



PS-30 Series Specifications



Features:

- Universal AC input/ full range
- Protections: Short Circuit / Overload / Over Voltage
- Cooling by free air convection
- DIN rail mountable
- Isolation class II
- LED indicator for power on
- 100% full load burn-in test
- 3 year warranty

OUTPUT

Cat. No.	PS-3005	PS-3012	PS-3015	PS-3024
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DC VOLTAGE	5V	12V	15V	24V
RATED CURRENT	3A	2A	2A	1.5A
CURRENT RANGE	0 ~ 3A	0 ~ 2A	0 ~ 2A	0 ~ 1.5A
RATED POWER	15W	24W	30W	36W
RIPPLE & NOISE (max)	80mVp-p	120mVp-p	120mVp-p	150mVp-p
<small>Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor</small>				
VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V
VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%	±1.0%
<small>Tolerance: includes set up tolerance, line regulation and load regulation.</small>				
LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME	100ms, 30ms / 230VAC	100ms, 30ms / 115VAC at full load		
HOLD UP TIME (Typ.)	100ms / 230VAC	21ms / 115VAC at full load		

INPUT

VOLTAGE RANGE	85 ~ 264VAC	120 ~ 370VDC		
FREQUENCY RANGE	47 ~ 63Hz			
EFFICIENCY (Typ.)	74%	81%	82%	83%
AC CURRENT (Typ.)	0.88A / 115VAC	0.48A / 230VAC		
INRUSH CURRENT (Typ.)	COLD START 15A / 115VAC; 30A / 230VAC			

PROTECTION

OVERLOAD	105 ~ 160% rated output power <small>Protection type: Constant current limiting recovers automatically after fault condition is removed</small>			
OVERVOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V
<small>Protection type: Shut down overvoltage, clamping by zener diode</small>				

ENVIRONMENT

WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)			
WORKING HUMIDITY	20 ~ 90% RH non-condensing			
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH			
TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)			
VIBRATION	Component: 10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes			
MOUNTING	Compliance to IEC60068-2-6			

SAFETY & EMC

SAFETY STANDARDS	UL60950-1 EN60950-1 compliant Design refer to EN50178			
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC			
ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC			
EMI CONDUCTION & RADIATION	Compliance to EN55011 EN55022 (CISPR22) Class B Compliance to EN61000-3-2,-3			
HARMONIC CURRENT	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024; ENV50204; EN61000-6-2; EN61204-3;			
EMS IMMUNITY	heavy industry level; criteria A <small>The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</small>			

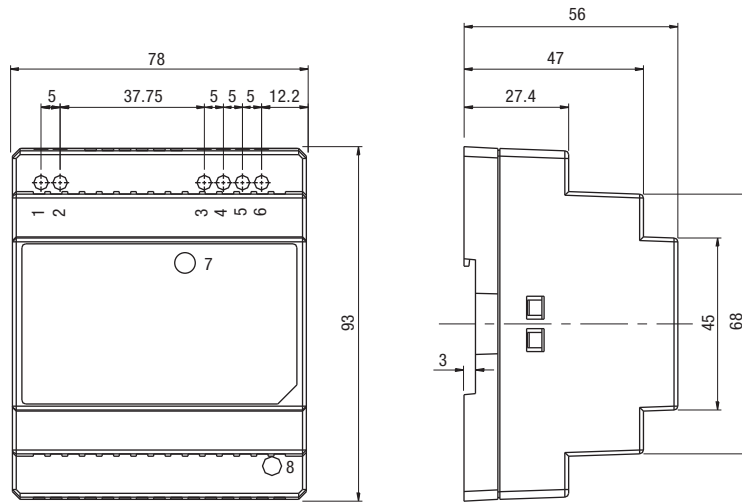
OTHERS

MTBF	441.5K hrs min. MIL-HDBK-217K (25°C)			
DIMENSION	78x93x56mm (WxHxD)			
PACKING	0.27Kg; 48pcs / 14Kg / 1.02CUFT			
<small>All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature</small>				

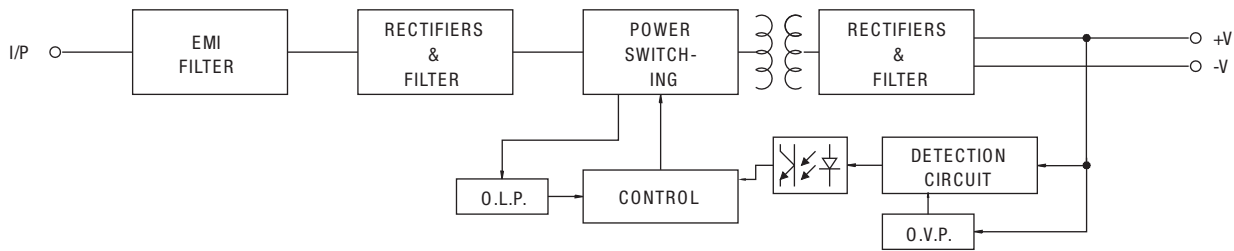
Mechanical Specification

Terminal Pin. No Assignment

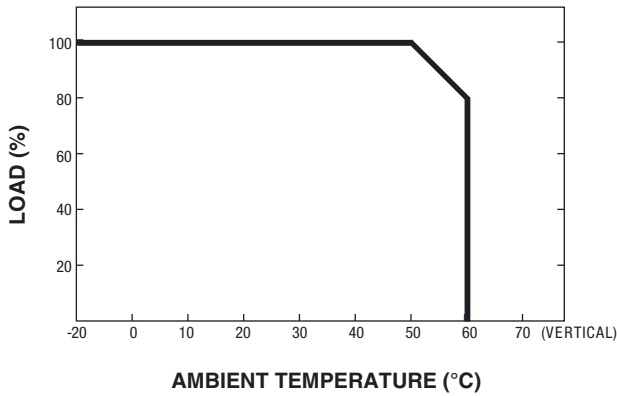
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5,6	-V
2	AC/N	7	LED
3,4	+V	8	+V ADJ.



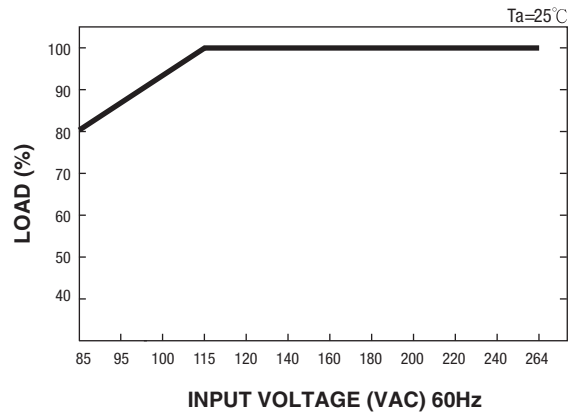
Block Diagram



Derating Curve



Output Derating VS Input Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.