

GPV-12 series

12W Single Output Switching Power Supply



■ Features:

- Constant voltage design
- Universal AC input / Full range
- Protections: Short circuit / Overcurrent / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Isolation class II
- UL1310 Class 2 power unit
- Fully encapsulated with IP67 level



ELECTRICAL SPECIFICATION

MODEL	GPV-12-12	GPV-12-24
OUTPUT		
DC VOLTAGE	12V	24V
RATED CURRENT	1A	0.5A
CURRENT RANGE	0 ÷ 1A	0 ÷ 0.5A
RATED POWER	12W	
LINE REGULATION	± 1%	
LOAD REGULATION	± 2%	
VOLTAGE TOLERANCE [3]	± 5%	
RIPPLE & NOISE (max.) [2]	120mV _{p-p}	
SETUP, RISE TIME [4]	500ms, 250ms at full load	
HOLD UP TIME (typ.)	50ms / 230VAC at full load	
INPUT		
VOLTAGE RANGE	90 ÷ 264VAC	
FREQUENCY RANGE	47 ÷ 63Hz	
EFFICIENCY (typ.)	76%	80%
AC CURRENT (typ.)	0.3A/115VAC, 0.14A / 230VAC	
INRUSH CURRENT (typ.)	30A / 230VAC	
LEAKAGE CURRENT(max.)	0.25mA / 240VAC	
PROTECTIONS		
OVERCURRENT	Range: 110 ÷ 180% Type: hiccup mode, auto-recovery.	
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.	
OVER VOLTAGE	13 ÷ 20V Type: hiccup mode, auto-recovery.	25 ÷ 36V

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ENVIRONMENT

WORKING TEMPERATURE	-30°C ÷ 70°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
TEMPERATURE COEFFICIENT	± 0.03% / °C (0°C ÷ 50°C)
VIBRATION	10 ÷ 500Hz, 2G, 10min / cycle, period for 60min. each along X, Y, Z axes

SAFETY & EMC REGULATIONS

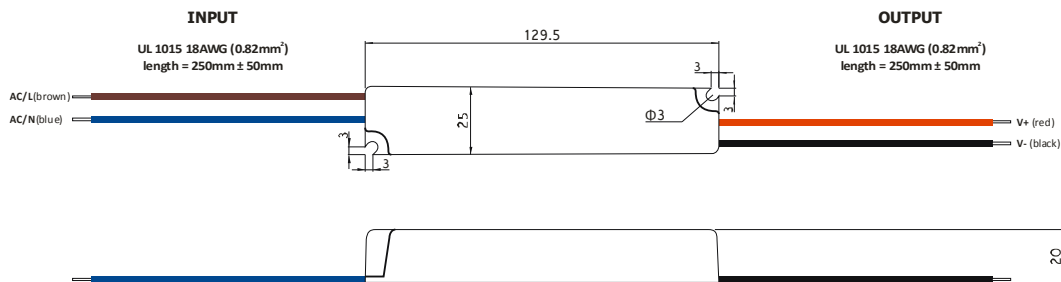
SAFETY STANDARDS	Compliance to EN61347-1, EN61347-2-13, IP67
WITHSTAND VOLTAGE	I-P/O-P: 3kVAC
ISOLATION RESISTANCE	I-P/O-P; O-P/FG; I-P/FG: 100MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
HARMONIC CURRENT	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

DIMENSIONS	129.5 x 25 x 20mm
WEIGHT AND PACKING	0.13kg; 100pcs./box; box weight and dimensions: 20kg; 34.5 x 29 x 19.5cm

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment must be re-qualified to comply with EMC Directives.

MECHANICAL SPECIFICATION



DERATING CURVE

