PS-100 Series
Specifications

Features:

- Universal AC input / full range
- Protections: Short Circuit / Overload / Over Voltage / Overtemperature
- Cooling by free air convection
- DIN rail mountable
- Isolation class II
- LED indicator for power on
- No load power consumption<1W
- 100% full load burn-in test
- 3 year warranty

OUTPUT

Cat. No.	PS-10012	PS-10015	PS-10024
DC VOLTAGE	12V	15V	24V
RATED CURRENT	7.5A	6.5A	4.2A
CURRENT RANGE	0 ~ 7.5A	0 ~ 6.5A	0 ~ 4.2A
RATED POWER	90W	97.5W	100.8W
RIPPLE & NOISE (max)	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	12 ~ 15V	15 ~ 18V	24 ~ 29V
VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%
	Tolerance: includes set up tolerance, line regulation and load regulation.		
LINE REGULATION	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME	2700ms, 80ms / 230VAC	2700ms, 80ms / 115VAC at full load	
HOLD UP TIME (Typ.)	50ms / 230VAC	18ms / 115VAC at full load	

INPUT

VOLTAGE RANGE	88 ~ 264VAC	124 ~ 370VDC	
FREQUENCY RANGE	47 ~ 63Hz		
EFFICIENCY (Typ.)	87%	87%	89%
AC CURRENT (max.)	3A / 115VAC	1.6A / 230VAC	
INRUSH CURRENT (Typ.)	COLD START 30A / 115VAC;	45A / 230VAC	

PROTECTION

OVERLOAD	105 ~ 135% rated output power Protection type: Constant current limiting recovers automatically after fault condition is removed Under short circuit or overload ≥ 150% conditions, output voltage may shut down for 5 sec. and then go into constant current protection mode		
OVERVOLTAGE	16 ~ 20V	19 ~ 23V	30 ~ 35V
	Protection type: Shut down overvoltage, re-power on to recover		
OVERTEMPERATURE	90°C± 15°C(RTH2) detect on heat sink of power transistor 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 EN60950-1compliant 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 EN61204-3; EN55022 (CISPR22) Class B
HARMONIC CURRENT	Compliance to EN61000-3-2,-3 Harmonic current test @ 90% load
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 is still meets EMC directives.

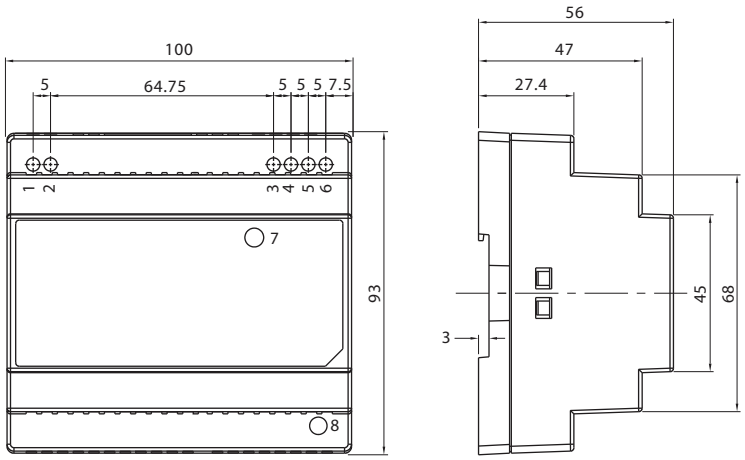
OTHERS

MTBF	486K hrs min. MIL-HDBK-217K (25°C)
DIMENSION	100x93x56mm (WxHxD)
PACKING	0.35Kg; 36pcs / 13.6Kg / 0.89CUFT
NOTE	All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°Cof ambient temperature.

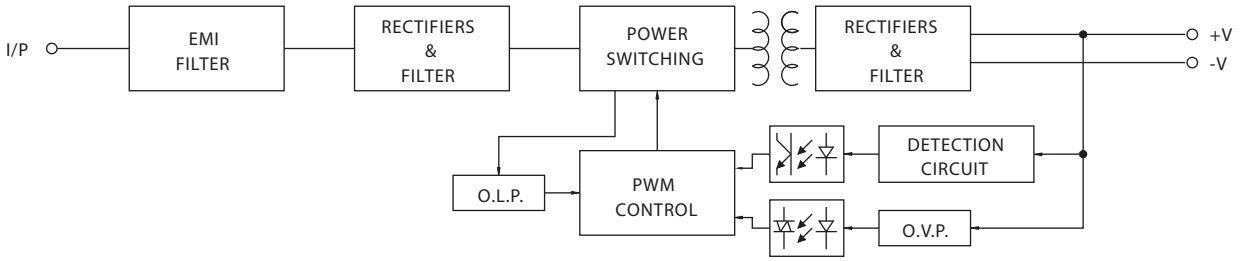
Mechanical Specification

Terminal Pin. No Assignment

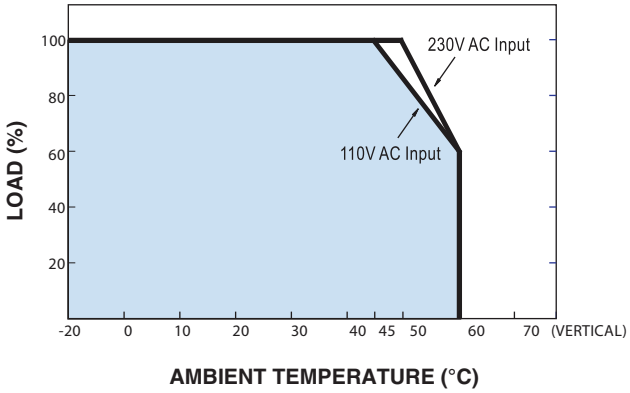
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5,6	-V
2	AC/N	7	LED
3,4	+V	8	+V ADJ.



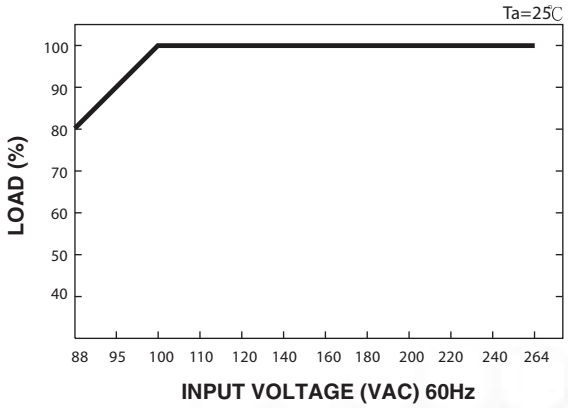
Block Diagram



Derating Curve



Output Derating VS Input Voltage



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