



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	12V	15V	24V
3A	2A	2A	1.5A
0 ~ 3A	0 ~ 2A	0 ~ 2A	0 ~ 1.5A
15W	24W	30W	36W
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
VOLTAGE TOLERANCE

4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V
±2.0%	±1.0%	±1.0%	±1.0%

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

LINE REGULATION
LOAD REGULATION

±1.0%	±1.0%	±1.0%	±1.0%
±1.0%	±1.0%	±1.0%	±1.0%

SETUP, RISE TIME
HOLD UP TIME (Typ.)

100ms, 30ms / 230VAC	100ms, 30ms / 115VAC at full load
100ms / 230VAC	21ms / 115VAC at full load

INPUT

VOLTAGE RANGE
FREQUENCY RANGE
EFFICIENCY (Typ.)
AC CURRENT (Typ.)
INRUSH CURRENT (Typ.)

85 ~ 264VAC	120 ~ 370VDC
47 ~ 63Hz	
74%	81%
0.88A / 115VAC	0.48A / 230VAC
COLD START 15A / 115VAC; 30A / 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
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Protection type: Shut down overvoltage, clamping by zener diode

ENVIRONMENT

WORKING TEMP.
WORKING HUMIDITY
STORAGE TEMP., HUMIDITY
TEMP. COEFFICIENT
VIBRATION
MOUNTING

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

SAFETY & EMC

SAFETY STANDARDS

UL60950-1
EN60950-1 compliant
Design refer to EN50178

WITHSTAND VOLTAGE
ISOLATION RESISTANCE
EMI CONDUCTION & RADIATION

I/P-O/P: 3KVAC
I/P-O/P: 100M Ohms / 500VDC
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
DIMENSION
PACKING

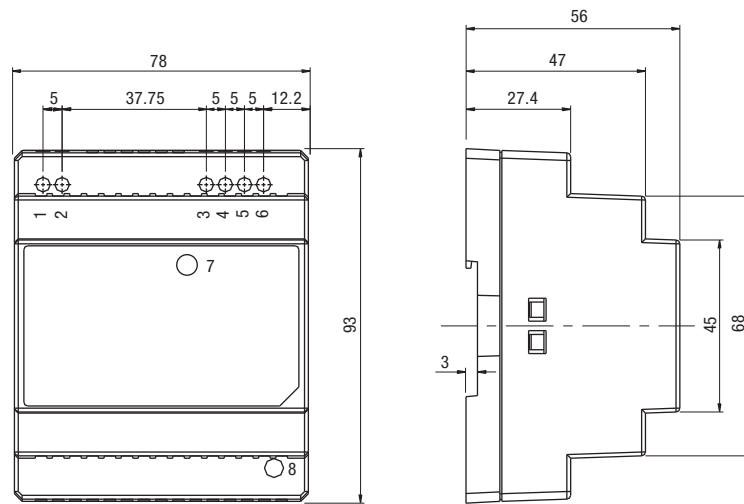
441.5K hrs min. MIL-HDBK-217K (25°C)
78x93x56mm (WxHxD)
0.27Kg; 48pcs / 14Kg / 1.02CUFT

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

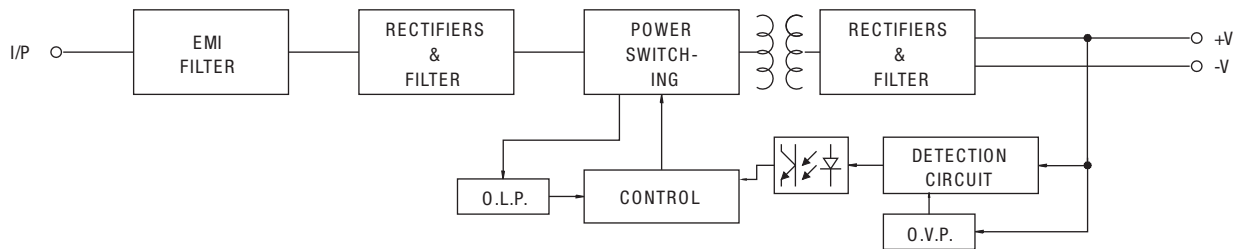
Mechanical Specification

Terminal Pin. No Assignment

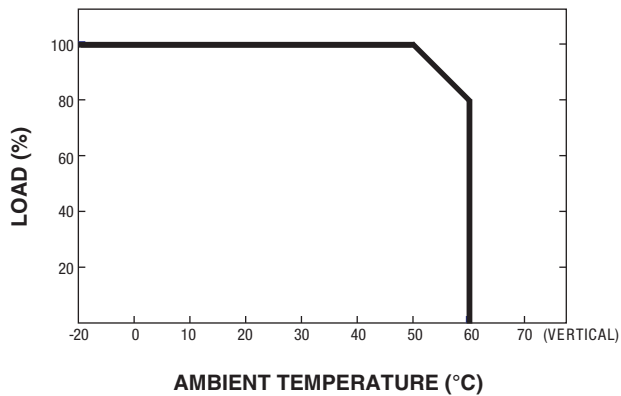
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5,6	-V
2	AC/N	7	LED
3,4	+V	8	+V ADJ.



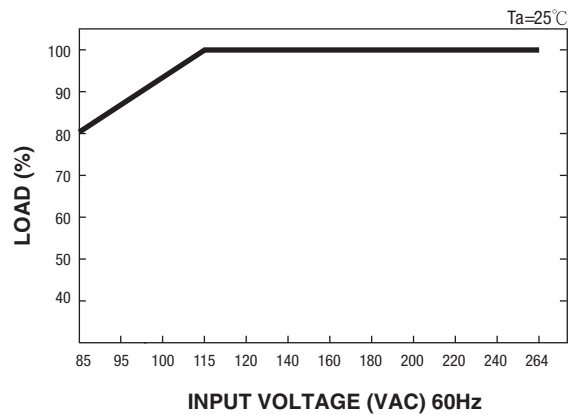
Block Diagram



Derating Curve



Output Derating VS Input Voltage



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