



# PS-60 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-6005	PS-6012	PS-6015	PS-6024
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DC VOLTAGE	5V	12V	15V	24V
RATED CURRENT	6.5A	4.5A	4A	2.5A
CURRENT RANGE	0 ~ 6.5A	0 ~ 4.5A	0 ~ 4A	0 ~ 2.5A
RATED POWER	32.5W	54W	60W	60W
RIPPLE & NOISE (max)	80mVp-p	120mVp-p	120mVp-p	150mVp-p

Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor

VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	11.1 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V
VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%	±1.0%

Tolerance: includes set up tolerance, line regulation and load regulation.

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	200ms, 30ms / 115VAC at full load		
HOLD UP TIME (Typ.)	100ms / 230VAC	23ms / 115VAC at full load		

## INPUT

VOLTAGE RANGE	85 ~ 264VAC	124 ~ 370VDC		
FREQUENCY RANGE	47 ~ 63Hz			
EFFICIENCY (Typ.)	76%	82%	83%	84%
AC CURRENT (max.)	1.2A / 115VAC	0.8A / 230VAC		
INRUSH CURRENT (Typ.)	COLD START 18A / 115VAC; 36A / 230VAC			

## PROTECTION

OVERLOAD	105 ~ 160% rated output power Protection type: Constant current limiting recovers automatically after fault condition is removed			
OVERVOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V

Protection type: Shut down overvoltage, re-power on to recover

## 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	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 (25°C; 70% RH)
EMI CONDUCTION & RADIATION	Compliance to EN55011 EN55022 (CISPR22) Class B
HARMONIC CURRENT	Compliance to EN61000-3-2,-3
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN55024; EN61000-6-2; EN61204-3; heavy industry level; criteria A

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.

## OTHERS

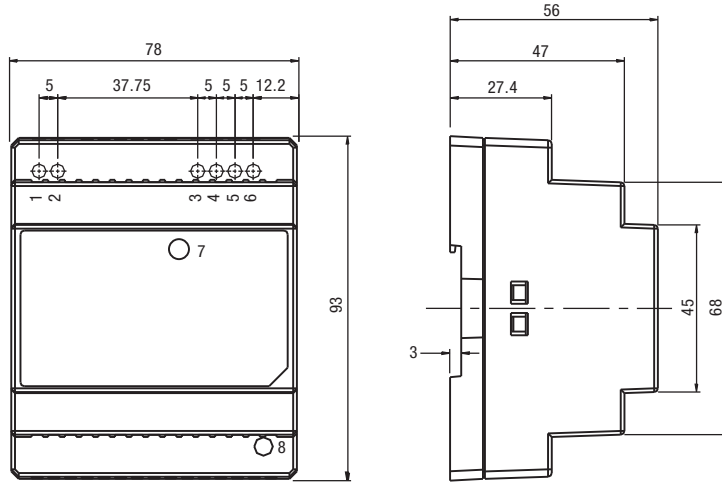
MTBF	216.2K hrs min. MIL-HDBK-217K (25°C)
DIMENSION	78x93x56mm (WxHxD)
PACKING	0.3Kg; 48pcs / 15.4Kg / 1.02CUFT

All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature

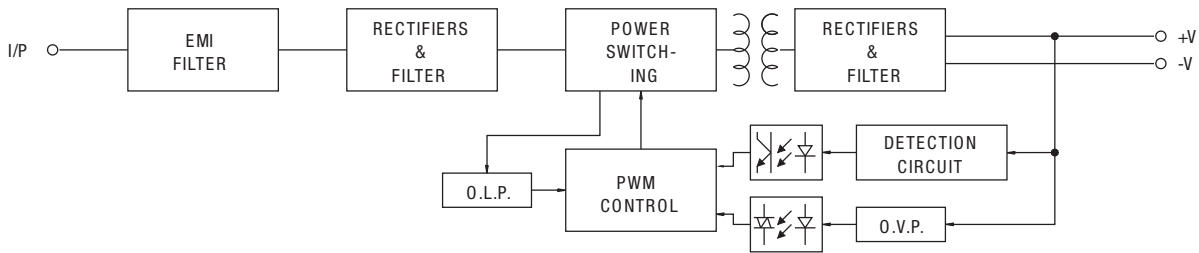
## Mechanical Specification

Terminal Pin. No Assignment

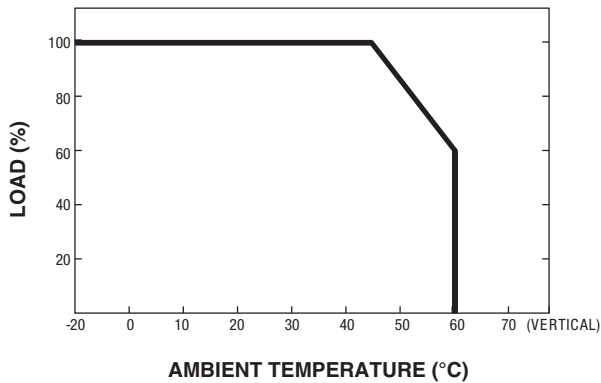
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5,6	-V
2	AC/N	7	LED
3,4	+V	8	+V ADJ.



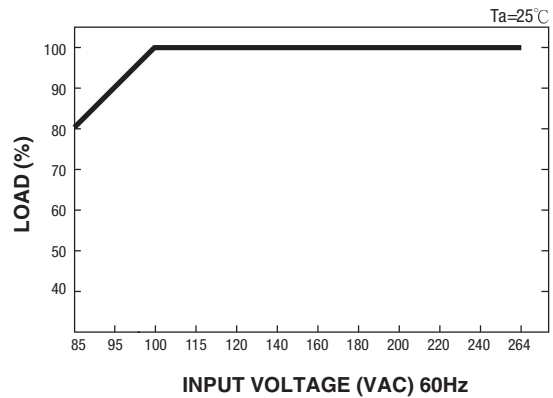
## Block Diagram



## Derating Curve



## Output Derating VS Input Voltage



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