

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

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WORKING ENVIRONMENT

WORKING TEMPERATURE	-20°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

SAFETY AND EMC REGULATIONS

SAFETY STANDARDS	Compliance to EN61347-1, EN61347-2-13
WITHSTAND VOLTAGE	I-P/O-P: 3.00kVAC
ISOLATION RESISTANCE	I-P/O-P: 100MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN61547
HARMONIC CURRENT	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

<i>DIMENSIONS</i>	162 x 42 x 34 mm (L x W x H)	
<i>WEIGHT AND PACKING</i>	0.39kg; 50pcs./ctn; ctn weight and dimensions: 20kg; 38.5 x 27.5 x 19.5cm	
<i>EAN code</i>	 51902135123478	 51902135123485

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-qualified to comply with EMC Directives.

MECHANICAL SPECIFICATION

