

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

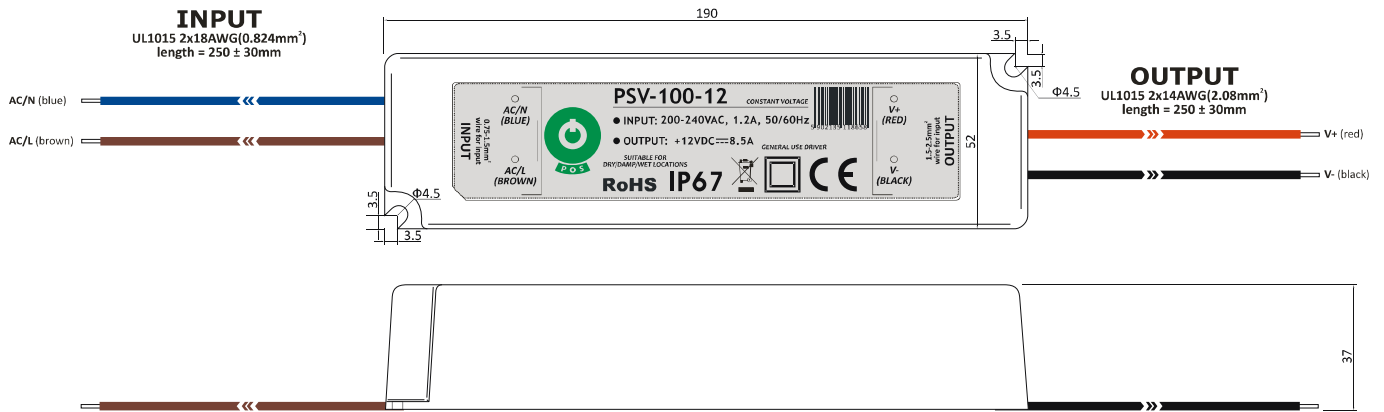
| | |
|-----------------------------|---|
| Safety Standards | I-P/O-P: 3kVAC |
| Withstand Voltage | Compliance to EN60950-1 |
| Isolation Resistance | Compliance to EN55022 |
| EMC Emission | Compliance to EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11 |
| EMC Immunity | Compliance to EN61000-3-3; EN61000-3-2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

OTHERS

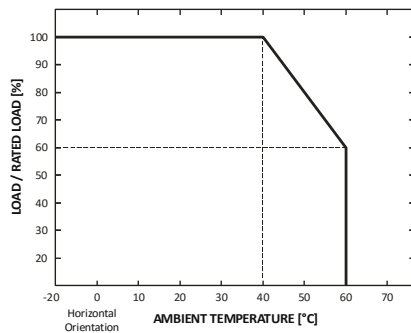
| | |
|---------------------------|---|
| Dimensions | 190 x 52 x 37mm (L x W x H) |
| Weight and Packing | 600g; 35pcs./box; box weight and dimensions: 22kg; 40 x 26 x 29cm |

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

