

PSV-100-12 series

100W Waterproof IP67 Single Output Switching Power Supply



■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Isolation class II
- Fully encapsulated with IP67 level
- Fully isolated plastic case

IP67   CE

ELECTRICAL SPECIFICATION

MODEL	PSV-100-12
OUTPUT	
Rated Voltage	12V
Rated Current	8.5A
Rated Power	102W
Current Range	0 ÷ 8.5A
Line Regulation	± 1%
Load Regulation	± 2%
Voltage Tolerance	[2] ± 3%
Ripple & Noise (max.)	[3] 480mV _{p-p}
INPUT	
Voltage Range	180 ÷ 264VAC; 254 ÷ 370VDC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	87%
AC current (typ.)	0.95A / 230VAC
PROTECTIONS	
Overload	Range: 110 ÷ 150 % rated output power
	Type: hiccup mode, recovers automatically after fault condition is removed.
Short circuit	Type: hiccup mode, recovers automatically after fault condition is removed.
Over voltage	Range: 16 ÷ 21VDC
	Type: Shut off output voltage, re-power on to recovery.

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WORKING ENVIRONMENT

Working Temperature	-20°C ÷ 60°C (Refer to Derating Curve)
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing
Vibration	10 ÷ 500Hz, 2G, 10min / cycle, period 60min. each along X, Y, Z axes

SAFETY AND EMC REGULATIONS

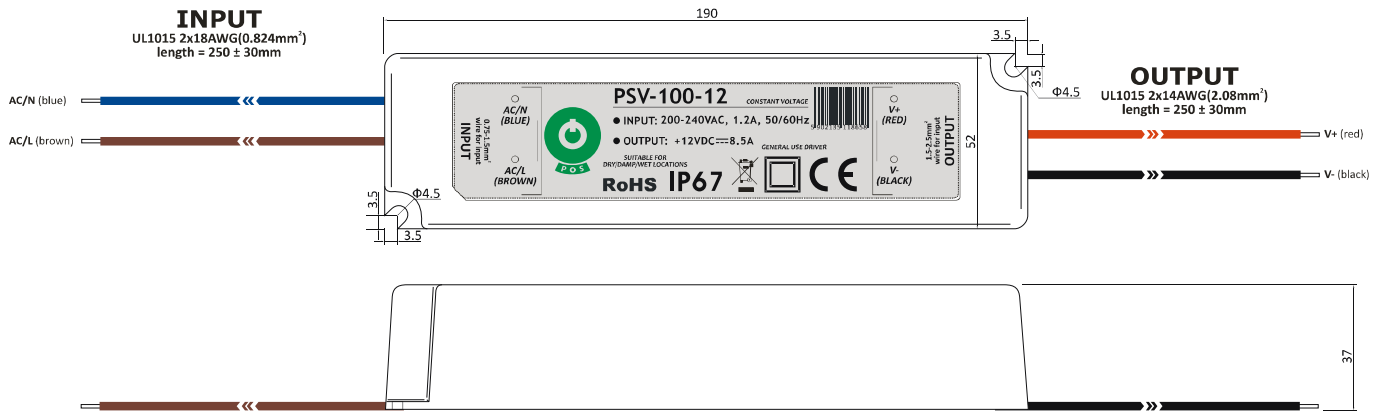
Safety Standards	I-P/O-P: 3kVAC
Withstand Voltage	Compliance to EN60950-1
Isolation Resistance	Compliance to EN55022
EMC Emission	Compliance to EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
EMC Immunity	Compliance to EN61000-3-3; EN61000-3-2
Harmonic Current	I-P/O-P: 100MΩ (500VDC/25°C/70%)

OTHERS

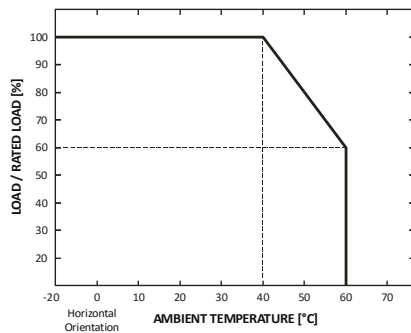
Dimensions	190 x 52 x 37mm (L x W x H)
Weight and Packing	600g; 35pcs./box; box weight and dimensions: 22kg; 40 x 26 x 29cm

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Tolerance includes set up tolerance, line regulation and load regulation.
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Power supply is considered as component not intended to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

MECHANICAL SPECIFICATION



DERATING CURVE



STATIC CHARACTERISTIC

