

PSV-12-12 series

12W 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

LPS IP67   CE

ELECTRICAL SPECIFICATION

MODEL	PSV-12-12
OUTPUT	
<i>Rated Voltage</i>	12V
<i>Rated Current</i>	1A
<i>Rated Power</i>	12W
<i>Current Range</i>	0 ÷ 1A
<i>Line Regulation</i>	± 1%
<i>Load Regulation</i>	± 2%
<i>Voltage Tolerance</i>	[2] ± 3%
<i>Ripple & Noise (max.)</i>	[3] 120mV _{p-p}
INPUT	
<i>Voltage Range</i>	180 ÷ 264VAC
<i>Frequency Range</i>	47 ÷ 63Hz
<i>Efficiency (typ.)</i>	77%
<i>AC current (typ.)</i>	0.14A / 230VAC
PROTECTIONS	
<i>Overload</i>	Range: 110 ÷ 150 % rated output power
	Type: hiccup mode, recovers automatically after fault condition is removed.
<i>Short circuit</i>	Type: hiccup mode, recovers automatically after fault condition is removed.
<i>Over voltage</i>	Range: 17 ÷ 26VDC
	Type: Shut off output voltage, recovers automatically after fault condition is removed.

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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 30min. each along X, Y, Z axes

SAFETY AND EMC REGULATIONS

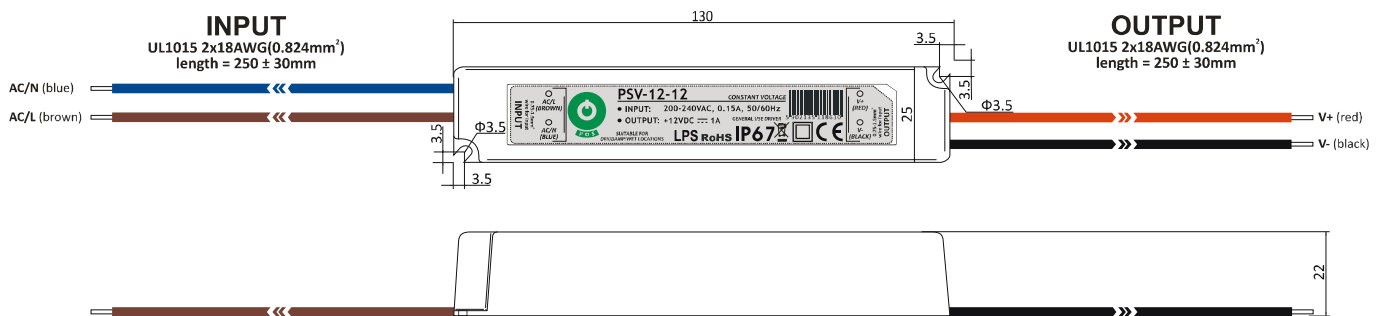
Safet Standards	Compliance to EN60950-1
Withstand Voltage	IN/OUT: 3kVDC/1min
Isolation Resistance	I-P/O-P: 100MΩ (500VDC/25°C/70%)
EMC Emission	Compliance to EN55022
EMC Immunity	Compliance to EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

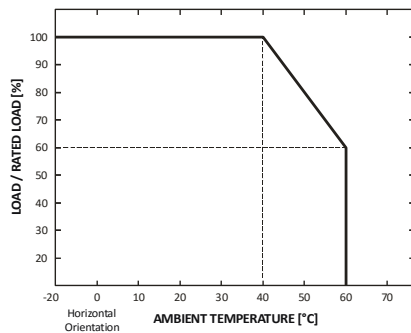
Dimensions	130 x 25 x 22mm (L x W x H)
Weight and Packing	120g; 64pcs./ctn; ctn weight and dimensions: 8.5kg; 34 x 24 x 18.5cm

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 indented 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

