

# GPV-60 series

60W Single Output Switching Power Supply



## ■ Features:

- Constant voltage design
- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage
- Cooling by free air convection
- Isolation class II
- Class 2 power unit
- Fully encapsulated with IP67 level [5]



(for 12V, 24V)



## ELECTRICAL SPECIFICATION

MODEL	GPV-60-5	GPV-60-12	GPV-60-15	GPV-60-24	GPV-60-36
<b>OUTPUT</b>					
<b>RATED VOLTAGE</b>	5V	12V	15V	24V	36V
<b>RATED CURRENT</b>	8A	5A	4A	2.5A	1.67A
<b>CURRENT RANGE</b>	0 ÷ 8A	0 ÷ 5A	0 ÷ 4A	0 ÷ 2.5A	0 ÷ 1.67A
<b>RATED POWER</b>	40W	60W	60W	60W	60.12W
<b>LINE REGULATION</b>	± 1%				
<b>LOAD REGULATION</b>	± 3%	± 2%			
<b>TOLERANCE [3]</b>	± 5%				
<b>RIPPLE &amp; NOISE (max.) [2]</b>	200mV <sub>p-p</sub>	200mV <sub>p-p</sub>	300mV <sub>p-p</sub>	300mV <sub>p-p</sub>	350mV <sub>p-p</sub>
<b>SETUP, RISE TIME [4]</b>	1500ms, 800ms / 230VAC; 2500ms, 800ms / 230VAC at full load				
<b>HOLD UP TIME</b>	24ms / 115VAC, 50ms / 230VAC at full load				
<b>INPUT</b>					
<b>VOLTAGE RANGE</b>	90 ÷ 264VAC; 127 ÷ 370VDC				
<b>FREQUENCY RANGE</b>	47 ÷ 63Hz				
<b>EFFICIENCY (typ.)</b>	81%	82%	83%	84%	85%
<b>AC CURRENT (typ.)</b>	1.4A/115VAC, 0.7A / 230VAC				
<b>INRUSH CURRENT (typ.)</b>	70A / 230VAC, 35A / 115VAC				
<b>LEAKAGE CURRENT (max.)</b>	0.25mA / 240VAC				
<b>PROTECTIONS</b>					
<b>OVER CURRENT</b>	Range: 150 ÷ 200% rated current				
	Type: hiccup mode, auto-recovery.				
<b>SHORT CIRCUIT</b>	Type: hiccup mode, auto-recovery.				
<b>OVER VOLTAGE</b>	8 ÷ 11.5V	13.5 ÷ 18.5V	20 ÷ 24V	27 ÷ 33V	45 ÷ 54V
	Type: hiccup mode, auto-recovery.				

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## WORKING ENVIRONMENT

<b>WORKING TEMPERATURE</b>	-30°C ÷ 70°C (Refer to Derating Curve)
<b>WORKING HUMIDITY</b>	20 ÷ 9,% RH non-condensing
<b>STORAGE TEMPERATURE AND HUMIDITY</b>	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing
<b>TEMPERATURE COEFFICIENT</b>	± 0.03% / °C (0°C ÷ 50°C)
<b>VIBRATION</b>	10 ÷ 500Hz, 2G, 10min / cycle, period for 60min. each along X, Y, Z axes

## SAFETY AND EMC REGULATIONS

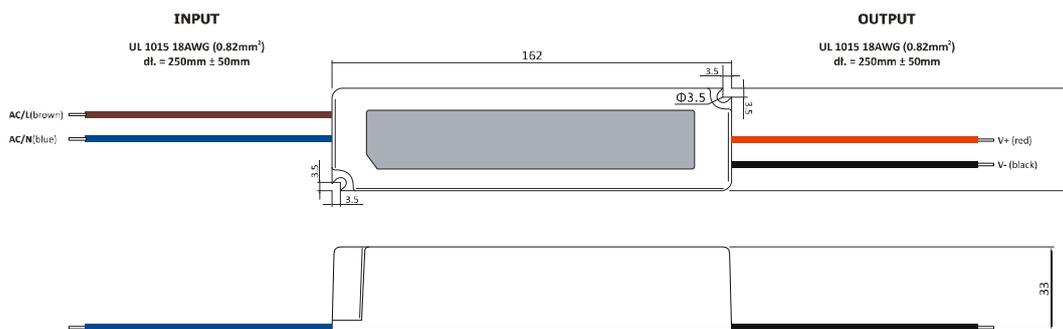
<b>SAFETY STANDARDS</b>	Compliance to EN61347-1, EN61347-2-13, IP67
<b>WITHSTAND VOLTAGE</b>	I-P/O-P: 3kVAC
<b>ISOLATION RESISTANCE</b>	I-P/O-P: 100MΩ/500VDC/25°C/70%
<b>EMC EMISSION</b>	Compliance to EN55015
<b>EMC IMMUNITY</b>	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
<b>HARMONIC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

## OTHERS

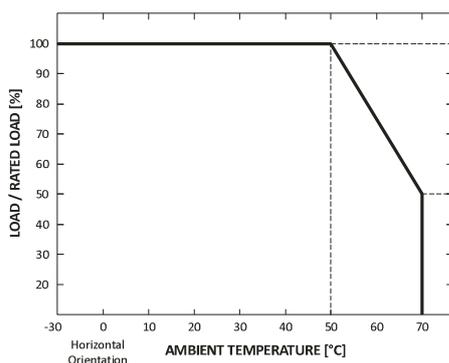
<b>DIMENSIONS</b>	162 x 42 x 33mm (L x W x H)
<b>WEIGHT AND PACKING</b>	0.39kg; 50pcs./box; box weight and dimensions: 20kg; 38.5 x 27.5 x 19.5cm

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. Suitable for indoor or outdoor use. Please avoid direct exposure to sunlight and immersion in water for over 30 minutes.
6. 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-qualify to comply with EMC Directives.

## MECHANICAL SPECIFICATION



### DERATING CURVE



### STATIC CHARACTERISTICS

