

# GPV-100E series

100W Constant Voltage Switching Power Supply



## ■ Features:

- Constant voltage design
  - European AC input
- Protections: Short circuit / Over current / Over voltage / Over temperature
  - Cooling by free air convection
    - Isolation class II
- Fully encapsulated with IP67 level [5]

CONSTANT VOLTAGE     IP67

## ELECTRICAL SPECIFICATION

MODEL	GPV-100-12E	GPV-100-24E				
<b>OUTPUT</b>						
<b>RATED VOLTAGE</b>	12V	24V				
<b>RATED CURRENT</b>	8.3A	4.2A				
<b>CURRENT RANGE</b>	0 ÷ 8.3A	0 ÷ 4.2A				
<b>RATED POWER</b>	99.6W	100.8W				
<b>LINE REGULATION</b>	± 3%					
<b>LOAD REGULATION</b>	± 3%					
<b>TOLERANCE [2]</b>	± 5%					
<b>RIPPLE &amp; NOISE (max.) [1]</b>	200mV <sub>p-p</sub>	200mV <sub>p-p</sub>				
<b>SETUP, RISE TIME [3]</b>	500ms / 230VAC					
<b>HOLD UP TIME</b>	500ms / 230VAC at full load					
<b>INPUT</b>						
<b>VOLTAGE RANGE</b>	190 ÷ 240VAC					
<b>FREQUENCY RANGE</b>	50 ÷ 60Hz					
<b>EFFICIENCY (typ.)</b>	88%	90%				
<b>AC CURRENT (typ.)</b>	1.0A / 230VAC					
<b>INRUSH CURRENT (typ.)</b>	34A / 240VAC at full load, T <sub>WIDTH</sub> = 480µs					
<b>Max. No. of PSU on Circuit Breaker</b>	B10	B16	C10	C16	D10	D16
	3	4	4	6	5	7
<b>LEAKAGE CURRENT (max.)</b>	<0.5mA / 240VAC					
<b>PROTECTIONS</b>						
<b>OVER CURRENT</b>	Range: above 150% rated current Type: hiccup mode, auto-recovery.					
<b>SHORT CIRCUIT</b>	Type: hiccup mode, auto-recovery.					
<b>OVER VOLTAGE</b>	>24VDC	> 50VDC				
	Type: hiccup mode, auto-recovery.					
<b>OVER TEMPERATURE</b>	Type: Shut-off, auto-recovery.					

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## WORKING ENVIRONMENT

<b>WORKING TEMPERATURE</b>	-20°C ÷ 70°C (Refer to Derating Curve)
<b>WORKING HUMIDITY</b>	20 ÷ 90% RH non-condensing
<b>STORAGE TEMPERATURE AND HUMIDITY</b>	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing

## SAFETY AND EMC REGULATIONS

<b>SAFETY STANDARDS</b>	Compliance to EN61347-1, EN61347-2-13
<b>WITHSTAND VOLTAGE</b>	I-P/O-P: 3.00kVAC
<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
<b>HARMONIC CURRENT</b>	Compliance to EN61000-3-3; EN61000-3-2

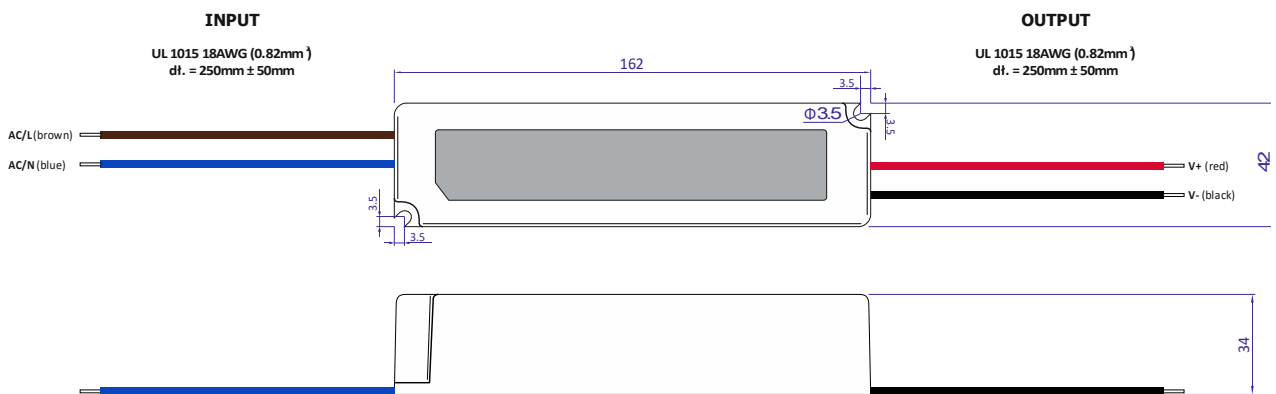
## OTHERS

<b>DIMENSIONS</b>	162 x 42 x 34 mm (L x W x H)
<b>WEIGHT AND PACKING</b>	0.39kg; 50pcs./ctn; ctn weight and dimensions: 20kg; 38.5 x 27.5 x 19.5cm

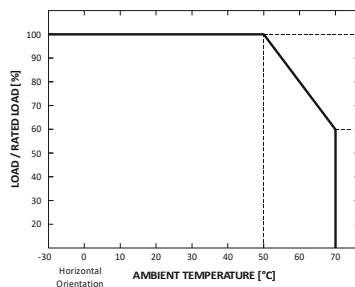
<b>EAN code</b>	 5 1902135 123478	 5 1902135 123485
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1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire 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 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



### DERATIG CURVE



### STATIC CHARACTERISTIC

