



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

DC VOLTAGE
RATED CURRENT
CURRENT RANGE
RATED POWER
RIPPLE & NOISE (max)

5V
3A
0 ~ 3A
15W
80mVp-p

12V
2A
0 ~ 2A
24W
120mVp-p

15V
2A
0 ~ 2A
30W
120mVp-p

24V
1.5A
0 ~ 1.5A
36W
150mVp-p

VOLTAGE ADJ. RANGE
VOLTAGE TOLERANCE

4.75 ~ 5.5V
±2.0%

10.8 ~ 13.2V
±1.0%

13.5 ~ 16.5V
±1.0%

21.6 ~ 26.4V
±1.0%

LINE REGULATION
LOAD REGULATION

±1.0%
±1.0%

±1.0%
±1.0%

±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

OVERVOLTAGE

5.75 ~ 6.75V

13.8 ~ 16.2V

17.25 ~ 20.25V

27.6 ~ 32.4V

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
Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024; ENV50204; EN61000-6-2; EN61204-3; heavy industry level; criteria A

HARMONIC CURRENT

EMS IMMUNITY

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

441.5K hrs min. MIL-HDBK-217K (25°C)

DIMENSION

78x93x56mm (WxHxD)

PACKING

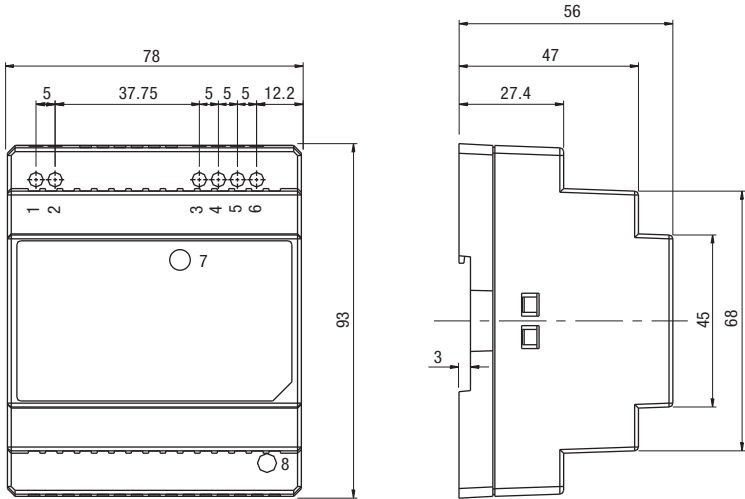
0.27Kg; 48pcs / 14Kg / 1.02CUFT

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

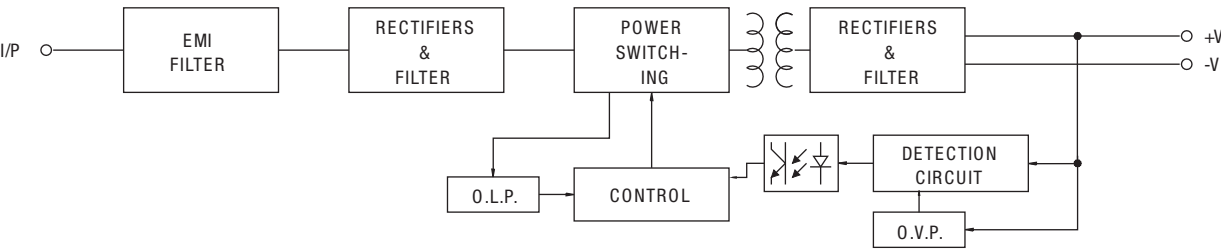
Mechanical Specification

Terminal Pin. No Assignment

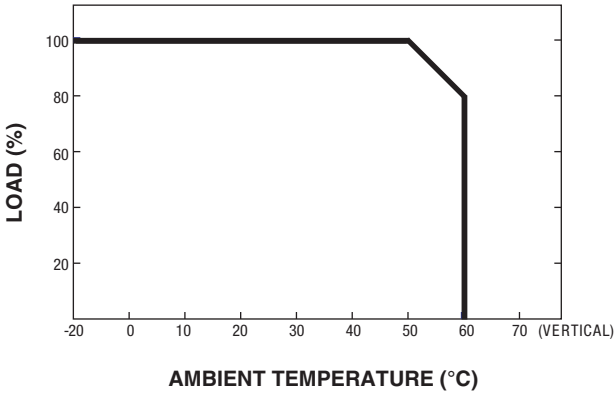
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5,6	-V
2	AC/N	7	LED
3,4	+V	8	+V ADJ.



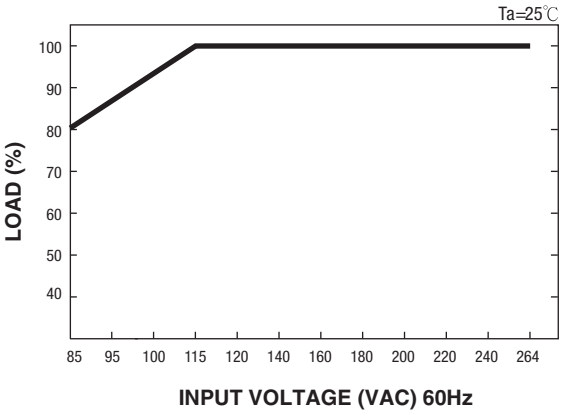
Block Diagram



Derating Curve



Output Derating VS Input Voltage



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