Setra Power Meter Modbus Register Master List

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
General Device			**Data Format: Big-Endian (high byte first, or most significant byte first)**			
Device_Name	0	30000	Meter Name	String(80)	N/A	40
Modbus_Slave_Address	40	30040	Slave Node Address	uint32	0 if mode is Modbus TCP	2
Model_Number	42	30042	Model Number	String(16)	N/A	8
Serial_Number	50	30050	Serial Number	String(16)	N/A	8
Firmware_Revision	58	30058	Firmware Revision	String(16)	N/A	8
Date & Time	66	30066	Local Date and Time in ISO 8601 format	String(24)	2016-04-13T06:53:15-0400	12
Power_Factor_Sign_Convention	78	30078	Power Factor Sign Convention	uint32	1 = IEC 2 = IEEE	2
Demand_Window	80	30080	Demand Window	uint32	minutes	2
Billing_Cycle_Day	82	30082	Billing cycle day of month	uint32	N/A	2
Billing_Cycle_Time	84	30084	Billing cycle time (number of seconds since midnight)	uint32	seconds	2
Total Loads	86	30086	Total # of loads configured	uint32	N/A	2
(Reserved)	88	30088	Reserved for future use			12
Voltage Inputs			**Data Format: Big-Endian (high byte first, or most significant byte first)**			
id	100	30100	Voltage Identifier (one-based)	uint32	N/A	2
Vin1_Enabled	102	30102	Voltage Input 1 Enabled	uint32	0=disabled; 1=enabled	2
Vin1_L1-N	104	30104	Vin1 Line 1 Measured Line-Neutral Voltage (L1-N)	float32	volts	2
Vin1_L2-N	106	30106	Vin1 Line 2 Measured Line-Neutral Voltage (L2-N)	float32	volts	2
Vin1_L3-N	108	30108	Vin1 Line 3 Measured Line-Neutral Voltage (L3-N)	float32	volts	2
Vin1_L1-L2	110	30110	Vin1 Line 1 - Line 2 Measured Voltage (L1-L2)	float32	volts	2
Vin1_L2-L3	112	30112	Vin1 Line 2 - Line 3 Measured Voltage (L2-L3)	float32	volts	2
Vin1_L3-L1	114	30114	Vin1 Line 3 - Line 1 Measured Voltage (L3-L1)	float32	volts	2
Vin1_L1_PA	116	30116	Vin1 Line 1 Phase Angle	float32	degree	2
Vin1_L2_PA	118	30118	Vin1 Line 2 Phase Angle	float32	degree	2
Vin1_L3_PA	120	30120	Vin1 Line 3 Phase Angle	float32	degree	2
Vin1_L1_HD	122	30122	Vin1 Line 1 Harmonic Distortion	float32	percent	2
Vin1_L2_HD	124	30124	Vin1 Line 2 Harmonic Distortion	float32	percent	2
Vin1_L3_HD	126	30126	Vin1 Line 3 Harmonic Distortion	float32	percent	2
Vin1_Freq	128	30128	Vin1 Frequency	float32	hertz	2
Vin1_Expected_Line_Voltage	130	30130	Vin1 Expected Line Voltage	uint32	volts	2
Vin1_Service_Type	132	30132	Vin1 Service Type	uint32	0 = None 1 = 4-Wire wye 2 = 3-Wire delta 3= Reserved 4 = 3-Wire single phase (split phase) 5 = 2-Wire single phase	2
Vin1_Scaler	134	30134	Vin1 Scaler	uint32	volts	2
(Reserved)	136	30136	Reserved for future use			12
id	148	30148	Voltage Identifier (one-based)	uint32	N/A	2
Vin2_Enabled	150	30150	Voltage Input 2 Enabled	uint32	0=disabled; 1=enabled	2
Vin2_L1-N	152	30152	Vin2 Line 1 Measured Line-Neutral Voltage (L1-N)	float32	volts	2
Vin2_L2-N	154	30154	Vin2 Line 2 Measured Line-Neutral Voltage (L2-N)	float32	volts	2
Vin2_L3-N	156	30156	Vin2 Line 1 Measured Line-Neutral Voltage (L3-N)	float32	volts	2
Vin2_L1-L2	158	30158	Vin2 Line 1 - Line 2 Measured Voltage (L1-L2)	float32	volts	2
Vin2_L2-L3	160	30160	Vin2 Line 2 - Line 3 Measured Voltage (L2-L3)	float32	volts	2
Vin2_L3-L1	162	30162	Vin2 Line 3 - Line 1 Measured Voltage (L3-L1)	float32	volts	2
Vin2_L1_PA	164	30164	Vin2 Line 1 Phase Angle	float32	degree	2
Vin2_L2_PA	166	30166	Vin2 Line 2 Phase Angle	float32	degree	2
Vin2_L3_PA	168	30168	Vin2 Line 3 Phase Angle	float32	degree	2
Vin2_L1_HD	170	30170	Vin2 Line 1 Harmonic Distortion	float32	percent	2
Vin2_L2_HD	172	30172	Vin2 Line 2 Harmonic Distortion	float32	percent	2
Vin2_L3_HD	174	30174	Vin2 Line 3 Harmonic Distortion	float32	percent	2
Vin_2_Freq	176	30176	Vin2 Frequency	float32	hertz	2
Vin2_Expected_Line_Voltage	178	30178	Vin2 Expected Line Voltage	uint32	volts	2
Vin2_Service_Type	180	30180	Vin2 Service Type	uint32	0 = None 1 = 4-Wire wye 2 = 3-Wire delta 3= Reserved 4 = 3-Wire single phase (split phase) 5 = 2-Wire single phase	2
Vin2_Scaler	182	30182	Vin2 Scaler	uint32	volts	2
(Reserved)	184	30184	Reserved for future use			16

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Pulse I/O			**Data Format: Big-Endian (high byte first, or most significant byte first)**			
Pulse_in_1_Enabled	200	30200	Pulse Input 1 Enabled	uint32	N/A	2
Pulse_in_1_Type	202	30202	Pulse Input 1 Pulse Type	string(16)	N/A	8
Pulse_in_1_Units	210	30210	Pulse Input 1 Unit of Measure	string(16)	N/A	8
Pulse_in_1_Scaled_Value	218	30218	Pulse Input 1 Scaled Count	uint32	user configurable	2
Pulse_in_1_Scaler	220	30220	Pulse Input 1 Scaler	uint32	user configurable	2
Pulse_in_1_Raw_Count	222	30222	Pulse Input 1 Raw Count	uint32	user configurable	2
(Reserved)	224	30224	Reserved for future use			8
Pulse_in_2_Enabled	232	30232	Pulse Input 2 Enabled	uint32	N/A	2
Pulse_in_2_Type	234	30234	Pulse Input 2 Pulse Type	string(16)	N/A	8
Pulse_in_2_Units	242	30242	Pulse Input 2 Unit of Measure	string(16)	N/A	8
Pulse_in_2_Value	250	30250	Pulse Input 2 Scaled Count	uint32	user configurable	2
Pulse_in_2_Scaler	252	30252	Pulse Input 2 Scaler	uint32	user configurable	2
Pulse_in_2_Raw_Count	254	30254	Pulse Input 2 Raw Count	uint32	user configurable	2
(Reserved)	256	30256	Reserved for future use			8

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Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 1			**Data Format: Big-Endian (high byte first, or most significant byte first)**			
id	300	30300	Load Identifier (one-based)	uint32	NA	2
name	302	30302	Load name	string(40)	N/A	20
enabled	322	30322	Load enabled	uint32	N/A	2
total_kWh	324	30324	Total Net active (real) energy (import - export) across all phases	float32	kilo-watt-hour	2
total_kWh+	326	30326	Total active (real) engergy delivered (import) across all phases	float32	kilo-watt-hour	2
total_kWh-	328	30328	Total active (real) energy received (export) across all phases	float32	kilo-watt-hour	2
total_kvarh	330	30330	Total Net reactive energy (import - export) across all phases	float32	kilo-volt-amperes-reactive-hour	2
total_kvarh+	332	30332	Total reactive energy delivered (import, Q1+Q2) across all phases	float32	kilo-volt-amperes-reactive-hour	2
total_kvarh-	334	30334	Total reactive energy received (export, Q3+Q4) across all phases	float32	kilo-volt-amperes-reactive-hour	2
total_kvarh_Q1	336	30336	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilo-volt-amperes-reactive-hour	2
total_kvarh_Q2	338	30338	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilo-volt-amperes-reactive-hour	2
total_kvarh_Q3	340	30340	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilo-volt-amperes-reactive-hour	2
total_kvarh_Q4	342	30342	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilo-volt-amperes-reactive-hour	2
total_kVAh	344	30344	Total Net apparent energy (import - export) across all phases	float32	kilo-volt-amperes-hour	2
total_kVAh+	346	30346	Total apparent energy delivered (import) across all phases	float32	kilo-volt-amperes-reactive-hour	2
total_kVAh-	348	30348	Total apparent energy received (exported) across all phases	float32	kilo-volt-amperes-reactive-hour	2
vref	350	30350	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	352	30352	Total current across all phases in Amperes	float32	amperes	2
total_kW	354	30354	Total active (real) power across all phases	float32	kilowatts	2
total_kvar	356	30356	Total reactive power across all phases	float32	kilo-volt-amperes-reactive	2
total_kVA	358	30358	Total apparent power across all phases	float32	kilo-volt-amperes	2
total_aPF	360	30360	Toatl apparent power factor across all phases	float32	power-factor	2
total_dPF	362	30362	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	364	30364	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_KW	366	30366	Total present demand for active (real) power across all phases	float32	kilo-watt	2
total_PD_KW	368	30368	Total peak demand for active (real) power across all phases	float32	kilo-watt	2
(Reserved)	370	30370				30
Phase L1			**Data Format: Big-Endian (high byte first, or most significant byte first)**			
id	400	30400	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
enabled	402	30402	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	404	30404	Phase L1 Net active (real) energy (import - export)	float32	kilo-watt-hours	2
Phase_L1_kWh+	406	30406	Phase L1 active (real) engergy delivered (import)	float32	kilo-watt-hours	2
Phase_L1_kWh-	408	30408	Phase L1 active (real) energy received (export)	float32	kilo-watt-hours	2
Phase_L1_kvarh	410	30410	Phase L1 Net reactive energy (import - export)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L1_kvarh+	412	30412	Phase L1 reactive energy delivered (import, Q1+Q2)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L1_kvarh-	414	30414	Phase L1 reactive energy received (export, Q3+Q4)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L1_kvarh_Q1	416	30416	Phase L1 reactive energy accumulated in Quadrant 1	float32	kilo-volt-amperes-reactive-hours	2
Phase_L1_kvarh_Q2	418	30418	Phase L1 reactive energy accumulated in Quadrant 2	float32	kilo-volt-amperes-reactive-hours	2
Phase_L1_kvarh_Q3	420	30420	Phase L1 reactive energy accumulated in Quadrant 3	float32	kilo-volt-amperes-reactive-hours	2
Phase_L1_kvarh_Q4	422	30422	Phase L1 reactive energy accumulated in Quadrant 4	float32	kilo-volt-amperes-reactive-hours	2
Phase_L1_kVAh	424	30424	Phase L1 Net apparent energy (import - export)	float32	kilo-volt-amperes-hours	2
Phase_L1_kVAh+	426	30426	Phase L1 apparent energy delivered (import)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L1_kVAh-	428	30428	Phase L1 apparent energy received (exported)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L1_Amps	430	30430	Phase L1 Current in Amperes	float32	amperes	2
Phase_L1_kW	432	30432	Phase L1 Active (Real) Power	float32	kilowatts	2
Phase_L1_kvar	434	30434	Phase L1 Reactive Power	float32	kilo-volt-amperes-reactive	2
Phase_L1_kVA	436	30436	Phase L1 Apparent Power	float32	kilo-volt-amperes	2
Phase_L1_aPF	438	30438	Phase L1 Apparent Power Factor	float32	power-factor	2
Phase_L1_dPF	440	30440	Phase L1 Displacement (fundamental frequency) Power Factor	float32	power-factor	2
Phase_L1_THD	442	30442	Phase L1 Total Harmonic Distortion	float32	percent	2
Phase_L1_Demand_KW	444	30444	Phase L1 present demand for active (real) power	float32	kilowatts	2
Phase_L1_PD_KW	446	30446	Phase L1 peak demand for active (real) power	float32	kilowatts	2
Phase_L1_PC	448	30448	Phase L1 Polarity Correction	uint32	N/A	2
(Reserved)	450	30450				10
Phase L2			**Data Format: Big-Endian (high byte first, or most significant byte first)**			
id	460	30460	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
enabled	462	30462	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	464	30464	Phase L2 Net active (real) energy (import - export)	float32	kilo-watt-hours	2
Phase_L2_kWh+	466	30466	Phase L2 active (real) engergy delivered (import)	float32	kilo-watt-hours	2
Phase_L2_kWh-	468	30468	Phase L2 active (real) energy received (export)	float32	kilo-watt-hours	2
Phase_L2_kvarh	470	30470	Phase L2 Net reactive energy (import - export)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L2_kvarh+	472	30472	Phase L2 reactive energy delivered (import, Q1+Q2)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L2_kvarh-	474	30474	Phase L2 reactive energy received (export, Q3+Q4)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L2_kvarh_Q1	476	30476	Phase L2 reactive energy accumulated in Quadrant 1	float32	kilo-volt-amperes-reactive-hours	2
Phase_L2_kvarh_Q2	478	30478	Phase L2 reactive energy accumulated in Quadrant 2	float32	kilo-volt-amperes-reactive-hours	2
Phase_L2_kvarh_Q3	480	30480	Phase L2 reactive energy accumulated in Quadrant 3	float32	kilo-volt-amperes-reactive-hours	2
Phase_L2_kvarh_Q4	482	30482	Phase L2 reactive energy accumulated in Quadrant 4	float32	kilo-volt-amperes-reactive-hours	2
Phase_L2_kVAh	484	30484	Phase L2 Net apparent energy (import - export)	float32	kilo-volt-amperes-hours	2
Phase_L2_kVAh+	486	30486	Phase L2 apparent energy delivered (import)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L2_kVAh-	488	30488	Phase L2 apparent energy received (exported)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L2_Amps	490	30490	Phase L2 Current in Amperes	float32	amperes	2
Phase_L2_kW	492	30492	Phase L2 Active (Real) Power	float32	kilowatts	2
Phase_L2_kvar	494	30494	Phase L2 Reactive Power	float32	kilo-volt-amperes-reactive	2
Phase_L2_kVA	496	30496	Phase L2 Apparent Power	float32	kilo-volt-amperes	2
Phase_L2_aPF	498	30498	Phase L2 Apparent Power Factor	float32	power-factor	2
Phase_L2_dPF	500	30500	Phase L2 Displacement (fundamental frequency) Power Factor	float32	power-factor	2
Phase_L2_THD	502	30502	Phase L2 Total Harmonic Distortion	float32	percent	2
Phase_L2_Demand_KW	504	30504	Phase L2 present demand for active (real) power	float32	kilowatts	2
Phase_L2_PD_KW	506	30506	Phase L2 peak demand for active (real) power	float32	kilowatts	2
Phase_L2_PC	508	30508	Phase L2 Polarity Correction	uint32	N/A	2
(Reserved)	510	30510				10
Phase L3			**Data Format: Big-Endian (high byte first, or most significant byte first)**			
id	520	30520	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
enabled	522	30522	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	524	30524	Phase L3 Net active (real) energy (import - export)	float32	kilo-watt-hours	2
Phase_L3_kWh+	526	30526	Phase L3 active (real) engergy delivered (import)	float32	kilo-watt-hours	2
Phase_L3_kWh-	528	30528	Phase L3 active (real) energy received (export)	float32	kilo-watt-hours	2
Phase_L3_kvarh	530	30530	Phase L3 Net reactive energy (import - export)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L3_kvarh+	532	30532	Phase L3 reactive energy delivered (import, Q1+Q2)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L3_kvarh-	534	30534	Phase L3 reactive energy received (export, Q3+Q4)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L3_kvarh_Q1	536	30536	Phase L3 reactive energy accumulated in Quadrant 1	float32	kilo-volt-amperes-reactive-hours	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	538	30538	Phase L3 reactive energy accumulated in Quadrant 2	float32	kilo-volt-amperes-reactive-hours	2
Phase_L3_kvarh_Q3	540	30540	Phase L3 reactive energy accumulated in Quadrant 3	float32	kilo-volt-amperes-reactive-hours	2
Phase_L3_kvarh_Q4	542	30542	Phase L3 reactive energy accumulated in Quadrant 4	float32	kilo-volt-amperes-reactive-hours	2
Phase_L3_kVAh	544	30544	Phase L3 Net apparent energy (import - export)	float32	kilo-volt-amperes-hours	2
Phase_L3_kVAh+	546	30546	Phase L3 apparent energy delivered (import)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L3_kVAh-	548	30548	Phase L3 apparent energy received (exported)	float32	kilo-volt-amperes-reactive-hours	2
Phase_L3_Amps	550	30550	Phase L3 Current in Amperes	float32	amperes	2
Phase_L3_kW	552	30552	Phase L3 Active (Real) Power	float32	kilowatts	2
Phase_L3_kvar	554	30554	Phase L3 Reactive Power	float32	kilo-volt-amperes-reactive	2
Phase_L3_kVA	556	30556	Phase L3 Apparent Power	float32	kilo-volt-amperes	2
Phase_L3_aPF	558	30558	Phase L3 Apparent Power Factor	float32	power-factor	2
Phase_L3_dPF	560	30560	Phase L3 Displacement (fundamental frequency) Power Factor	float32	power-factor	2
Phase_L3_THD	562	30562	Phase L3 Total Harmonic Distortion	float32	percent	2
Phase_L3_Demand_KW	564	30564	Phase L3 present demand for active (real) power	float32	kilowatts	2
Phase_L3_PD_KW	566	30566	Phase L3 peak demand for active (real) power	float32	kilowatts	2
Phase_L3_PC	568	30568	Phase L3 Polarity Correction	uin32	N/A	2
(Reserved)	570	30570				10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	580	30580	Load Identifier (one-based)	uint32	N/A	2
name	582	30582	Load name	string(40)	N/A	20
enabled	602	30602	Load enabled	uint32	N/A	2
total_kWh	604	30604	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	606	30606	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	608	30608	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	610	30610	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	612	30612	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	614	30614	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	616	30616	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	618	30618	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	620	30620	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	622	30622	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	624	30624	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	626	30626	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	628	30628	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	630	30630	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	632	30632	Total current across all phases in Amperes	float32	amperes	2
total_kW	634	30634	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	636	30636	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	638	30638	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	640	30640	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	642	30642	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	644	30644	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	646	30646	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	648	30648	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	650	30650				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	680	30680	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	682	30682	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	684	30684	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	686	30686	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	688	30688	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	690	30690	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	692	30692	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	694	30694	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	696	30696	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	698	30698	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	700	30700	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	702	30702	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	704	30704	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	706	30706	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	708	30708	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	710	30710	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	712	30712	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	714	30714	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	716	30716	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	718	30718	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	720	30720	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	722	30722	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	724	30724	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	726	30726	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	728	30728	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	730	30730	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	740	30740	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	742	30742	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	744	30744	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	746	30746	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	748	30748	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	750	30750	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	752	30752	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	754	30754	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	756	30756	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	758	30758	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	760	30760	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	762	30762	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	764	30764	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	766	30766	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	768	30768	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	770	30770	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	772	30772	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	774	30774	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	776	30776	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	778	30778	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	780	30780	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	782	30782	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	784	30784	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	786	30786	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	788	30788	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	790	30790	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	800	30800	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	802	30802	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	804	30804	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	806	30806	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	808	30808	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	810	30810	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	812	30812	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	814	30814	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	816	30816	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	818	30818	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	820	30820	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	822	30822	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	824	30824	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	826	30826	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	828	30828	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	830	30830	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	832	30832	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	834	30834	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	836	30836	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	838	30838	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	840	30840	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	842	30842	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	844	30844	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	846	30846	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	848	30848	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	850	30850	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	860	30860	Load Identifier (one-based)	uint32	N/A	2
name	862	30862	Load name	string(40)	N/A	20
enabled	882	30882	Load enabled	uint32	N/A	2
total_kWh	884	30884	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	886	30886	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	888	30888	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	890	30890	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	892	30892	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	894	30894	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	896	30896	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	898	30898	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	900	30900	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	902	30902	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	904	30904	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	906	30906	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	908	30908	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	910	30910	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	912	30912	Total current across all phases in Amperes	float32	amperes	2
total_kW	914	30914	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	916	30916	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	918	30918	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	920	30920	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	922	30922	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	924	30924	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	926	30926	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	928	30928	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	930	30930				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	960	30960	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	962	30962	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	964	30964	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	966	30966	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	968	30968	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	970	30970	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	972	30972	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	974	30974	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	976	30976	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	978	30978	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	980	30980	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	982	30982	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	984	30984	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	986	30986	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	988	30988	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	990	30990	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	992	30992	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	994	30994	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	996	30996	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	998	30998	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	1000	31000	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	1002	31002	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	1004	31004	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	1006	31006	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	1008	31008	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	1010	31010	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	1020	31020	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	1022	31022	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	1024	31024	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	1026	31026	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	1028	31028	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	1030	31030	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	1032	31032	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	1034	31034	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	1036	31036	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	1038	31038	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	1040	31040	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	1042	31042	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	1044	31044	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	1046	31046	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	1048	31048	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	1050	31050	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	1052	31052	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	1054	31054	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	1056	31056	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	1058	31058	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	1060	31060	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	1062	31062	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	1064	31064	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	1066	31066	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	1068	31068	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	1070	31070	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	1080	31080	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	1082	31082	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	1084	31084	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	1086	31086	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	1088	31088	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	1090	31090	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	1092	31092	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	1094	31094	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	1096	31096	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	1098	31098	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	1100	31100	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	1102	31102	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	1104	31104	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	1106	31106	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	1108	31108	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	1110	31110	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	1112	31112	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	1114	31114	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	1116	31116	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	1118	31118	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	1120	31120	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	1122	31122	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	1124	31124	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	1126	31126	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	1128	31128	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	1130	31130	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 4			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	1140	31140	Load Identifier (one-based)	uint32	N/A	2
name	1142	31142	Load name	string(40)	N/A	20
enabled	1162	31162	Load enabled	uint32	N/A	2
total_kWh	1164	31164	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	1166	31166	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	1168	31168	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	1170	31170	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	1172	31172	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	1174	31174	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	1176	31176	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	1178	31178	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	1180	31180	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	1182	31182	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	1184	31184	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	1186	31186	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	1188	31188	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	1190	31190	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	1192	31192	Total current across all phases in Amperes	float32	amperes	2
total_kW	1194	31194	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	1196	31196	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	1198	31198	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	1200	31200	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	1202	31202	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	1204	31204	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	1206	31206	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	1208	31208	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	1210	31210				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	1240	31240	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	1242	31242	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	1244	31244	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	1246	31246	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	1248	31248	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	1250	31250	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	1252	31252	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	1254	31254	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	1256	31256	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	1258	31258	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	1260	31260	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	1262	31262	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	1264	31264	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	1266	31266	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	1268	31268	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	1270	31270	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	1272	31272	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	1274	31274	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	1276	31276	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	1278	31278	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	1280	31280	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	1282	31282	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	1284	31284	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	1286	31286	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	1288	31288	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	1290	31290	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	1300	31300	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	1302	31302	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	1304	31304	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	1306	31306	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	1308	31308	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	1310	31310	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	1312	31312	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	1314	31314	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	1316	31316	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	1318	31318	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	1320	31320	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	1322	31322	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	1324	31324	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	1326	31326	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	1328	31328	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	1330	31330	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	1332	31332	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	1334	31334	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	1336	31336	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	1338	31338	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	1340	31340	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	1342	31342	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	1344	31344	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	1346	31346	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	1348	31348	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	1350	31350	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	1360	31360	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	1362	31362	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	1364	31364	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	1366	31366	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	1368	31368	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	1370	31370	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	1372	31372	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	1374	31374	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	1376	31376	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	1378	31378	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	1380	31380	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	1382	31382	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	1384	31384	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	1386	31386	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	1388	31388	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	1390	31390	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	1392	31392	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	1394	31394	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	1396	31396	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	1398	31398	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	1400	31400	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	1402	31402	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	1404	31404	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	1406	31406	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	1408	31408	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	1410	31410	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 5			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	1420	31420	Load Identifier (one-based)	uint32	N/A	2
name	1422	31422	Load name	string(40)	N/A	20
enabled	1442	31442	Load enabled	uint32	N/A	2
total_kWh	1444	31444	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	1446	31446	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	1448	31448	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	1450	31450	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	1452	31452	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	1454	31454	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	1456	31456	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	1458	31458	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	1460	31460	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	1462	31462	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	1464	31464	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	1466	31466	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	1468	31468	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	1470	31470	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	1472	31472	Total current across all phases in Amperes	float32	amperes	2
total_kW	1474	31474	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	1476	31476	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	1478	31478	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	1480	31480	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	1482	31482	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	1484	31484	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	1486	31486	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	1488	31488	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	1490	31490				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	1520	31520	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	1522	31522	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	1524	31524	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	1526	31526	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	1528	31528	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	1530	31530	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	1532	31532	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	1534	31534	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	1536	31536	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	1538	31538	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	1540	31540	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	1542	31542	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	1544	31544	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	1546	31546	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	1548	31548	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	1550	31550	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	1552	31552	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	1554	31554	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	1556	31556	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	1558	31558	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	1560	31560	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	1562	31562	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	1564	31564	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	1566	31566	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	1568	31568	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	1570	31570	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	1580	31580	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	1582	31582	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	1584	31584	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	1586	31586	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	1588	31588	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	1590	31590	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	1592	31592	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	1594	31594	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	1596	31596	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	1598	31598	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	1600	31600	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	1602	31602	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	1604	31604	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	1606	31606	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	1608	31608	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	1610	31610	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	1612	31612	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	1614	31614	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	1616	31616	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	1618	31618	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	1620	31620	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	1622	31622	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	1624	31624	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	1626	31626	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	1628	31628	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	1630	31630	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	1640	31640	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	1642	31642	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	1644	31644	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	1646	31646	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	1648	31648	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	1650	31650	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	1652	31652	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	1654	31654	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	1656	31656	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	1658	31658	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	1660	31660	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	1662	31662	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	1664	31664	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	1666	31666	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	1668	31668	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	1670	31670	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	1672	31672	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	1674	31674	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	1676	31676	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	1678	31678	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	1680	31680	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	1682	31682	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	1684	31684	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	1686	31686	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	1688	31688	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	1690	31690	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 6			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	1700	31700	Load Identifier (one-based)	uint32	N/A	2
name	1702	31702	Load name	string(40)	N/A	20
enabled	1722	31722	Load enabled	uint32	N/A	2
total_kWh	1724	31724	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	1726	31726	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	1728	31728	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	1730	31730	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	1732	31732	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	1734	31734	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	1736	31736	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	1738	31738	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	1740	31740	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	1742	31742	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	1744	31744	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	1746	31746	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	1748	31748	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	1750	31750	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	1752	31752	Total current across all phases in Amperes	float32	amperes	2
total_kW	1754	31754	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	1756	31756	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	1758	31758	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	1760	31760	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	1762	31762	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	1764	31764	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	1766	31766	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	1768	31768	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	1770	31770				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	1800	31800	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	1802	31802	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	1804	31804	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	1806	31806	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	1808	31808	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	1810	31810	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	1812	31812	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	1814	31814	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	1816	31816	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	1818	31818	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	1820	31820	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	1822	31822	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	1824	31824	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	1826	31826	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	1828	31828	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	1830	31830	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	1832	31832	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	1834	31834	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	1836	31836	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	1838	31838	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	1840	31840	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	1842	31842	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	1844	31844	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	1846	31846	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	1848	31848	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	1850	31850	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	1860	31860	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	1862	31862	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	1864	31864	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	1866	31866	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	1868	31868	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	1870	31870	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	1872	31872	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	1874	31874	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	1876	31876	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	1878	31878	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	1880	31880	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	1882	31882	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	1884	31884	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	1886	31886	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	1888	31888	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	1890	31890	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	1892	31892	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	1894	31894	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	1896	31896	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	1898	31898	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	1900	31900	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	1902	31902	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	1904	31904	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	1906	31906	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	1908	31908	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	1910	31910	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	1920	31920	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	1922	31922	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	1924	31924	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	1926	31926	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	1928	31928	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	1930	31930	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	1932	31932	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	1934	31934	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	1936	31936	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	1938	31938	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	1940	31940	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	1942	31942	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	1944	31944	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	1946	31946	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	1948	31948	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	1950	31950	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	1952	31952	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	1954	31954	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	1956	31956	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	1958	31958	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	1960	31960	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	1962	31962	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	1964	31964	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	1966	31966	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	1968	31968	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	1970	31970	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 7			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	1980	31980	Load Identifier (one-based)	uint32	N/A	2
name	1982	31982	Load name	string(40)	N/A	20
enabled	2002	32002	Load enabled	uint32	N/A	2
total_kWh	2004	32004	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	2006	32006	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	2008	32008	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	2010	32010	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	2012	32012	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	2014	32014	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	2016	32016	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	2018	32018	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	2020	32020	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	2022	32022	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	2024	32024	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	2026	32026	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	2028	32028	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	2030	32030	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	2032	32032	Total current across all phases in Amperes	float32	amperes	2
total_kW	2034	32034	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	2036	32036	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	2038	32038	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	2040	32040	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	2042	32042	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	2044	32044	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	2046	32046	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	2048	32048	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	2050	32050				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	2080	32080	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	2082	32082	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	2084	32084	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	2086	32086	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	2088	32088	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	2090	32090	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	2092	32092	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	2094	32094	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	2096	32096	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	2098	32098	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	2100	32100	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	2102	32102	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	2104	32104	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	2106	32106	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	2108	32108	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	2110	32110	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	2112	32112	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	2114	32114	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	2116	32116	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	2118	32118	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	2120	32120	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	2122	32122	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	2124	32124	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	2126	32126	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	2128	32128	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	2130	32130	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	2140	32140	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	2142	32142	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	2144	32144	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	2146	32146	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	2148	32148	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	2150	32150	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	2152	32152	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	2154	32154	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	2156	32156	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	2158	32158	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	2160	32160	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	2162	32162	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	2164	32164	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	2166	32166	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	2168	32168	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	2170	32170	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	2172	32172	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	2174	32174	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	2176	32176	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	2178	32178	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	2180	32180	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	2182	32182	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	2184	32184	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	2186	32186	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	2188	32188	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	2190	32190	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	2200	32200	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	2202	32202	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	2204	32204	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	2206	32206	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	2208	32208	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	2210	32210	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	2212	32212	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	2214	32214	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	2216	32216	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	2218	32218	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	2220	32220	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	2222	32222	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	2224	32224	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	2226	32226	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	2228	32228	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	2230	32230	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	2232	32232	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	2234	32234	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	2236	32236	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	2238	32238	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	2240	32240	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	2242	32242	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	2244	32244	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	2246	32246	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	2248	32248	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	2250	32250	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 8			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	2260	32260	Load Identifier (one-based)	uint32	N/A	2
name	2262	32262	Load name	string(40)	N/A	20
enabled	2282	32282	Load enabled	uint32	N/A	2
total_kWh	2284	32284	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	2286	32286	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	2288	32288	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	2290	32290	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	2292	32292	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	2294	32294	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	2296	32296	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	2298	32298	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	2300	32300	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	2302	32302	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	2304	32304	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	2306	32306	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	2308	32308	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	2310	32310	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	2312	32312	Total current across all phases in Amperes	float32	amperes	2
total_kW	2314	32314	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	2316	32316	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	2318	32318	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	2320	32320	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	2322	32322	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	2324	32324	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	2326	32326	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	2328	32328	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	2330	32330				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	2360	32360	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	2362	32362	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	2364	32364	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	2366	32366	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	2368	32368	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	2370	32370	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	2372	32372	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	2374	32374	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	2376	32376	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	2378	32378	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	2380	32380	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	2382	32382	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	2384	32384	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	2386	32386	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	2388	32388	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	2390	32390	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	2392	32392	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	2394	32394	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	2396	32396	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	2398	32398	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	2400	32400	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	2402	32402	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	2404	32404	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	2406	32406	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	2408	32408	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	2410	32410	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	2420	32420	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	2422	32422	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	2424	32424	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	2426	32426	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	2428	32428	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	2430	32430	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	2432	32432	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	2434	32434	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	2436	32436	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	2438	32438	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	2440	32440	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	2442	32442	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	2444	32444	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	2446	32446	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	2448	32448	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	2450	32450	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	2452	32452	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	2454	32454	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	2456	32456	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	2458	32458	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	2460	32460	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	2462	32462	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	2464	32464	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	2466	32466	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	2468	32468	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	2470	32470	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	2480	32480	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	2482	32482	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	2484	32484	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	2486	32486	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	2488	32488	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	2490	32490	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	2492	32492	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	2494	32494	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	2496	32496	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	2498	32498	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	2500	32500	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	2502	32502	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	2504	32504	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	2506	32506	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	2508	32508	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	2510	32510	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	2512	32512	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	2514	32514	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	2516	32516	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	2518	32518	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	2520	32520	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	2522	32522	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	2524	32524	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	2526	32526	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	2528	32528	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	2530	32530	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 9			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	2540	32540	Load Identifier (one-based)	uint32	N/A	2
name	2542	32542	Load name	string(40)	N/A	20
enabled	2562	32562	Load enabled	uint32	N/A	2
total_kWh	2564	32564	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	2566	32566	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	2568	32568	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	2570	32570	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	2572	32572	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	2574	32574	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	2576	32576	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	2578	32578	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	2580	32580	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	2582	32582	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	2584	32584	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	2586	32586	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	2588	32588	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	2590	32590	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	2592	32592	Total current across all phases in Amperes	float32	amperes	2
total_kW	2594	32594	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	2596	32596	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	2598	32598	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	2600	32600	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	2602	32602	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	2604	32604	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	2606	32606	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	2608	32608	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	2610	32610				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	2640	32640	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	2642	32642	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	2644	32644	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	2646	32646	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	2648	32648	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	2650	32650	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	2652	32652	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	2654	32654	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	2656	32656	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	2658	32658	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	2660	32660	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	2662	32662	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	2664	32664	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	2666	32666	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	2668	32668	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	2670	32670	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	2672	32672	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	2674	32674	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	2676	32676	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	2678	32678	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	2680	32680	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	2682	32682	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	2684	32684	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	2686	32686	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	2688	32688	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	2690	32690	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	2700	32700	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	2702	32702	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	2704	32704	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	2706	32706	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	2708	32708	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	2710	32710	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	2712	32712	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	2714	32714	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	2716	32716	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	2718	32718	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	2720	32720	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	2722	32722	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	2724	32724	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	2726	32726	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	2728	32728	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	2730	32730	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	2732	32732	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	2734	32734	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	2736	32736	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	2738	32738	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	2740	32740	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	2742	32742	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	2744	32744	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	2746	32746	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	2748	32748	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	2750	32750	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	2760	32760	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	2762	32762	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	2764	32764	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	2766	32766	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	2768	32768	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	2770	32770	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	2772	32772	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	2774	32774	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	2776	32776	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	2778	32778	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	2780	32780	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	2782	32782	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	2784	32784	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	2786	32786	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	2788	32788	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	2790	32790	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	2792	32792	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	2794	32794	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	2796	32796	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	2798	32798	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	2800	32800	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	2802	32802	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	2804	32804	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	2806	32806	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	2808	32808	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	2810	32810	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 10			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	2820	32820	Load Identifier (one-based)	uint32	N/A	2
name	2822	32822	Load name	string(40)	N/A	20
enabled	2842	32842	Load enabled	uint32	N/A	2
total_kWh	2844	32844	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	2846	32846	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	2848	32848	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	2850	32850	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	2852	32852	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	2854	32854	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	2856	32856	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	2858	32858	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	2860	32860	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	2862	32862	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	2864	32864	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	2866	32866	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	2868	32868	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	2870	32870	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	2872	32872	Total current across all phases in Amperes	float32	amperes	2
total_kW	2874	32874	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	2876	32876	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	2878	32878	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	2880	32880	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	2882	32882	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	2884	32884	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	2886	32886	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	2888	32888	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	2890	32890				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	2920	32920	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	2922	32922	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	2924	32924	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	2926	32926	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	2928	32928	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	2930	32930	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	2932	32932	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	2934	32934	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	2936	32936	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	2938	32938	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	2940	32940	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	2942	32942	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	2944	32944	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	2946	32946	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	2948	32948	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	2950	32950	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	2952	32952	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	2954	32954	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	2956	32956	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	2958	32958	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	2960	32960	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	2962	32962	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	2964	32964	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	2966	32966	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	2968	32968	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	2970	32970	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	2980	32980	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	2982	32982	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	2984	32984	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	2986	32986	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	2988	32988	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	2990	32990	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	2992	32992	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	2994	32994	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	2996	32996	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	2998	32998	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	3000	33000	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	3002	33002	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	3004	33004	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	3006	33006	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	3008	33008	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	3010	33010	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	3012	33012	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	3014	33014	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	3016	33016	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	3018	33018	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	3020	33020	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	3022	33022	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	3024	33024	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	3026	33026	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	3028	33028	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	3030	33030	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	3040	33040	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	3042	33042	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	3044	33044	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	3046	33046	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	3048	33048	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	3050	33050	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	3052	33052	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	3054	33054	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	3056	33056	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	3058	33058	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	3060	33060	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	3062	33062	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	3064	33064	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	3066	33066	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	3068	33068	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	3070	33070	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	3072	33072	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	3074	33074	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	3076	33076	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	3078	33078	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	3080	33080	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	3082	33082	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	3084	33084	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	3086	33086	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	3088	33088	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	3090	33090	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 11			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	3100	33100	Load Identifier (one-based)	uint32	N/A	2
name	3102	33102	Load name	string(40)	N/A	20
enabled	3122	33122	Load enabled	uint32	N/A	2
total_kWh	3124	33124	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	3126	33126	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	3128	33128	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	3130	33130	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	3132	33132	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	3134	33134	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	3136	33136	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	3138	33138	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	3140	33140	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	3142	33142	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	3144	33144	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	3146	33146	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	3148	33148	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	3150	33150	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	3152	33152	Total current across all phases in Amperes	float32	amperes	2
total_kW	3154	33154	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	3156	33156	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	3158	33158	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	3160	33160	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	3162	33162	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	3164	33164	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	3166	33166	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	3168	33168	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	3170	33170				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	3200	33200	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	3202	33202	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	3204	33204	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	3206	33206	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	3208	33208	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	3210	33210	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	3212	33212	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	3214	33214	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	3216	33216	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	3218	33218	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	3220	33220	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	3222	33222	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	3224	33224	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	3226	33226	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	3228	33228	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	3230	33230	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	3232	33232	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	3234	33234	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	3236	33236	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	3238	33238	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	3240	33240	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	3242	33242	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	3244	33244	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	3246	33246	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	3248	33248	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	3250	33250	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	3260	33260	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	3262	33262	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	3264	33264	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	3266	33266	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	3268	33268	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	3270	33270	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	3272	33272	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	3274	33274	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	3276	33276	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	3278	33278	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	3280	33280	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	3282	33282	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	3284	33284	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	3286	33286	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	3288	33288	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	3290	33290	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	3292	33292	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	3294	33294	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	3296	33296	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	3298	33298	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	3300	33300	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	3302	33302	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	3304	33304	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	3306	33306	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	3308	33308	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	3310	33310	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	3320	33320	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	3322	33322	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	3324	33324	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	3326	33326	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	3328	33328	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	3330	33330	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	3332	33332	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	3334	33334	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	3336	33336	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	3338	33338	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	3340	33340	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	3342	33342	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	3344	33344	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	3346	33346	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	3348	33348	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	3350	33350	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	3352	33352	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	3354	33354	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	3356	33356	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	3358	33358	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	3360	33360	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	3362	33362	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	3364	33364	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	3366	33366	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	3368	33368	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	3370	33370	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 12			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	3380	33380	Load Identifier (one-based)	uint32	N/A	2
name	3382	33382	Load name	string(40)	N/A	20
enabled	3402	33402	Load enabled	uint32	N/A	2
total_kWh	3404	33404	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	3406	33406	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	3408	33408	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	3410	33410	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	3412	33412	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	3414	33414	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	3416	33416	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	3418	33418	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	3420	33420	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	3422	33422	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	3424	33424	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	3426	33426	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	3428	33428	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	3430	33430	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	3432	33432	Total current across all phases in Amperes	float32	amperes	2
total_kW	3434	33434	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	3436	33436	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	3438	33438	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	3440	33440	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	3442	33442	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	3444	33444	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	3446	33446	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	3448	33448	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	3450	33450				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	3480	33480	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	3482	33482	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	3484	33484	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	3486	33486	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	3488	33488	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	3490	33490	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	3492	33492	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	3494	33494	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	3496	33496	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	3498	33498	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	3500	33500	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	3502	33502	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	3504	33504	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	3506	33506	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	3508	33508	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	3510	33510	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	3512	33512	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	3514	33514	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	3516	33516	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	3518	33518	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	3520	33520	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	3522	33522	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	3524	33524	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	3526	33526	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	3528	33528	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	3530	33530	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	3540	33540	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	3542	33542	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	3544	33544	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	3546	33546	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	3548	33548	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	3550	33550	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	3552	33552	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	3554	33554	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	3556	33556	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	3558	33558	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	3560	33560	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	3562	33562	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	3564	33564	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	3566	33566	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	3568	33568	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	3570	33570	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	3572	33572	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	3574	33574	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	3576	33576	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	3578	33578	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	3580	33580	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	3582	33582	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	3584	33584	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	3586	33586	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	3588	33588	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	3590	33590	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	3600	33600	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	3602	33602	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	3604	33604	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	3606	33606	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	3608	33608	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	3610	33610	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	3612	33612	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	3614	33614	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	3616	33616	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	3618	33618	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	3620	33620	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	3622	33622	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	3624	33624	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	3626	33626	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	3628	33628	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	3630	33630	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	3632	33632	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	3634	33634	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	3636	33636	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	3638	33638	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	3640	33640	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	3642	33642	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	3644	33644	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	3646	33646	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	3648	33648	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	3650	33650	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 13			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	3660	33660	Load Identifier (one-based)	uint32	N/A	2
name	3662	33662	Load name	string(40)	N/A	20
enabled	3682	33682	Load enabled	uint32	N/A	2
total_kWh	3684	33684	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	3686	33686	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	3688	33688	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	3690	33690	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	3692	33692	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	3694	33694	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	3696	33696	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	3698	33698	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	3700	33700	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	3702	33702	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	3704	33704	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	3706	33706	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	3708	33708	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	3710	33710	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	3712	33712	Total current across all phases in Amperes	float32	amperes	2
total_kW	3714	33714	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	3716	33716	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	3718	33718	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	3720	33720	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	3722	33722	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	3724	33724	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	3726	33726	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	3728	33728	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	3730	33730				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	3760	33760	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	3762	33762	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	3764	33764	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	3766	33766	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	3768	33768	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	3770	33770	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	3772	33772	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	3774	33774	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	3776	33776	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	3778	33778	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	3780	33780	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	3782	33782	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	3784	33784	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	3786	33786	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	3788	33788	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	3790	33790	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	3792	33792	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	3794	33794	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	3796	33796	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	3798	33798	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	3800	33800	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	3802	33802	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	3804	33804	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	3806	33806	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	3808	33808	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	3810	33810	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	3820	33820	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	3822	33822	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	3824	33824	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	3826	33826	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	3828	33828	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	3830	33830	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	3832	33832	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	3834	33834	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	3836	33836	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	3838	33838	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	3840	33840	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	3842	33842	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	3844	33844	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	3846	33846	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	3848	33848	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	3850	33850	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	3852	33852	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	3854	33854	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	3856	33856	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	3858	33858	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	3860	33860	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	3862	33862	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	3864	33864	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	3866	33866	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	3868	33868	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	3870	33870	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	3880	33880	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	3882	33882	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	3884	33884	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	3886	33886	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	3888	33888	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	3890	33890	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	3892	33892	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	3894	33894	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	3896	33896	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	3898	33898	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	3900	33900	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	3902	33902	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	3904	33904	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	3906	33906	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	3908	33908	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	3910	33910	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	3912	33912	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	3914	33914	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	3916	33916	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	3918	33918	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	3920	33920	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	3922	33922	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	3924	33924	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	3926	33926	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	3928	33928	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	3930	33930	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 14			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	3940	33940	Load Identifier (one-based)	uint32	N/A	2
name	3942	33942	Load name	string(40)	N/A	20
enabled	3962	33962	Load enabled	uint32	N/A	2
total_kWh	3964	33964	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	3966	33966	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	3968	33968	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	3970	33970	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	3972	33972	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	3974	33974	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	3976	33976	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	3978	33978	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	3980	33980	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	3982	33982	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	3984	33984	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	3986	33986	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	3988	33988	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	3990	33990	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	3992	33992	Total current across all phases in Amperes	float32	amperes	2
total_kW	3994	33994	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	3996	33996	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	3998	33998	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	4000	34000	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	4002	34002	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	4004	34004	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	4006	34006	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	4008	34008	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	4010	34010				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	4040	34040	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	4042	34042	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	4044	34044	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	4046	34046	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	4048	34048	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	4050	34050	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	4052	34052	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	4054	34054	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	4056	34056	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	4058	34058	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	4060	34060	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	4062	34062	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	4064	34064	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	4066	34066	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	4068	34068	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	4070	34070	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	4072	34072	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	4074	34074	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	4076	34076	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	4078	34078	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	4080	34080	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	4082	34082	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	4084	34084	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	4086	34086	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	4088	34088	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	4090	34090	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	4100	34100	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	4102	34102	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	4104	34104	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	4106	34106	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	4108	34108	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	4110	34110	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	4112	34112	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	4114	34114	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	4116	34116	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	4118	34118	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	4120	34120	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	4122	34122	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	4124	34124	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	4126	34126	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	4128	34128	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	4130	34130	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	4132	34132	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	4134	34134	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	4136	34136	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	4138	34138	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	4140	34140	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	4142	34142	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	4144	34144	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	4146	34146	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	4148	34148	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	4150	34150	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	4160	34160	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	4162	34162	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	4164	34164	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	4166	34166	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	4168	34168	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	4170	34170	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	4172	34172	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	4174	34174	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	4176	34176	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	4178	34178	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	4180	34180	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	4182	34182	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	4184	34184	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	4186	34186	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	4188	34188	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	4190	34190	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	4192	34192	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	4194	34194	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	4196	34196	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	4198	34198	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	4200	34200	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	4202	34202	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	4204	34204	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	4206	34206	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	4208	34208	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	4210	34210	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 15			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	4220	34220	Load Identifier (one-based)	uint32	N/A	2
name	4222	34222	Load name	string(40)	N/A	20
enabled	4242	34242	Load enabled	uint32	N/A	2
total_kWh	4244	34244	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	4246	34246	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	4248	34248	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	4250	34250	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	4252	34252	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	4254	34254	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	4256	34256	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	4258	34258	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	4260	34260	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	4262	34262	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	4264	34264	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	4266	34266	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	4268	34268	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	4270	34270	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	4272	34272	Total current across all phases in Amperes	float32	amperes	2
total_kW	4274	34274	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	4276	34276	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	4278	34278	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	4280	34280	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	4282	34282	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	4284	34284	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	4286	34286	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	4288	34288	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	4290	34290				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	4320	34320	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	4322	34322	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	4324	34324	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	4326	34326	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	4328	34328	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	4330	34330	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	4332	34332	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	4334	34334	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	4336	34336	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	4338	34338	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	4340	34340	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	4342	34342	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	4344	34344	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	4346	34346	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	4348	34348	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	4350	34350	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	4352	34352	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	4354	34354	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	4356	34356	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	4358	34358	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	4360	34360	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	4362	34362	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	4364	34364	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	4366	34366	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	4368	34368	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	4370	34370	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	4380	34380	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	4382	34382	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	4384	34384	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	4386	34386	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	4388	34388	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	4390	34390	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	4392	34392	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	4394	34394	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	4396	34396	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	4398	34398	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	4400	34400	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	4402	34402	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	4404	34404	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	4406	34406	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	4408	34408	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	4410	34410	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	4412	34412	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	4414	34414	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	4416	34416	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	4418	34418	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	4420	34420	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	4422	34422	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	4424	34424	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	4426	34426	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	4428	34428	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	4430	34430	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	4440	34440	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	4442	34442	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	4444	34444	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	4446	34446	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	4448	34448	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	4450	34450	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	4452	34452	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	4454	34454	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	4456	34456	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	4458	34458	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	4460	34460	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	4462	34462	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	4464	34464	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	4466	34466	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	4468	34468	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	4470	34470	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	4472	34472	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	4474	34474	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	4476	34476	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	4478	34478	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	4480	34480	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	4482	34482	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	4484	34484	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	4486	34486	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	4488	34488	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	4490	34490	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 16			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	4500	34500	Load Identifier (one-based)	uint32	N/A	2
name	4502	34502	Load name	string(40)	N/A	20
enabled	4522	34522	Load enabled	uint32	N/A	2
total_kWh	4524	34524	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	4526	34526	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	4528	34528	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	4530	34530	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	4532	34532	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	4534	34534	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	4536	34536	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	4538	34538	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	4540	34540	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	4542	34542	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	4544	34544	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	4546	34546	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	4548	34548	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	4550	34550	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	4552	34552	Total current across all phases in Amperes	float32	amperes	2
total_kW	4554	34554	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	4556	34556	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	4558	34558	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	4560	34560	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	4562	34562	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	4564	34564	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	4566	34566	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	4568	34568	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	4570	34570				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	4600	34600	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	4602	34602	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	4604	34604	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	4606	34606	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	4608	34608	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	4610	34610	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	4612	34612	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	4614	34614	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	4616	34616	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	4618	34618	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	4620	34620	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	4622	34622	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	4624	34624	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	4626	34626	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	4628	34628	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	4630	34630	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	4632	34632	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	4634	34634	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	4636	34636	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	4638	34638	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	4640	34640	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	4642	34642	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	4644	34644	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	4646	34646	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	4648	34648	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	4650	34650	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	4660	34660	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	4662	34662	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	4664	34664	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	4666	34666	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	4668	34668	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	4670	34670	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	4672	34672	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	4674	34674	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	4676	34676	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	4678	34678	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	4680	34680	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	4682	34682	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	4684	34684	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	4686	34686	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	4688	34688	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	4690	34690	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	4692	34692	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	4694	34694	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	4696	34696	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	4698	34698	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	4700	34700	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	4702	34702	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	4704	34704	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	4706	34706	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	4708	34708	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	4710	34710	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	4720	34720	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	4722	34722	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	4724	34724	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	4726	34726	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	4728	34728	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	4730	34730	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	4732	34732	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	4734	34734	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	4736	34736	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	4738	34738	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	4740	34740	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	4742	34742	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	4744	34744	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	4746	34746	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	4748	34748	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	4750	34750	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	4752	34752	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	4754	34754	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	4756	34756	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	4758	34758	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	4760	34760	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	4762	34762	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	4764	34764	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	4766	34766	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	4768	34768	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	4770	34770	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 17			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	4780	34780	Load Identifier (one-based)	uint32	N/A	2
name	4782	34782	Load name	string(40)	N/A	20
enabled	4802	34802	Load enabled	uint32	N/A	2
total_kWh	4804	34804	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	4806	34806	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	4808	34808	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	4810	34810	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	4812	34812	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	4814	34814	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	4816	34816	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	4818	34818	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	4820	34820	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	4822	34822	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	4824	34824	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	4826	34826	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	4828	34828	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	4830	34830	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	4832	34832	Total current across all phases in Amperes	float32	amperes	2
total_kW	4834	34834	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	4836	34836	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	4838	34838	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	4840	34840	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	4842	34842	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	4844	34844	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	4846	34846	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	4848	34848	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	4850	34850				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	4880	34880	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	4882	34882	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	4884	34884	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	4886	34886	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	4888	34888	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	4890	34890	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	4892	34892	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	4894	34894	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	4896	34896	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	4898	34898	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	4900	34900	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	4902	34902	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	4904	34904	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	4906	34906	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	4908	34908	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	4910	34910	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	4912	34912	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	4914	34914	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	4916	34916	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	4918	34918	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	4920	34920	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	4922	34922	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	4924	34924	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	4926	34926	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	4928	34928	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	4930	34930	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	4940	34940	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	4942	34942	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	4944	34944	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	4946	34946	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	4948	34948	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	4950	34950	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	4952	34952	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	4954	34954	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	4956	34956	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	4958	34958	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	4960	34960	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	4962	34962	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	4964	34964	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	4966	34966	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	4968	34968	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	4970	34970	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	4972	34972	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	4974	34974	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	4976	34976	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	4978	34978	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	4980	34980	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	4982	34982	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	4984	34984	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	4986	34986	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	4988	34988	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	4990	34990	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	5000	35000	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	5002	35002	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	5004	35004	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	5006	35006	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	5008	35008	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	5010	35010	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	5012	35012	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	5014	35014	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	5016	35016	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	5018	35018	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	5020	35020	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	5022	35022	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	5024	35024	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	5026	35026	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	5028	35028	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	5030	35030	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	5032	35032	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	5034	35034	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	5036	35036	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	5038	35038	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	5040	35040	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	5042	35042	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	5044	35044	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	5046	35046	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	5048	35048	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	5050	35050	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 18			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	5060	35060	Load Identifier (one-based)	uint32	N/A	2
name	5062	35062	Load name	string(40)	N/A	20
enabled	5082	35082	Load enabled	uint32	N/A	2
total_kWh	5084	35084	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	5086	35086	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	5088	35088	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	5090	35090	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	5092	35092	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	5094	35094	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	5096	35096	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	5098	35098	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	5100	35100	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	5102	35102	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	5104	35104	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	5106	35106	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	5108	35108	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	5110	35110	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	5112	35112	Total current across all phases in Amperes	float32	amperes	2
total_kW	5114	35114	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	5116	35116	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	5118	35118	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	5120	35120	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	5122	35122	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	5124	35124	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	5126	35126	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	5128	35128	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	5130	35130				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	5160	35160	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	5162	35162	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	5164	35164	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	5166	35166	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	5168	35168	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	5170	35170	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	5172	35172	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	5174	35174	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	5176	35176	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	5178	35178	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	5180	35180	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	5182	35182	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	5184	35184	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	5186	35186	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	5188	35188	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	5190	35190	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	5192	35192	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	5194	35194	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	5196	35196	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	5198	35198	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	5200	35200	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	5202	35202	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	5204	35204	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	5206	35206	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	5208	35208	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	5210	35210	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	5220	35220	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	5222	35222	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	5224	35224	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	5226	35226	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	5228	35228	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	5230	35230	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	5232	35232	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	5234	35234	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	5236	35236	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	5238	35238	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	5240	35240	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	5242	35242	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	5244	35244	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	5246	35246	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	5248	35248	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	5250	35250	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	5252	35252	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	5254	35254	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	5256	35256	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	5258	35258	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	5260	35260	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	5262	35262	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	5264	35264	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	5266	35266	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	5268	35268	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	5270	35270	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	5280	35280	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	5282	35282	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	5284	35284	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	5286	35286	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	5288	35288	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	5290	35290	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	5292	35292	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	5294	35294	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	5296	35296	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	5298	35298	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	5300	35300	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	5302	35302	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	5304	35304	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	5306	35306	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	5308	35308	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	5310	35310	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	5312	35312	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	5314	35314	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	5316	35316	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	5318	35318	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	5320	35320	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	5322	35322	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	5324	35324	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	5326	35326	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	5328	35328	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	5330	35330	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 19			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	5340	35340	Load Identifier (one-based)	uint32	N/A	2
name	5342	35342	Load name	string(40)	N/A	20
enabled	5362	35362	Load enabled	uint32	N/A	2
total_kWh	5364	35364	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	5366	35366	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	5368	35368	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	5370	35370	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	5372	35372	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	5374	35374	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	5376	35376	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	5378	35378	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	5380	35380	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	5382	35382	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	5384	35384	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	5386	35386	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	5388	35388	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	5390	35390	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	5392	35392	Total current across all phases in Amperes	float32	amperes	2
total_kW	5394	35394	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	5396	35396	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	5398	35398	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	5400	35400	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	5402	35402	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	5404	35404	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	5406	35406	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	5408	35408	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	5410	35410				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	5440	35440	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	5442	35442	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	5444	35444	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	5446	35446	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	5448	35448	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	5450	35450	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	5452	35452	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	5454	35454	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	5456	35456	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	5458	35458	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	5460	35460	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	5462	35462	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	5464	35464	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	5466	35466	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	5468	35468	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	5470	35470	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	5472	35472	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	5474	35474	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	5476	35476	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	5478	35478	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	5480	35480	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	5482	35482	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	5484	35484	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	5486	35486	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	5488	35488	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	5490	35490	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	5500	35500	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	5502	35502	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	5504	35504	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	5506	35506	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	5508	35508	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	5510	35510	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	5512	35512	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	5514	35514	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	5516	35516	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	5518	35518	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	5520	35520	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	5522	35522	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	5524	35524	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	5526	35526	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	5528	35528	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	5530	35530	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	5532	35532	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	5534	35534	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	5536	35536	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	5538	35538	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	5540	35540	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	5542	35542	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	5544	35544	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	5546	35546	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	5548	35548	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	5550	35550	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	5560	35560	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	5562	35562	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	5564	35564	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	5566	35566	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	5568	35568	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	5570	35570	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	5572	35572	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	5574	35574	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	5576	35576	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	5578	35578	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	5580	35580	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	5582	35582	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	5584	35584	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	5586	35586	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	5588	35588	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	5590	35590	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	5592	35592	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	5594	35594	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	5596	35596	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	5598	35598	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	5600	35600	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	5602	35602	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	5604	35604	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	5606	35606	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	5608	35608	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	5610	35610	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 20			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	5620	35620	Load Identifier (one-based)	uint32	N/A	2
name	5622	35622	Load name	string(40)	N/A	20
enabled	5642	35642	Load enabled	uint32	N/A	2
total_kWh	5644	35644	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	5646	35646	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	5648	35648	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	5650	35650	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	5652	35652	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	5654	35654	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	5656	35656	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	5658	35658	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	5660	35660	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	5662	35662	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	5664	35664	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	5666	35666	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	5668	35668	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	5670	35670	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	5672	35672	Total current across all phases in Amperes	float32	amperes	2
total_kW	5674	35674	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	5676	35676	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	5678	35678	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	5680	35680	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	5682	35682	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	5684	35684	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	5686	35686	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	5688	35688	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	5690	35690				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	5720	35720	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	5722	35722	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	5724	35724	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	5726	35726	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	5728	35728	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	5730	35730	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	5732	35732	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	5734	35734	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	5736	35736	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	5738	35738	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	5740	35740	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	5742	35742	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	5744	35744	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	5746	35746	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	5748	35748	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	5750	35750	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	5752	35752	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	5754	35754	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	5756	35756	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	5758	35758	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	5760	35760	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	5762	35762	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	5764	35764	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	5766	35766	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	5768	35768	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	5770	35770	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	5780	35780	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	5782	35782	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	5784	35784	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	5786	35786	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	5788	35788	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	5790	35790	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	5792	35792	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	5794	35794	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	5796	35796	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	5798	35798	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	5800	35800	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	5802	35802	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	5804	35804	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	5806	35806	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	5808	35808	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	5810	35810	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	5812	35812	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	5814	35814	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	5816	35816	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	5818	35818	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	5820	35820	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	5822	35822	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	5824	35824	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	5826	35826	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	5828	35828	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	5830	35830	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	5840	35840	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	5842	35842	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	5844	35844	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	5846	35846	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	5848	35848	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	5850	35850	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	5852	35852	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	5854	35854	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	5856	35856	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	5858	35858	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	5860	35860	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	5862	35862	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	5864	35864	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	5866	35866	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	5868	35868	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	5870	35870	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	5872	35872	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	5874	35874	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	5876	35876	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	5878	35878	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	5880	35880	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	5882	35882	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	5884	35884	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	5886	35886	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	5888	35888	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	5890	35890	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 21			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	5900	35900	Load Identifier (one-based)	uint32	N/A	2
name	5902	35902	Load name	string(40)	N/A	20
enabled	5922	35922	Load enabled	uint32	N/A	2
total_kWh	5924	35924	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	5926	35926	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	5928	35928	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	5930	35930	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	5932	35932	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	5934	35934	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	5936	35936	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	5938	35938	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	5940	35940	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	5942	35942	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	5944	35944	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	5946	35946	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	5948	35948	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	5950	35950	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	5952	35952	Total current across all phases in Amperes	float32	amperes	2
total_kW	5954	35954	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	5956	35956	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	5958	35958	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	5960	35960	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	5962	35962	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	5964	35964	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	5966	35966	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	5968	35968	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	5970	35970				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	6000	36000	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	6002	36002	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	6004	36004	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	6006	36006	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	6008	36008	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	6010	36010	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	6012	36012	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	6014	36014	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	6016	36016	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	6018	36018	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	6020	36020	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	6022	36022	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	6024	36024	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	6026	36026	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	6028	36028	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	6030	36030	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	6032	36032	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	6034	36034	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	6036	36036	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	6038	36038	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	6040	36040	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	6042	36042	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	6044	36044	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	6046	36046	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	6048	36048	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	6050	36050	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	6060	36060	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	6062	36062	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	6064	36064	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	6066	36066	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	6068	36068	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	6070	36070	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	6072	36072	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	6074	36074	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	6076	36076	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	6078	36078	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	6080	36080	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	6082	36082	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	6084	36084	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	6086	36086	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	6088	36088	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	6090	36090	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	6092	36092	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	6094	36094	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	6096	36096	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	6098	36098	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	6100	36100	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	6102	36102	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	6104	36104	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	6106	36106	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	6108	36108	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	6110	36110	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	6120	36120	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	6122	36122	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	6124	36124	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	6126	36126	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	6128	36128	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	6130	36130	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	6132	36132	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	6134	36134	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	6136	36136	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	6138	36138	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	6140	36140	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	6142	36142	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	6144	36144	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	6146	36146	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	6148	36148	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	6150	36150	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	6152	36152	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	6154	36154	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	6156	36156	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	6158	36158	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	6160	36160	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	6162	36162	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	6164	36164	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	6166	36166	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	6168	36168	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	6170	36170	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 22			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	6180	36180	Load Identifier (one-based)	uint32	N/A	2
name	6182	36182	Load name	string(40)	N/A	20
enabled	6202	36202	Load enabled	uint32	N/A	2
total_kWh	6204	36204	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	6206	36206	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	6208	36208	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	6210	36210	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	6212	36212	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	6214	36214	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	6216	36216	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	6218	36218	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	6220	36220	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	6222	36222	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	6224	36224	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	6226	36226	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	6228	36228	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	6230	36230	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	6232	36232	Total current across all phases in Amperes	float32	amperes	2
total_kW	6234	36234	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	6236	36236	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	6238	36238	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	6240	36240	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	6242	36242	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	6244	36244	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	6246	36246	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	6248	36248	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	6250	36250				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	6280	36280	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	6282	36282	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	6284	36284	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	6286	36286	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	6288	36288	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	6290	36290	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	6292	36292	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	6294	36294	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	6296	36296	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	6298	36298	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	6300	36300	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	6302	36302	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	6304	36304	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	6306	36306	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	6308	36308	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	6310	36310	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	6312	36312	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	6314	36314	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	6316	36316	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	6318	36318	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	6320	36320	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	6322	36322	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	6324	36324	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	6326	36326	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	6328	36328	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	6330	36330	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	6340	36340	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	6342	36342	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	6344	36344	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	6346	36346	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	6348	36348	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	6350	36350	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	6352	36352	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	6354	36354	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	6356	36356	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	6358	36358	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	6360	36360	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	6362	36362	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	6364	36364	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	6366	36366	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	6368	36368	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	6370	36370	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	6372	36372	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	6374	36374	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	6376	36376	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	6378	36378	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	6380	36380	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	6382	36382	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	6384	36384	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	6386	36386	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	6388	36388	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	6390	36390	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	6400	36400	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	6402	36402	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	6404	36404	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	6406	36406	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	6408	36408	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	6410	36410	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	6412	36412	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	6414	36414	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	6416	36416	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	6418	36418	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	6420	36420	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	6422	36422	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	6424	36424	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	6426	36426	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	6428	36428	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	6430	36430	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	6432	36432	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	6434	36434	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	6436	36436	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	6438	36438	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	6440	36440	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	6442	36442	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	6444	36444	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	6446	36446	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	6448	36448	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	6450	36450	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 23			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	6460	36460	Load Identifier (one-based)	uint32	N/A	2
name	6462	36462	Load name	string(40)	N/A	20
enabled	6482	36482	Load enabled	uint32	N/A	2
total_kWh	6484	36484	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	6486	36486	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	6488	36488	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	6490	36490	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	6492	36492	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	6494	36494	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	6496	36496	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	6498	36498	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	6500	36500	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	6502	36502	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	6504	36504	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	6506	36506	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	6508	36508	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	6510	36510	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	6512	36512	Total current across all phases in Amperes	float32	amperes	2
total_kW	6514	36514	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	6516	36516	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	6518	36518	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	6520	36520	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	6522	36522	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	6524	36524	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	6526	36526	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	6528	36528	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	6530	36530				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	6560	36560	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	6562	36562	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	6564	36564	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	6566	36566	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	6568	36568	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	6570	36570	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	6572	36572	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	6574	36574	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	6576	36576	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	6578	36578	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	6580	36580	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	6582	36582	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	6584	36584	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	6586	36586	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	6588	36588	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	6590	36590	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	6592	36592	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	6594	36594	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	6596	36596	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	6598	36598	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	6600	36600	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	6602	36602	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	6604	36604	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	6606	36606	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	6608	36608	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	6610	36610	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	6620	36620	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	6622	36622	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	6624	36624	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	6626	36626	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	6628	36628	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	6630	36630	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	6632	36632	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	6634	36634	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	6636	36636	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	6638	36638	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	6640	36640	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	6642	36642	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	6644	36644	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	6646	36646	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	6648	36648	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	6650	36650	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	6652	36652	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	6654	36654	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	6656	36656	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	6658	36658	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	6660	36660	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	6662	36662	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	6664	36664	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	6666	36666	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	6668	36668	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	6670	36670	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	6680	36680	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	6682	36682	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	6684	36684	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	6686	36686	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	6688	36688	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	6690	36690	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	6692	36692	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	6694	36694	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	6696	36696	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	6698	36698	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	6700	36700	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	6702	36702	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	6704	36704	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	6706	36706	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	6708	36708	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	6710	36710	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	6712	36712	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	6714	36714	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	6716	36716	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	6718	36718	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	6720	36720	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	6722	36722	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	6724	36724	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	6726	36726	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	6728	36728	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	6730	36730	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 24			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	6740	36740	Load Identifier (one-based)	uint32	N/A	2
name	6742	36742	Load name	string(40)	N/A	20
enabled	6762	36762	Load enabled	uint32	N/A	2
total_kWh	6764	36764	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	6766	36766	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	6768	36768	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	6770	36770	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	6772	36772	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	6774	36774	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	6776	36776	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	6778	36778	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	6780	36780	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	6782	36782	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	6784	36784	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	6786	36786	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	6788	36788	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	6790	36790	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	6792	36792	Total current across all phases in Amperes	float32	amperes	2
total_kW	6794	36794	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	6796	36796	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	6798	36798	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	6800	36800	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	6802	36802	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	6804	36804	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	6806	36806	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	6808	36808	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	6810	36810				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	6840	36840	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	6842	36842	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	6844	36844	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	6846	36846	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	6848	36848	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	6850	36850	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	6852	36852	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	6854	36854	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	6856	36856	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	6858	36858	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	6860	36860	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	6862	36862	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	6864	36864	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	6866	36866	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	6868	36868	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	6870	36870	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	6872	36872	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	6874	36874	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	6876	36876	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	6878	36878	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	6880	36880	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	6882	36882	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	6884	36884	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	6886	36886	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	6888	36888	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	6890	36890	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	6900	36900	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	6902	36902	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	6904	36904	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	6906	36906	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	6908	36908	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	6910	36910	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	6912	36912	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	6914	36914	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	6916	36916	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	6918	36918	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	6920	36920	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	6922	36922	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	6924	36924	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	6926	36926	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	6928	36928	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	6930	36930	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	6932	36932	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	6934	36934	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	6936	36936	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	6938	36938	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	6940	36940	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	6942	36942	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	6944	36944	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	6946	36946	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	6948	36948	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	6950	36950	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	6960	36960	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	6962	36962	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	6964	36964	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	6966	36966	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	6968	36968	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	6970	36970	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	6972	36972	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	6974	36974	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	6976	36976	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	6978	36978	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	6980	36980	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	6982	36982	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	6984	36984	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	6986	36986	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	6988	36988	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	6990	36990	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	6992	36992	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	6994	36994	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	6996	36996	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	6998	36998	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	7000	37000	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	7002	37002	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	7004	37004	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	7006	37006	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	7008	37008	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	7010	37010	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 25			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	7020	37020	Load Identifier (one-based)	uint32	N/A	2
name	7022	37022	Load name	string(40)	N/A	20
enabled	7042	37042	Load enabled	uint32	N/A	2
total_kWh	7044	37044	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	7046	37046	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	7048	37048	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	7050	37050	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	7052	37052	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	7054	37054	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	7056	37056	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	7058	37058	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	7060	37060	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	7062	37062	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	7064	37064	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	7066	37066	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	7068	37068	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	7070	37070	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	7072	37072	Total current across all phases in Amperes	float32	amperes	2
total_kW	7074	37074	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	7076	37076	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	7078	37078	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	7080	37080	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	7082	37082	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	7084	37084	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	7086	37086	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	7088	37088	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	7090	37090				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	7120	37120	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	7122	37122	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	7124	37124	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	7126	37126	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	7128	37128	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	7130	37130	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	7132	37132	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	7134	37134	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	7136	37136	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	7138	37138	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	7140	37140	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	7142	37142	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	7144	37144	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	7146	37146	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	7148	37148	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	7150	37150	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	7152	37152	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	7154	37154	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	7156	37156	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	7158	37158	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	7160	37160	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	7162	37162	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	7164	37164	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	7166	37166	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	7168	37168	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	7170	37170	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	7180	37180	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	7182	37182	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	7184	37184	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	7186	37186	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	7188	37188	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	7190	37190	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	7192	37192	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	7194	37194	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	7196	37196	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	7198	37198	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	7200	37200	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	7202	37202	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	7204	37204	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	7206	37206	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	7208	37208	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	7210	37210	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	7212	37212	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	7214	37214	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	7216	37216	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	7218	37218	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	7220	37220	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	7222	37222	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	7224	37224	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	7226	37226	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	7228	37228	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	7230	37230	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	7240	37240	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	7242	37242	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	7244	37244	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	7246	37246	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	7248	37248	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	7250	37250	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	7252	37252	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	7254	37254	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	7256	37256	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	7258	37258	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	7260	37260	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	7262	37262	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	7264	37264	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	7266	37266	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	7268	37268	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	7270	37270	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	7272	37272	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	7274	37274	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	7276	37276	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	7278	37278	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	7280	37280	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	7282	37282	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	7284	37284	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	7286	37286	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	7288	37288	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	7290	37290	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 26			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	7300	37300	Load Identifier (one-based)	uint32	N/A	2
name	7302	37302	Load name	string(40)	N/A	20
enabled	7322	37322	Load enabled	uint32	N/A	2
total_kWh	7324	37324	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	7326	37326	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	7328	37328	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	7330	37330	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	7332	37332	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	7334	37334	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	7336	37336	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	7338	37338	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	7340	37340	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	7342	37342	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	7344	37344	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	7346	37346	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	7348	37348	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	7350	37350	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	7352	37352	Total current across all phases in Amperes	float32	amperes	2
total_kW	7354	37354	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	7356	37356	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	7358	37358	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	7360	37360	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	7362	37362	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	7364	37364	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	7366	37366	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	7368	37368	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	7370	37370				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	7400	37400	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	7402	37402	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	7404	37404	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	7406	37406	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	7408	37408	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	7410	37410	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	7412	37412	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	7414	37414	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	7416	37416	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	7418	37418	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	7420	37420	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	7422	37422	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	7424	37424	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	7426	37426	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	7428	37428	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	7430	37430	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	7432	37432	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	7434	37434	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	7436	37436	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	7438	37438	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	7440	37440	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	7442	37442	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	7444	37444	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	7446	37446	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	7448	37448	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	7450	37450	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	7460	37460	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	7462	37462	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	7464	37464	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	7466	37466	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	7468	37468	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	7470	37470	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	7472	37472	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	7474	37474	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	7476	37476	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	7478	37478	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	7480	37480	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	7482	37482	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	7484	37484	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	7486	37486	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	7488	37488	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	7490	37490	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	7492	37492	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	7494	37494	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	7496	37496	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	7498	37498	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	7500	37500	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	7502	37502	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	7504	37504	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	7506	37506	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	7508	37508	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	7510	37510	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	7520	37520	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	7522	37522	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	7524	37524	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	7526	37526	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	7528	37528	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	7530	37530	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	7532	37532	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	7534	37534	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	7536	37536	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	7538	37538	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	7540	37540	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	7542	37542	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	7544	37544	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	7546	37546	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	7548	37548	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	7550	37550	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	7552	37552	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	7554	37554	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	7556	37556	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	7558	37558	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	7560	37560	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	7562	37562	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	7564	37564	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	7566	37566	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	7568	37568	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	7570	37570	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 27			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	7580	37580	Load Identifier (one-based)	uint32	N/A	2
name	7582	37582	Load name	string(40)	N/A	20
enabled	7602	37602	Load enabled	uint32	N/A	2
total_kWh	7604	37604	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	7606	37606	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	7608	37608	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	7610	37610	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	7612	37612	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	7614	37614	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	7616	37616	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	7618	37618	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	7620	37620	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	7622	37622	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	7624	37624	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	7626	37626	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	7628	37628	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	7630	37630	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	7632	37632	Total current across all phases in Amperes	float32	amperes	2
total_kW	7634	37634	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	7636	37636	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	7638	37638	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	7640	37640	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	7642	37642	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	7644	37644	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	7646	37646	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	7648	37648	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	7650	37650				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	7680	37680	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	7682	37682	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	7684	37684	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	7686	37686	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	7688	37688	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	7690	37690	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	7692	37692	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	7694	37694	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	7696	37696	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	7698	37698	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	7700	37700	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	7702	37702	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	7704	37704	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	7706	37706	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	7708	37708	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	7710	37710	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	7712	37712	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	7714	37714	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	7716	37716	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	7718	37718	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	7720	37720	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	7722	37722	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	7724	37724	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	7726	37726	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	7728	37728	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	7730	37730	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	7740	37740	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	7742	37742	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	7744	37744	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	7746	37746	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	7748	37748	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	7750	37750	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	7752	37752	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	7754	37754	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	7756	37756	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	7758	37758	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	7760	37760	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	7762	37762	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	7764	37764	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	7766	37766	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	7768	37768	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	7770	37770	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	7772	37772	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	7774	37774	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	7776	37776	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	7778	37778	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	7780	37780	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	7782	37782	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	7784	37784	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	7786	37786	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	7788	37788	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	7790	37790	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	7800	37800	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	7802	37802	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	7804	37804	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	7806	37806	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	7808	37808	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	7810	37810	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	7812	37812	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	7814	37814	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	7816	37816	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	7818	37818	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	7820	37820	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	7822	37822	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	7824	37824	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	7826	37826	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	7828	37828	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	7830	37830	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	7832	37832	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	7834	37834	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	7836	37836	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	7838	37838	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	7840	37840	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	7842	37842	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	7844	37844	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	7846	37846	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	7848	37848	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	7850	37850	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 28			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	7860	37860	Load Identifier (one-based)	uint32	N/A	2
name	7862	37862	Load name	string(40)	N/A	20
enabled	7882	37882	Load enabled	uint32	N/A	2
total_kWh	7884	37884	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	7886	37886	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	7888	37888	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	7890	37890	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	7892	37892	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	7894	37894	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	7896	37896	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	7898	37898	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	7900	37900	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	7902	37902	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	7904	37904	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	7906	37906	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	7908	37908	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	7910	37910	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	7912	37912	Total current across all phases in Amperes	float32	amperes	2
total_kW	7914	37914	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	7916	37916	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	7918	37918	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	7920	37920	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	7922	37922	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	7924	37924	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	7926	37926	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	7928	37928	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	7930	37930				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	7960	37960	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	7962	37962	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	7964	37964	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	7966	37966	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	7968	37968	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	7970	37970	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	7972	37972	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	7974	37974	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	7976	37976	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	7978	37978	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	7980	37980	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	7982	37982	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	7984	37984	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	7986	37986	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	7988	37988	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	7990	37990	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	7992	37992	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	7994	37994	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	7996	37996	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	7998	37998	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	8000	38000	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	8002	38002	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	8004	38004	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	8006	38006	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	8008	38008	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	8010	38010	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	8020	38020	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	8022	38022	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	8024	38024	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	8026	38026	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	8028	38028	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	8030	38030	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	8032	38032	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	8034	38034	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	8036	38036	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	8038	38038	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	8040	38040	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	8042	38042	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	8044	38044	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	8046	38046	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	8048	38048	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	8050	38050	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	8052	38052	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	8054	38054	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	8056	38056	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	8058	38058	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	8060	38060	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	8062	38062	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	8064	38064	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	8066	38066	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	8068	38068	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	8070	38070	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	8080	38080	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	8082	38082	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	8084	38084	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	8086	38086	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	8088	38088	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	8090	38090	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	8092	38092	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	8094	38094	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	8096	38096	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	8098	38098	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	8100	38100	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	8102	38102	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	8104	38104	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	8106	38106	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	8108	38108	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	8110	38110	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	8112	38112	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	8114	38114	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	8116	38116	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	8118	38118	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	8120	38120	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	8122	38122	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	8124	38124	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	8126	38126	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	8128	38128	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	8130	38130	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 29			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	8140	38140	Load Identifier (one-based)	uint32	N/A	2
name	8142	38142	Load name	string(40)	N/A	20
enabled	8162	38162	Load enabled	uint32	N/A	2
total_kWh	8164	38164	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	8166	38166	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	8168	38168	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	8170	38170	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	8172	38172	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	8174	38174	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	8176	38176	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	8178	38178	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	8180	38180	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	8182	38182	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	8184	38184	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	8186	38186	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	8188	38188	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	8190	38190	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	8192	38192	Total current across all phases in Amperes	float32	amperes	2
total_kW	8194	38194	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	8196	38196	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	8198	38198	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	8200	38200	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	8202	38202	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	8204	38204	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	8206	38206	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	8208	38208	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	8210	38210				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	8240	38240	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	8242	38242	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	8244	38244	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	8246	38246	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	8248	38248	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	8250	38250	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	8252	38252	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	8254	38254	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	8256	38256	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	8258	38258	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	8260	38260	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	8262	38262	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	8264	38264	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	8266	38266	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	8268	38268	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	8270	38270	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	8272	38272	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	8274	38274	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	8276	38276	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	8278	38278	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	8280	38280	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	8282	38282	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	8284	38284	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	8286	38286	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	8288	38288	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	8290	38290	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	8300	38300	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	8302	38302	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	8304	38304	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	8306	38306	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	8308	38308	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	8310	38310	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	8312	38312	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	8314	38314	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	8316	38316	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	8318	38318	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	8320	38320	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	8322	38322	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	8324	38324	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	8326	38326	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	8328	38328	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	8330	38330	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	8332	38332	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	8334	38334	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	8336	38336	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	8338	38338	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	8340	38340	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	8342	38342	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	8344	38344	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	8346	38346	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	8348	38348	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	8350	38350	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	8360	38360	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	8362	38362	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	8364	38364	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	8366	38366	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	8368	38368	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	8370	38370	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	8372	38372	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	8374	38374	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	8376	38376	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	8378	38378	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	8380	38380	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	8382	38382	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	8384	38384	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	8386	38386	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	8388	38388	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	8390	38390	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	8392	38392	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	8394	38394	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	8396	38396	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	8398	38398	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	8400	38400	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	8402	38402	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	8404	38404	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	8406	38406	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	8408	38408	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	8410	38410	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 30			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	8420	38420	Load Identifier (one-based)	uint32	N/A	2
name	8422	38422	Load name	string(40)	N/A	20
enabled	8442	38442	Load enabled	uint32	N/A	2
total_kWh	8444	38444	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	8446	38446	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	8448	38448	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	8450	38450	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	8452	38452	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	8454	38454	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	8456	38456	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	8458	38458	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	8460	38460	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	8462	38462	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	8464	38464	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	8466	38466	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	8468	38468	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	8470	38470	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	8472	38472	Total current across all phases in Amperes	float32	amperes	2
total_kW	8474	38474	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	8476	38476	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	8478	38478	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	8480	38480	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	8482	38482	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	8484	38484	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	8486	38486	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	8488	38488	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	8490	38490				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	8520	38520	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	8522	38522	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	8524	38524	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	8526	38526	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	8528	38528	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	8530	38530	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	8532	38532	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	8534	38534	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	8536	38536	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	8538	38538	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	8540	38540	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	8542	38542	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	8544	38544	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	8546	38546	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	8548	38548	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	8550	38550	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	8552	38552	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	8554	38554	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	8556	38556	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	8558	38558	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	8560	38560	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	8562	38562	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	8564	38564	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	8566	38566	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	8568	38568	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	8570	38570	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	8580	38580	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	8582	38582	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	8584	38584	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	8586	38586	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	8588	38588	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	8590	38590	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	8592	38592	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	8594	38594	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	8596	38596	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	8598	38598	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	8600	38600	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	8602	38602	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	8604	38604	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	8606	38606	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	8608	38608	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	8610	38610	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	8612	38612	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	8614	38614	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	8616	38616	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	8618	38618	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	8620	38620	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	8622	38622	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	8624	38624	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	8626	38626	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	8628	38628	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	8630	38630	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	8640	38640	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	8642	38642	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	8644	38644	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	8646	38646	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	8648	38648	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	8650	38650	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	8652	38652	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	8654	38654	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	8656	38656	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	8658	38658	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	8660	38660	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	8662	38662	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	8664	38664	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	8666	38666	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	8668	38668	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	8670	38670	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	8672	38672	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	8674	38674	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	8676	38676	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	8678	38678	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	8680	38680	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	8682	38682	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	8684	38684	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	8686	38686	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	8688	38688	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	8690	38690	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 31			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	8700	38700	Load Identifier (one-based)	uint32	N/A	2
name	8702	38702	Load name	string(40)	N/A	20
enabled	8722	38722	Load enabled	uint32	N/A	2
total_kWh	8724	38724	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	8726	38726	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	8728	38728	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	8730	38730	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	8732	38732	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	8734	38734	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	8736	38736	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	8738	38738	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	8740	38740	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	8742	38742	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	8744	38744	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	8746	38746	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	8748	38748	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	8750	38750	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	8752	38752	Total current across all phases in Amperes	float32	amperes	2
total_kW	8754	38754	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	8756	38756	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	8758	38758	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	8760	38760	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	8762	38762	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	8764	38764	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	8766	38766	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	8768	38768	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	8770	38770				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	8800	38800	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	8802	38802	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	8804	38804	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	8806	38806	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	8808	38808	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	8810	38810	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	8812	38812	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	8814	38814	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	8816	38816	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	8818	38818	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	8820	38820	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	8822	38822	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	8824	38824	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	8826	38826	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	8828	38828	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	8830	38830	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	8832	38832	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	8834	38834	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	8836	38836	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	8838	38838	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	8840	38840	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	8842	38842	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	8844	38844	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	8846	38846	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	8848	38848	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	8850	38850	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	8860	38860	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	8862	38862	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	8864	38864	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	8866	38866	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	8868	38868	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	8870	38870	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	8872	38872	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	8874	38874	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	8876	38876	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	8878	38878	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	8880	38880	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	8882	38882	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	8884	38884	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	8886	38886	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	8888	38888	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	8890	38890	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	8892	38892	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	8894	38894	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	8896	38896	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	8898	38898	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	8900	38900	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	8902	38902	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	8904	38904	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	8906	38906	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	8908	38908	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	8910	38910	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	8920	38920	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	8922	38922	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	8924	38924	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	8926	38926	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	8928	38928	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	8930	38930	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	8932	38932	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	8934	38934	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	8936	38936	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	8938	38938	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	8940	38940	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	8942	38942	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	8944	38944	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	8946	38946	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	8948	38948	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	8950	38950	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	8952	38952	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	8954	38954	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	8956	38956	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	8958	38958	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	8960	38960	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	8962	38962	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	8964	38964	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	8966	38966	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	8968	38968	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	8970	38970	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 32			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	8980	38980	Load Identifier (one-based)	uint32	N/A	2
name	8982	38982	Load name	string(40)	N/A	20
enabled	9002	39002	Load enabled	uint32	N/A	2
total_kWh	9004	39004	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	9006	39006	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	9008	39008	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	9010	39010	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	9012	39012	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	9014	39014	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	9016	39016	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	9018	39018	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	9020	39020	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	9022	39022	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	9024	39024	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	9026	39026	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	9028	39028	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	9030	39030	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	9032	39032	Total current across all phases in Amperes	float32	amperes	2
total_kW	9034	39034	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	9036	39036	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	9038	39038	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	9040	39040	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	9042	39042	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	9044	39044	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	9046	39046	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	9048	39048	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	9050	39050				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	9080	39080	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	9082	39082	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	9084	39084	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	9086	39086	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	9088	39088	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	9090	39090	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	9092	39092	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	9094	39094	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	9096	39096	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	9098	39098	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	9100	39100	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	9102	39102	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	9104	39104	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	9106	39106	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	9108	39108	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	9110	39110	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	9112	39112	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	9114	39114	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	9116	39116	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	9118	39118	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	9120	39120	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	9122	39122	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	9124	39124	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	9126	39126	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	9128	39128	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	9130	39130	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	9140	39140	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	9142	39142	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	9144	39144	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	9146	39146	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	9148	39148	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	9150	39150	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	9152	39152	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	9154	39154	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	9156	39156	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	9158	39158	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	9160	39160	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	9162	39162	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	9164	39164	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	9166	39166	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	9168	39168	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	9170	39170	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	9172	39172	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	9174	39174	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	9176	39176	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	9178	39178	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	9180	39180	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	9182	39182	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	9184	39184	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	9186	39186	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	9188	39188	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	9190	39190	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	9200	39200	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	9202	39202	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	9204	39204	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	9206	39206	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	9208	39208	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	9210	39210	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	9212	39212	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	9214	39214	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	9216	39216	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	9218	39218	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	9220	39220	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	9222	39222	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	9224	39224	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	9226	39226	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	9228	39228	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	9230	39230	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	9232	39232	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	9234	39234	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	9236	39236	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	9238	39238	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	9240	39240	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	9242	39242	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	9244	39244	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	9246	39246	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	9248	39248	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	9250	39250	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 33			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	9260	39260	Load Identifier (one-based)	uint32	N/A	2
name	9262	39262	Load name	string(40)	N/A	20
enabled	9282	39282	Load enabled	uint32	N/A	2
total_kWh	9284	39284	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	9286	39286	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	9288	39288	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	9290	39290	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	9292	39292	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	9294	39294	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	9296	39296	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	9298	39298	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	9300	39300	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	9302	39302	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	9304	39304	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	9306	39306	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	9308	39308	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	9310	39310	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	9312	39312	Total current across all phases in Amperes	float32	amperes	2
total_kW	9314	39314	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	9316	39316	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	9318	39318	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	9320	39320	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	9322	39322	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	9324	39324	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	9326	39326	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	9328	39328	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	9330	39330				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	9360	39360	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	9362	39362	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	9364	39364	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	9366	39366	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	9368	39368	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	9370	39370	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	9372	39372	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	9374	39374	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	9376	39376	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	9378	39378	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	9380	39380	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	9382	39382	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	9384	39384	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	9386	39386	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	9388	39388	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	9390	39390	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	9392	39392	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	9394	39394	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	9396	39396	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	9398	39398	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	9400	39400	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	9402	39402	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	9404	39404	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	9406	39406	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	9408	39408	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	9410	39410	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	9420	39420	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	9422	39422	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	9424	39424	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	9426	39426	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	9428	39428	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	9430	39430	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	9432	39432	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	9434	39434	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	9436	39436	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	9438	39438	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	9440	39440	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	9442	39442	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	9444	39444	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	9446	39446	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	9448	39448	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	9450	39450	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	9452	39452	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	9454	39454	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	9456	39456	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	9458	39458	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	9460	39460	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	9462	39462	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	9464	39464	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	9466	39466	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	9468	39468	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	9470	39470	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	9480	39480	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	9482	39482	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	9484	39484	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	9486	39486	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	9488	39488	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	9490	39490	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	9492	39492	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	9494	39494	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	9496	39496	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	9498	39498	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	9500	39500	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	9502	39502	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	9504	39504	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	9506	39506	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	9508	39508	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	9510	39510	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	9512	39512	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	9514	39514	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	9516	39516	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	9518	39518	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	9520	39520	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	9522	39522	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	9524	39524	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	9526	39526	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	9528	39528	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	9530	39530	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 34			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	9540	39540	Load Identifier (one-based)	uint32	N/A	2
name	9542	39542	Load name	string(40)	N/A	20
enabled	9562	39562	Load enabled	uint32	N/A	2
total_kWh	9564	39564	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	9566	39566	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	9568	39568	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	9570	39570	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	9572	39572	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	9574	39574	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	9576	39576	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	9578	39578	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	9580	39580	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	9582	39582	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	9584	39584	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	9586	39586	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	9588	39588	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	9590	39590	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	9592	39592	Total current across all phases in Amperes	float32	amperes	2
total_kW	9594	39594	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	9596	39596	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	9598	39598	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	9600	39600	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	9602	39602	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	9604	39604	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	9606	39606	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	9608	39608	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	9610	39610				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	9640	39640	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	9642	39642	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	9644	39644	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	9646	39646	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	9648	39648	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	9650	39650	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	9652	39652	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	9654	39654	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	9656	39656	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	9658	39658	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	9660	39660	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	9662	39662	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	9664	39664	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	9666	39666	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	9668	39668	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	9670	39670	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	9672	39672	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	9674	39674	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	9676	39676	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	9678	39678	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	9680	39680	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	9682	39682	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	9684	39684	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	9686	39686	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	9688	39688	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	9690	39690	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	9700	39700	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	9702	39702	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	9704	39704	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	9706	39706	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	9708	39708	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	9710	39710	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	9712	39712	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	9714	39714	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	9716	39716	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	9718	39718	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	9720	39720	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	9722	39722	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	9724	39724	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	9726	39726	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	9728	39728	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	9730	39730	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	9732	39732	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	9734	39734	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	9736	39736	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	9738	39738	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	9740	39740	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	9742	39742	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	9744	39744	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	9746	39746	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	9748	39748	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	9750	39750	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	9760	39760	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	9762	39762	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	9764	39764	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	9766	39766	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	9768	39768	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	9770	39770	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	9772	39772	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	9774	39774	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	9776	39776	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	9778	39778	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	9780	39780	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	9782	39782	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	9784	39784	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	9786	39786	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	9788	39788	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	9790	39790	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	9792	39792	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	9794	39794	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	9796	39796	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	9798	39798	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	9800	39800	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	9802	39802	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	9804	39804	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	9806	39806	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	9808	39808	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	9810	39810	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 35			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	9820	39820	Load Identifier (one-based)	uint32	N/A	2
name	9822	39822	Load name	string(40)	N/A	20
enabled	9842	39842	Load enabled	uint32	N/A	2
total_kWh	9844	39844	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	9846	39846	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	9848	39848	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	9850	39850	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	9852	39852	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	9854	39854	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	9856	39856	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	9858	39858	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	9860	39860	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	9862	39862	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	9864	39864	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	9866	39866	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	9868	39868	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	9870	39870	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	9872	39872	Total current across all phases in Amperes	float32	amperes	2
total_kW	9874	39874	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	9876	39876	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	9878	39878	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	9880	39880	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	9882	39882	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	9884	39884	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	9886	39886	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	9888	39888	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	9890	39890				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	9920	39920	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	9922	39922	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	9924	39924	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	9926	39926	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	9928	39928	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	9930	39930	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	9932	39932	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	9934	39934	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	9936	39936	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	9938	39938	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	9940	39940	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	9942	39942	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	9944	39944	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	9946	39946	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	9948	39948	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	9950	39950	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	9952	39952	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	9954	39954	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	9956	39956	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	9958	39958	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	9960	39960	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	9962	39962	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	9964	39964	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	9966	39966	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	9968	39968	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	9970	39970	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	9980	39980	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	9982	39982	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	9984	39984	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	9986	39986	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	9988	39988	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	9990	39990	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	9992	39992	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	9994	39994	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	9996	39996	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	9998	39998	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	10000	40000	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	10002	40002	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	10004	40004	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	10006	40006	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	10008	40008	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	10010	40010	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	10012	40012	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	10014	40014	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	10016	40016	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	10018	40018	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	10020	40020	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	10022	40022	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	10024	40024	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	10026	40026	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	10028	40028	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	10030	40030	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	10040	40040	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	10042	40042	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	10044	40044	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	10046	40046	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	10048	40048	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	10050	40050	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	10052	40052	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	10054	40054	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	10056	40056	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	10058	40058	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	10060	40060	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	10062	40062	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	10064	40064	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	10066	40066	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	10068	40068	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	10070	40070	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	10072	40072	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	10074	40074	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	10076	40076	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	10078	40078	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	10080	40080	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	10082	40082	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	10084	40084	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	10086	40086	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	10088	40088	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	10090	40090	Phase L3			10

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Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 36			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	10100	40100	Load Identifier (one-based)	uint32	N/A	2
name	10102	40102	Load name	string(40)	N/A	20
enabled	10122	40122	Load enabled	uint32	N/A	2
total_kWh	10124	40124	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	10126	40126	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	10128	40128	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	10130	40130	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	10132	40132	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	10134	40134	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	10136	40136	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	10138	40138	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	10140	40140	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	10142	40142	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	10144	40144	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	10146	40146	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	10148	40148	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	10150	40150	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	10152	40152	Total current across all phases in Amperes	float32	amperes	2
total_kW	10154	40154	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	10156	40156	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	10158	40158	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	10160	40160	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	10162	40162	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	10164	40164	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	10166	40166	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	10168	40168	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	10170	40170				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	10200	40200	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	10202	40202	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	10204	40204	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	10206	40206	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	10208	40208	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	10210	40210	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	10212	40212	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	10214	40214	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	10216	40216	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	10218	40218	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	10220	40220	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	10222	40222	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	10224	40224	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	10226	40226	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	10228	40228	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	10230	40230	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	10232	40232	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	10234	40234	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	10236	40236	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	10238	40238	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	10240	40240	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	10242	40242	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	10244	40244	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	10246	40246	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	10248	40248	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	10250	40250	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	10260	40260	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	10262	40262	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	10264	40264	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	10266	40266	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	10268	40268	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	10270	40270	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	10272	40272	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	10274	40274	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	10276	40276	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	10278	40278	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	10280	40280	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	10282	40282	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	10284	40284	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	10286	40286	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	10288	40288	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	10290	40290	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	10292	40292	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	10294	40294	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	10296	40296	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	10298	40298	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	10300	40300	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	10302	40302	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	10304	40304	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	10306	40306	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	10308	40308	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	10310	40310	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	10320	40320	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	10322	40322	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	10324	40324	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	10326	40326	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	10328	40328	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	10330	40330	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	10332	40332	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	10334	40334	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	10336	40336	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	10338	40338	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	10340	40340	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	10342	40342	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	10344	40344	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	10346	40346	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	10348	40348	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	10350	40350	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	10352	40352	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	10354	40354	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	10356	40356	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	10358	40358	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	10360	40360	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	10362	40362	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	10364	40364	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	10366	40366	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	10368	40368	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	10370	40370	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 37			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	10380	40380	Load Identifier (one-based)	uint32	N/A	2
name	10382	40382	Load name	string(40)	N/A	20
enabled	10402	40402	Load enabled	uint32	N/A	2
total_kWh	10404	40404	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	10406	40406	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	10408	40408	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	10410	40410	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	10412	40412	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	10414	40414	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	10416	40416	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	10418	40418	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	10420	40420	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	10422	40422	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	10424	40424	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	10426	40426	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	10428	40428	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	10430	40430	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	10432	40432	Total current across all phases in Amperes	float32	amperes	2
total_kW	10434	40434	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	10436	40436	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	10438	40438	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	10440	40440	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	10442	40442	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	10444	40444	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	10446	40446	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	10448	40448	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	10450	40450				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	10480	40480	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	10482	40482	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	10484	40484	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	10486	40486	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	10488	40488	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	10490	40490	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	10492	40492	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	10494	40494	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	10496	40496	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	10498	40498	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	10500	40500	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	10502	40502	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	10504	40504	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	10506	40506	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	10508	40508	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	10510	40510	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	10512	40512	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	10514	40514	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	10516	40516	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	10518	40518	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	10520	40520	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	10522	40522	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	10524	40524	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	10526	40526	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	10528	40528	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	10530	40530	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	10540	40540	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	10542	40542	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	10544	40544	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	10546	40546	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	10548	40548	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	10550	40550	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	10552	40552	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	10554	40554	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	10556	40556	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	10558	40558	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	10560	40560	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	10562	40562	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	10564	40564	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	10566	40566	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	10568	40568	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	10570	40570	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	10572	40572	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	10574	40574	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	10576	40576	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	10578	40578	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	10580	40580	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	10582	40582	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	10584	40584	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	10586	40586	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	10588	40588	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	10590	40590	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	10600	40600	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	10602	40602	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	10604	40604	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	10606	40606	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	10608	40608	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	10610	40610	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	10612	40612	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	10614	40614	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	10616	40616	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	10618	40618	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	10620	40620	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	10622	40622	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	10624	40624	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	10626	40626	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	10628	40628	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	10630	40630	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	10632	40632	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	10634	40634	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	10636	40636	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	10638	40638	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	10640	40640	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	10642	40642	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	10644	40644	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	10646	40646	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	10648	40648	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	10650	40650	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 38			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	10660	40660	Load Identifier (one-based)	uint32	N/A	2
name	10662	40662	Load name	string(40)	N/A	20
enabled	10682	40682	Load enabled	uint32	N/A	2
total_kWh	10684	40684	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	10686	40686	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	10688	40688	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	10690	40690	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	10692	40692	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	10694	40694	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	10696	40696	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	10698	40698	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	10700	40700	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	10702	40702	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	10704	40704	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	10706	40706	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	10708	40708	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	10710	40710	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	10712	40712	Total current across all phases in Amperes	float32	amperes	2
total_kW	10714	40714	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	10716	40716	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	10718	40718	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	10720	40720	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	10722	40722	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	10724	40724	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	10726	40726	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	10728	40728	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	10730	40730				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	10760	40760	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	10762	40762	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	10764	40764	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	10766	40766	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	10768	40768	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	10770	40770	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	10772	40772	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	10774	40774	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	10776	40776	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	10778	40778	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	10780	40780	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	10782	40782	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	10784	40784	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	10786	40786	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	10788	40788	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	10790	40790	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	10792	40792	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	10794	40794	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	10796	40796	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	10798	40798	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	10800	40800	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	10802	40802	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	10804	40804	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	10806	40806	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	10808	40808	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	10810	40810	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	10820	40820	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	10822	40822	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	10824	40824	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	10826	40826	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	10828	40828	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	10830	40830	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	10832	40832	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	10834	40834	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	10836	40836	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	10838	40838	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	10840	40840	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	10842	40842	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	10844	40844	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	10846	40846	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	10848	40848	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	10850	40850	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	10852	40852	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	10854	40854	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	10856	40856	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	10858	40858	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	10860	40860	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	10862	40862	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	10864	40864	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	10866	40866	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	10868	40868	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	10870	40870	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	10880	40880	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	10882	40882	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	10884	40884	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	10886	40886	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	10888	40888	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	10890	40890	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	10892	40892	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	10894	40894	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	10896	40896	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	10898	40898	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	10900	40900	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	10902	40902	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	10904	40904	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	10906	40906	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	10908	40908	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	10910	40910	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	10912	40912	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	10914	40914	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	10916	40916	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	10918	40918	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	10920	40920	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	10922	40922	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	10924	40924	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	10926	40926	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	10928	40928	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	10930	40930	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 39			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	10940	40940	Load Identifier (one-based)	uint32	N/A	2
name	10942	40942	Load name	string(40)	N/A	20
enabled	10962	40962	Load enabled	uint32	N/A	2
total_kWh	10964	40964	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	10966	40966	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	10968	40968	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	10970	40970	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	10972	40972	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	10974	40974	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	10976	40976	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	10978	40978	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	10980	40980	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	10982	40982	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	10984	40984	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	10986	40986	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	10988	40988	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	10990	40990	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	10992	40992	Total current across all phases in Amperes	float32	amperes	2
total_kW	10994	40994	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	10996	40996	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	10998	40998	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	11000	41000	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	11002	41002	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	11004	41004	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	11006	41006	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	11008	41008	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	11010	41010				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	11040	41040	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	11042	41042	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	11044	41044	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	11046	41046	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	11048	41048	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	11050	41050	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	11052	41052	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	11054	41054	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	11056	41056	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	11058	41058	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	11060	41060	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	11062	41062	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	11064	41064	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	11066	41066	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	11068	41068	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	11070	41070	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	11072	41072	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	11074	41074	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	11076	41076	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	11078	41078	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	11080	41080	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	11082	41082	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	11084	41084	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	11086	41086	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	11088	41088	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	11090	41090	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	11100	41100	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	11102	41102	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	11104	41104	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	11106	41106	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	11108	41108	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	11110	41110	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	11112	41112	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	11114	41114	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	11116	41116	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	11118	41118	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	11120	41120	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	11122	41122	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	11124	41124	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	11126	41126	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	11128	41128	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	11130	41130	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	11132	41132	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	11134	41134	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	11136	41136	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	11138	41138	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	11140	41140	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	11142	41142	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	11144	41144	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	11146	41146	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	11148	41148	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	11150	41150	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	11160	41160	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	11162	41162	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	11164	41164	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	11166	41166	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	11168	41168	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	11170	41170	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	11172	41172	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	11174	41174	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	11176	41176	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	11178	41178	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	11180	41180	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	11182	41182	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	11184	41184	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	11186	41186	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	11188	41188	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	11190	41190	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	11192	41192	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	11194	41194	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	11196	41196	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	11198	41198	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	11200	41200	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	11202	41202	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	11204	41204	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	11206	41206	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	11208	41208	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	11210	41210	Phase L3			10

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Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 40			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	11220	41220	Load Identifier (one-based)	uint32	N/A	2
name	11222	41222	Load name	string(40)	N/A	20
enabled	11242	41242	Load enabled	uint32	N/A	2
total_kWh	11244	41244	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	11246	41246	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	11248	41248	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	11250	41250	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	11252	41252	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	11254	41254	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	11256	41256	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	11258	41258	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	11260	41260	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	11262	41262	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	11264	41264	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	11266	41266	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	11268	41268	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	11270	41270	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	11272	41272	Total current across all phases in Amperes	float32	amperes	2
total_kW	11274	41274	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	11276	41276	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	11278	41278	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	11280	41280	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	11282	41282	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	11284	41284	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	11286	41286	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	11288	41288	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	11290	41290				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	11320	41320	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	11322	41322	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	11324	41324	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	11326	41326	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	11328	41328	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	11330	41330	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	11332	41332	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	11334	41334	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	11336	41336	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	11338	41338	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	11340	41340	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	11342	41342	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	11344	41344	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	11346	41346	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	11348	41348	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	11350	41350	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	11352	41352	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	11354	41354	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	11356	41356	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	11358	41358	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	11360	41360	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	11362	41362	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	11364	41364	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	11366	41366	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	11368	41368	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	11370	41370	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	11380	41380	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	11382	41382	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	11384	41384	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	11386	41386	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	11388	41388	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	11390	41390	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	11392	41392	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	11394	41394	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	11396	41396	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	11398	41398	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	11400	41400	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	11402	41402	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	11404	41404	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	11406	41406	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	11408	41408	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	11410	41410	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	11412	41412	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	11414	41414	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	11416	41416	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	11418	41418	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	11420	41420	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	11422	41422	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	11424	41424	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	11426	41426	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	11428	41428	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	11430	41430	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	11440	41440	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	11442	41442	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	11444	41444	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	11446	41446	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	11448	41448	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	11450	41450	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	11452	41452	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	11454	41454	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	11456	41456	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	11458	41458	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	11460	41460	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	11462	41462	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	11464	41464	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	11466	41466	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	11468	41468	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	11470	41470	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	11472	41472	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	11474	41474	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	11476	41476	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	11478	41478	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	11480	41480	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	11482	41482	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	11484	41484	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	11486	41486	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	11488	41488	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	11490	41490	Phase L3			10

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Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 41			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	11500	41500	Load Identifier (one-based)	uint32	N/A	2
name	11502	41502	Load name	string(40)	N/A	20
enabled	11522	41522	Load enabled	uint32	N/A	2
total_kWh	11524	41524	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	11526	41526	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	11528	41528	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	11530	41530	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	11532	41532	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	11534	41534	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	11536	41536	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	11538	41538	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	11540	41540	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	11542	41542	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	11544	41544	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	11546	41546	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	11548	41548	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	11550	41550	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	11552	41552	Total current across all phases in Amperes	float32	amperes	2
total_kW	11554	41554	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	11556	41556	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	11558	41558	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	11560	41560	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	11562	41562	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	11564	41564	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	11566	41566	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	11568	41568	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	11570	41570				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	11600	41600	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	11602	41602	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	11604	41604	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	11606	41606	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	11608	41608	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	11610	41610	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	11612	41612	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	11614	41614	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	11616	41616	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	11618	41618	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	11620	41620	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	11622	41622	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	11624	41624	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	11626	41626	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	11628	41628	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	11630	41630	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	11632	41632	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	11634	41634	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	11636	41636	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	11638	41638	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	11640	41640	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	11642	41642	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	11644	41644	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	11646	41646	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	11648	41648	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	11650	41650	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	11660	41660	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	11662	41662	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	11664	41664	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	11666	41666	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	11668	41668	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	11670	41670	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	11672	41672	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	11674	41674	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	11676	41676	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	11678	41678	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	11680	41680	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	11682	41682	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	11684	41684	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	11686	41686	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	11688	41688	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	11690	41690	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	11692	41692	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	11694	41694	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	11696	41696	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	11698	41698	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	11700	41700	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	11702	41702	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	11704	41704	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	11706	41706	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	11708	41708	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	11710	41710	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	11720	41720	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	11722	41722	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	11724	41724	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	11726	41726	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	11728	41728	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	11730	41730	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	11732	41732	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	11734	41734	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	11736	41736	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	11738	41738	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	11740	41740	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	11742	41742	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	11744	41744	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	11746	41746	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	11748	41748	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	11750	41750	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	11752	41752	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	11754	41754	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	11756	41756	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	11758	41758	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	11760	41760	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	11762	41762	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	11764	41764	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	11766	41766	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	11768	41768	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	11770	41770	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 42			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	11780	41780	Load Identifier (one-based)	uint32	N/A	2
name	11782	41782	Load name	string(40)	N/A	20
enabled	11802	41802	Load enabled	uint32	N/A	2
total_kWh	11804	41804	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	11806	41806	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	11808	41808	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	11810	41810	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	11812	41812	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	11814	41814	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	11816	41816	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	11818	41818	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	11820	41820	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	11822	41822	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	11824	41824	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	11826	41826	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	11828	41828	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	11830	41830	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	11832	41832	Total current across all phases in Amperes	float32	amperes	2
total_kW	11834	41834	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	11836	41836	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	11838	41838	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	11840	41840	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	11842	41842	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	11844	41844	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	11846	41846	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	11848	41848	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	11850	41850				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	11880	41880	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	11882	41882	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	11884	41884	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	11886	41886	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	11888	41888	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	11890	41890	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	11892	41892	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	11894	41894	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	11896	41896	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	11898	41898	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	11900	41900	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	11902	41902	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	11904	41904	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	11906	41906	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	11908	41908	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	11910	41910	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	11912	41912	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	11914	41914	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	11916	41916	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	11918	41918	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	11920	41920	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	11922	41922	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	11924	41924	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	11926	41926	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	11928	41928	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	11930	41930	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	11940	41940	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	11942	41942	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	11944	41944	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	11946	41946	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	11948	41948	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	11950	41950	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	11952	41952	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	11954	41954	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	11956	41956	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	11958	41958	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	11960	41960	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	11962	41962	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	11964	41964	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	11966	41966	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	11968	41968	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	11970	41970	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	11972	41972	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	11974	41974	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	11976	41976	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	11978	41978	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	11980	41980	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	11982	41982	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	11984	41984	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	11986	41986	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	11988	41988	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	11990	41990	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	12000	42000	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	12002	42002	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	12004	42004	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	12006	42006	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	12008	42008	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	12010	42010	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	12012	42012	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	12014	42014	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	12016	42016	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	12018	42018	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	12020	42020	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	12022	42022	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	12024	42024	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	12026	42026	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	12028	42028	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	12030	42030	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	12032	42032	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	12034	42034	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	12036	42036	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	12038	42038	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	12040	42040	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	12042	42042	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	12044	42044	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	12046	42046	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	12048	42048	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	12050	42050	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 43			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	12060	42060	Load Identifier (one-based)	uint32	N/A	2
name	12062	42062	Load name	string(40)	N/A	20
enabled	12082	42082	Load enabled	uint32	N/A	2
total_kWh	12084	42084	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	12086	42086	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	12088	42088	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	12090	42090	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	12092	42092	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	12094	42094	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	12096	42096	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	12098	42098	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	12100	42100	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	12102	42102	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	12104	42104	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	12106	42106	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	12108	42108	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	12110	42110	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	12112	42112	Total current across all phases in Amperes	float32	amperes	2
total_kW	12114	42114	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	12116	42116	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	12118	42118	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	12120	42120	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	12122	42122	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	12124	42124	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	12126	42126	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	12128	42128	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	12130	42130				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	12160	42160	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	12162	42162	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	12164	42164	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	12166	42166	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	12168	42168	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	12170	42170	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	12172	42172	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	12174	42174	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	12176	42176	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	12178	42178	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	12180	42180	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	12182	42182	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	12184	42184	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	12186	42186	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	12188	42188	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	12190	42190	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	12192	42192	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	12194	42194	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	12196	42196	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	12198	42198	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	12200	42200	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	12202	42202	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	12204	42204	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	12206	42206	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	12208	42208	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	12210	42210	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	12220	42220	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	12222	42222	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	12224	42224	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	12226	42226	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	12228	42228	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	12230	42230	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	12232	42232	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	12234	42234	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	12236	42236	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	12238	42238	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	12240	42240	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	12242	42242	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	12244	42244	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	12246	42246	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	12248	42248	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	12250	42250	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	12252	42252	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	12254	42254	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	12256	42256	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	12258	42258	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	12260	42260	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	12262	42262	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	12264	42264	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	12266	42266	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	12268	42268	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	12270	42270	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	12280	42280	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	12282	42282	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	12284	42284	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	12286	42286	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	12288	42288	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	12290	42290	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	12292	42292	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	12294	42294	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	12296	42296	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	12298	42298	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	12300	42300	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	12302	42302	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	12304	42304	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	12306	42306	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	12308	42308	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	12310	42310	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	12312	42312	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	12314	42314	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	12316	42316	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	12318	42318	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	12320	42320	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	12322	42322	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	12324	42324	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	12326	42326	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	12328	42328	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	12330	42330	Phase L3			10

Setra Power Meter Modbus Register Master List

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 44			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	12340	42340	Load Identifier (one-based)	uint32	N/A	2
name	12342	42342	Load name	string(40)	N/A	20
enabled	12362	42362	Load enabled	uint32	N/A	2
total_kWh	12364	42364	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	12366	42366	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	12368	42368	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	12370	42370	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	12372	42372	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	12374	42374	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	12376	42376	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	12378	42378	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	12380	42380	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	12382	42382	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	12384	42384	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	12386	42386	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	12388	42388	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	12390	42390	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	12392	42392	Total current across all phases in Amperes	float32	amperes	2
total_kW	12394	42394	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	12396	42396	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	12398	42398	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	12400	42400	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	12402	42402	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	12404	42404	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	12406	42406	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	12408	42408	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	12410	42410				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	12440	42440	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	12442	42442	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	12444	42444	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	12446	42446	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	12448	42448	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	12450	42450	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	12452	42452	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	12454	42454	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	12456	42456	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	12458	42458	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	12460	42460	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	12462	42462	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	12464	42464	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	12466	42466	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	12468	42468	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	12470	42470	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	12472	42472	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	12474	42474	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	12476	42476	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	12478	42478	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	12480	42480	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	12482	42482	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	12484	42484	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	12486	42486	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	12488	42488	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	12490	42490	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	12500	42500	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	12502	42502	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	12504	42504	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	12506	42506	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	12508	42508	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	12510	42510	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	12512	42512	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	12514	42514	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	12516	42516	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	12518	42518	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	12520	42520	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	12522	42522	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	12524	42524	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	12526	42526	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	12528	42528	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	12530	42530	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	12532	42532	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	12534	42534	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	12536	42536	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	12538	42538	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	12540	42540	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	12542	42542	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	12544	42544	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	12546	42546	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	12548	42548	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	12550	42550	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	12560	42560	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	12562	42562	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	12564	42564	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	12566	42566	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	12568	42568	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	12570	42570	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	12572	42572	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	12574	42574	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	12576	42576	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	12578	42578	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	12580	42580	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	12582	42582	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	12584	42584	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	12586	42586	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	12588	42588	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	12590	42590	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	12592	42592	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	12594	42594	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	12596	42596	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	12598	42598	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	12600	42600	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	12602	42602	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	12604	42604	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	12606	42606	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	12608	42608	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	12610	42610	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 45			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	12620	42620	Load Identifier (one-based)	uint32	N/A	2
name	12622	42622	Load name	string(40)	N/A	20
enabled	12642	42642	Load enabled	uint32	N/A	2
total_kWh	12644	42644	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	12646	42646	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	12648	42648	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	12650	42650	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	12652	42652	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	12654	42654	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	12656	42656	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	12658	42658	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	12660	42660	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	12662	42662	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	12664	42664	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	12666	42666	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	12668	42668	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	12670	42670	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	12672	42672	Total current across all phases in Amperes	float32	amperes	2
total_kW	12674	42674	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	12676	42676	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	12678	42678	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	12680	42680	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	12682	42682	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	12684	42684	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	12686	42686	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	12688	42688	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	12690	42690				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	12720	42720	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	12722	42722	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	12724	42724	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	12726	42726	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	12728	42728	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	12730	42730	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	12732	42732	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	12734	42734	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	12736	42736	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	12738	42738	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	12740	42740	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	12742	42742	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	12744	42744	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	12746	42746	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	12748	42748	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	12750	42750	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	12752	42752	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	12754	42754	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	12756	42756	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	12758	42758	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	12760	42760	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	12762	42762	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	12764	42764	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	12766	42766	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	12768	42768	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	12770	42770	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	12780	42780	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	12782	42782	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	12784	42784	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	12786	42786	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	12788	42788	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	12790	42790	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	12792	42792	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	12794	42794	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	12796	42796	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	12798	42798	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	12800	42800	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	12802	42802	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	12804	42804	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	12806	42806	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	12808	42808	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	12810	42810	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	12812	42812	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	12814	42814	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	12816	42816	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	12818	42818	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	12820	42820	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	12822	42822	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	12824	42824	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	12826	42826	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	12828	42828	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	12830	42830	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	12840	42840	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	12842	42842	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	12844	42844	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	12846	42846	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	12848	42848	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	12850	42850	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	12852	42852	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	12854	42854	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	12856	42856	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	12858	42858	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	12860	42860	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	12862	42862	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	12864	42864	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	12866	42866	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	12868	42868	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	12870	42870	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	12872	42872	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	12874	42874	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	12876	42876	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	12878	42878	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	12880	42880	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	12882	42882	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	12884	42884	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	12886	42886	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	12888	42888	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	12890	42890	Phase L3			10

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Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 46			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	12900	42900	Load Identifier (one-based)	uint32	N/A	2
name	12902	42902	Load name	string(40)	N/A	20
enabled	12922	42922	Load enabled	uint32	N/A	2
total_kWh	12924	42924	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	12926	42926	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	12928	42928	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	12930	42930	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	12932	42932	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	12934	42934	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	12936	42936	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	12938	42938	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	12940	42940	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	12942	42942	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	12944	42944	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	12946	42946	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	12948	42948	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	12950	42950	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	12952	42952	Total current across all phases in Amperes	float32	amperes	2
total_kW	12954	42954	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	12956	42956	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	12958	42958	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	12960	42960	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	12962	42962	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	12964	42964	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	12966	42966	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	12968	42968	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	12970	42970				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	13000	43000	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	13002	43002	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	13004	43004	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	13006	43006	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	13008	43008	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	13010	43010	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	13012	43012	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	13014	43014	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	13016	43016	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	13018	43018	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	13020	43020	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	13022	43022	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	13024	43024	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	13026	43026	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	13028	43028	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	13030	43030	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	13032	43032	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	13034	43034	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	13036	43036	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	13038	43038	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	13040	43040	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	13042	43042	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	13044	43044	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	13046	43046	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	13048	43048	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	13050	43050	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	13060	43060	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	13062	43062	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	13064	43064	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	13066	43066	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	13068	43068	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	13070	43070	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	13072	43072	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	13074	43074	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	13076	43076	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	13078	43078	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	13080	43080	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	13082	43082	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	13084	43084	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	13086	43086	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	13088	43088	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	13090	43090	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	13092	43092	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	13094	43094	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	13096	43096	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	13098	43098	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	13100	43100	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	13102	43102	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	13104	43104	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	13106	43106	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	13108	43108	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	13110	43110	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	13120	43120	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	13122	43122	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	13124	43124	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	13126	43126	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	13128	43128	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	13130	43130	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	13132	43132	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	13134	43134	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	13136	43136	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	13138	43138	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	13140	43140	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	13142	43142	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	13144	43144	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	13146	43146	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	13148	43148	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	13150	43150	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	13152	43152	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	13154	43154	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	13156	43156	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	13158	43158	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	13160	43160	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	13162	43162	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	13164	43164	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	13166	43166	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	13168	43168	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	13170	43170	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 47			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	13180	43180	Load Identifier (one-based)	uint32	N/A	2
name	13182	43182	Load name	string(40)	N/A	20
enabled	13202	43202	Load enabled	uint32	N/A	2
total_kWh	13204	43204	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	13206	43206	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	13208	43208	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	13210	43210	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	13212	43212	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	13214	43214	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	13216	43216	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	13218	43218	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	13220	43220	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	13222	43222	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	13224	43224	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	13226	43226	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	13228	43228	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	13230	43230	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	13232	43232	Total current across all phases in Amperes	float32	amperes	2
total_kW	13234	43234	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	13236	43236	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	13238	43238	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	13240	43240	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	13242	43242	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	13244	43244	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	13246	43246	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	13248	43248	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	13250	43250				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	13280	43280	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	13282	43282	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	13284	43284	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	13286	43286	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	13288	43288	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	13290	43290	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	13292	43292	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	13294	43294	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	13296	43296	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	13298	43298	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	13300	43300	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	13302	43302	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	13304	43304	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	13306	43306	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	13308	43308	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	13310	43310	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	13312	43312	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	13314	43314	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	13316	43316	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	13318	43318	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	13320	43320	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	13322	43322	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	13324	43324	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	13326	43326	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	13328	43328	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	13330	43330	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	13340	43340	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	13342	43342	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	13344	43344	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	13346	43346	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	13348	43348	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	13350	43350	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	13352	43352	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	13354	43354	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	13356	43356	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	13358	43358	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	13360	43360	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	13362	43362	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	13364	43364	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	13366	43366	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	13368	43368	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	13370	43370	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	13372	43372	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	13374	43374	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	13376	43376	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	13378	43378	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	13380	43380	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	13382	43382	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	13384	43384	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	13386	43386	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	13388	43388	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	13390	43390	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	13400	43400	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	13402	43402	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	13404	43404	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	13406	43406	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	13408	43408	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	13410	43410	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	13412	43412	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	13414	43414	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	13416	43416	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	13418	43418	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	13420	43420	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	13422	43422	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	13424	43424	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	13426	43426	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	13428	43428	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	13430	43430	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	13432	43432	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	13434	43434	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	13436	43436	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	13438	43438	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	13440	43440	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	13442	43442	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	13444	43444	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	13446	43446	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	13448	43448	Phase L3 Polarity Correction	uint32	N/A	2
Phase_L3_Reserved	13450	43450	Phase L3			10

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Load 48			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
id	13460	43460	Load Identifier (one-based)	uint32	N/A	2
name	13462	43462	Load name	string(40)	N/A	20
enabled	13482	43482	Load enabled	uint32	N/A	2
total_kWh	13484	43484	Total Net active (real) energy (import - export) across all phases	float32	kilowatt-hour	2
total_kWh+	13486	43486	Total active (real) engergy delivered (import) across all phases	float32	kilowatt-hour	2
total_kWh-	13488	43488	Total active (real) energy received (export) across all phases	float32	kilowatt-hour	2
total_kvarh	13490	43490	Total Net reactive energy (import - export) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh+	13492	43492	Total reactive energy delivered (import: Q1+Q2) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh-	13494	43494	Total reactive energy received (export: Q3+Q4) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q1	13496	43496	Total reactive energy accumulated in Quadrant 1 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q2	13498	43498	Total reactive energy accumulated in Quadrant 2 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q3	13500	43500	Total reactive energy accumulated in Quadrant 3 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kvarh_Q4	13502	43502	Total reactive energy accumulated in Quadrant 4 across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh	13504	43504	Total Net apparent energy (import - export) across all phases	float32	kilovolt-amperes-hour	2
total_kVAh+	13506	43506	Total apparent energy delivered (import) across all phases	float32	kilovolt-amperes-reactive-hour	2
total_kVAh-	13508	43508	Total apparent energy received (exported) across all phases	float32	kilovolt-amperes-reactive-hour	2
vref	13510	43510	Voltage Reference Input used (1 or 2 to indicate Vin number)	uint32	N/A	2
total_amperage	13512	43512	Total current across all phases in Amperes	float32	amperes	2
total_kW	13514	43514	Total active (real) power across all phases	float32	kilowatt	2
total_kvar	13516	43516	Total reactive power across all phases	float32	kilovolt-amperes-reactive	2
total_kVA	13518	43518	Total apparent power across all phases	float32	kilovolt-amperes	2
total_aPF	13520	43520	Total apparent power factor across all phases	float32	power-factor	2
total_dPF	13522	43522	Total displacement (fundational frequency) power factor across all phases	float32	power-factor	2
total_THD	13524	43524	Total Harmonic Distortion across all phases	float32	percent	2
total_Demand_kW	13526	43526	Total present demand for active (real) power across all phases	float32	kilowatt	2
total_PD_kW	13528	43528	Total peak demand for active (real) power across all phase	float32	kilowatt	2
Reserved	13530	43530				30
Phase L1			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L1_id	13560	43560	Phase L1 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L1_enabled	13562	43562	Phase L1 enabled	uint32	N/A	2
Phase_L1_kWh	13564	43564	Phase L1 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L1_kWh+	13566	43566	Phase L1 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L1_kWh-	13568	43568	Phase L1 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L1_kvarh	13570	43570	Phase L1 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh+	13572	43572	Phase L1 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh-	13574	43574	Phase L1 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q1	13576	43576	Phase L1 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q2	13578	43578	Phase L1 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q3	13580	43580	Phase L1 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kvarh_Q4	13582	43582	Phase L1 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh	13584	43584	Phase L1 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L1_kVAh+	13586	43586	Phase L1 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_kVAh-	13588	43588	Phase L1 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L1_amperage	13590	43590	Phase L1 current in amperes	float32	amperes	2
Phase_L1_kW	13592	43592	Phase L1 active (real) power)	float32	kilowatt	2
Phase_L1_kvar	13594	43594	Phase L1 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L1_kVA	13596	43596	Phase L1 apparent power	float32	kilovolt-amperes	2
Phase_L1_aPF	13598	43598	Phase L1 apparent power factor	float32	power-factor	2
Phase_L1_dPF	13600	43600	Phase L1 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L1_THD	13602	43602	Phase L1 total harmonic distortion	float32	percent	2
Phase_L1_Demand_kW	13604	43604	Phase L1 present demance for active (real) power	float32	kilowatt	2
Phase_L1_PD_kW	13606	43606	Phase L1 peak demand for active (real) power	float32	kilowatt	2
Phase_L1_PC	13608	43608	Phase L1 Polarity Correction	uint32	N/A	2
Phase_L1_Reserved	13610	43610	Phase L1			10
Phase L2			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L2_id	13620	43620	Phase L2 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L2_enabled	13622	43622	Phase L2 enabled	uint32	N/A	2
Phase_L2_kWh	13624	43624	Phase L2 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L2_kWh+	13626	43626	Phase L2 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L2_kWh-	13628	43628	Phase L2 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L2_kvarh	13630	43630	Phase L2 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh+	13632	43632	Phase L2 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh-	13634	43634	Phase L2 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q1	13636	43636	Phase L2 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q2	13638	43638	Phase L2 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q3	13640	43640	Phase L2 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kvarh_Q4	13642	43642	Phase L2 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh	13644	43644	Phase L2 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L2_kVAh+	13646	43646	Phase L2 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_kVAh-	13648	43648	Phase L2 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L2_amperage	13650	43650	Phase L2 current in amperes	float32	amperes	2
Phase_L2_kW	13652	43652	Phase L2 active (real) power)	float32	kilowatt	2
Phase_L2_kvar	13654	43654	Phase L2 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L2_kVA	13656	43656	Phase L2 apparent power	float32	kilovolt-amperes	2
Phase_L2_aPF	13658	43658	Phase L2 apparent power factor	float32	power-factor	2
Phase_L2_dPF	13660	43660	Phase L2 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L2_THD	13662	43662	Phase L2 total harmonic distortion	float32	percent	2
Phase_L2_Demand_kW	13664	43664	Phase L2 present demance for active (real) power	float32	kilowatt	2
Phase_L2_PD_kW	13666	43666	Phase L2 peak demand for active (real) power	float32	kilowatt	2
Phase_L2_PC	13668	43668	Phase L2 Polarity Correction	uint32	N/A	2
Phase_L2_Reserved	13670	43670	Phase L2			10
Phase L3			**Data Format: Big-Endian (high byte first; i.e. most significant byte first)**			
Phase_L3_id	13680	43680	Phase L3 Identifier (Assigned CT#)	uint32	N/A	2
Phase_L3_enabled	13682	43682	Phase L3 enabled	uint32	N/A	2
Phase_L3_kWh	13684	43684	Phase L3 net active (real) energy (import-export)	float32	kilowatt-hour	2
Phase_L3_kWh+	13686	43686	Phase L3 active (real) energy delivered (import)	float32	kilowatt-hour	2
Phase_L3_kWh-	13688	43688	Phase L3 active (real) energy received (export)	float32	kilowatt-hour	2
Phase_L3_kvarh	13690	43690	Phase L3 net reactive energy (import - export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh+	13692	43692	Phase L3 reactive energy delivered (import: Q1+Q2)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh-	13694	43694	Phase L3 reactive energy received (export: Q3+Q4)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q1	13696	43696	Phase L3 reactive energy accumulated in Q1	float32	kilovolt-amperes-reactive-hour	2

Modbus Register Name	Absolute Address	Modbus Register	Item Description	Data Type	Unit of Measure	# of registers
Phase_L3_kvarh_Q2	13698	43698	Phase L3 reactive energy accumulated in Q2	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q3	13700	43700	Phase L3 reactive energy accumulated in Q3	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kvarh_Q4	13702	43702	Phase L3 reactive energy accumulated in Q4	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh	13704	43704	Phase L3 net apparent energy (import - export)	float32	kilovolt-amperes-hour	2
Phase_L3_kVAh+	13706	43706	Phase L3 apparent energy delivered (import)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_kVAh-	13708	43708	Phase L3 apparent energy received (export)	float32	kilovolt-amperes-reactive-hour	2
Phase_L3_amperage	13710	43710	Phase L3 current in amperes	float32	amperes	2
Phase_L3_kW	13712	43712	Phase L3 active (real) power)	float32	kilowatt	2
Phase_L3_kvar	13714	43714	Phase L3 reactive power	float32	kilovolt-amperes-reactive	2
Phase_L3_kVA	13716	43716	Phase L3 apparent power	float32	kilovolt-amperes	2
Phase_L3_aPF	13718	43718	Phase L3 apparent power factor	float32	power-factor	2
Phase_L3_dPF	13720	43720	Phase L3 displacement (fundamental frequency) power factor	float32	power-factor	2
Phase_L3_THD	13722	43722	Phase L3 total harmonic distortion	float32	percent	2
Phase_L3_Demand_kW	13724	43724	Phase L3 present demance for active (real) power	float32	kilowatt	2
Phase_L3_PD_kW	13726	43726	Phase L3 peak demand for active (real) power	float32	kilowatt	2
Phase_L3_PC	13728	43728	Phase L3 Polarity Correction	uint32	N/A	2