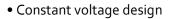
## **GPV-100** series

100W Constant Voltage Switching Power Supply

Burry CCOSE SELV POL



#### ■ Features:



• Universal AC input range

• Protections: Short circuit / Over current / Over voltage

• Cooling by free air convection

• Isolation class II

• Fully encapsulated with IP67 level [5]

• TUV certificate (only for 12V and 24V)



### **2** ELECTRICAL SPECIFICATION

MODEL	GPV-100-12	GPV-100-15	GPV-100-24	GPV-100-36
ΟυΤΡυΤ				
RATED VOLTAGE	12V	15V	24V	36V
RATED CURRENT	8.3A	6.7A	4.2A	2.8A
CURRENT RANGE	0 ÷ 8.3A	0 ÷ 6.7A	0÷4.2A	0÷2.8A
RATED POWER	99.6W	100.5W	100.8W	100.8W
LINE REGULATION	± 1%			
LOAD REGULATION	± 2%			
TOLERANCE [3]	± 3%			
RIPPLE & NOISE (max.) [2]	200mV <sub>P-P</sub>	200mV <sub>P-P</sub>	200mV <sub>P-P</sub>	250mV <sub>P-P</sub>
SETUP, RISE TIME [4]	700ms, 50ms / 230VAC at full load			
HOLD UP TIME (typ.)	40ms / 230VAC at full load			

INPUT						
VOLTAGE RANGE	90÷264VAC					
FREQUENCY RANGE	47 ÷ 63Hz					
EFFICIENCY (typ.)	85%	86%		88%	88%	
AC CURRENT (typ.)	1.8A / 115VAC	, 0.9A / 230VAC				
INRUSH CURRENT (typ.)	35A / 230VAC;	T <sub>width</sub> = 1200μs				
Max. No. of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	2	3	3	4	3	5
LEAKAGE CURRENT (max.)	0.25mA / 240\	/AC				

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#### PROTECTIONS

OVER CURRENT	Range: 110% ÷ 150% rated current				
	Type: hiccup mode, auto-recovery.				
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.				
	Max. 24V	Max. 30V	Max. 48V	Max. 58V	
OVER VOLTAGE	Type: hiccup mo	de, auto-recovery.			

#### WORKING ENVIRONMENT

WORKING TEMPERATURE	-30°C ÷ 70°C (Refer to Derating Curve)		
	12V, 15V: ta: 40°C; tc: 80°C; 24V, 36V: ta: 50°C; tc: 90°C		
WORKING HUMIDITY	20 ÷ 95% RH non-condensing		
STORAGE TEMPERATURE AND HUMIDITY	DITY -40°C ÷ 80°C, 10 ÷ 95% RH non-condensing		
TEMPERATURE COEFFICIENT	<i>IRE COEFFICIENT</i> ± 0.03% / °C (0°C ÷ 50°C)		
VIBRATION	TION 10 ÷ 500Hz, 2G, 10min / cycle, period for 72min. each along X, Y, Z axes		

#### SAFETY AND EMC REGULATIONS

SAFETY STANDARDS	Compliance to TUV EN61347-1, EN61347-2-13, IP67
WITHSTAND VOLTAGE	I-P/O-P: 3kVAC
ISOLATION RESISTANCE	I-P/O-P: 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

# OTHERSLIFETIME40 000 hours at 230VAC input, ambient temperatury 25°C, full loadDIMENSIONS190 x 52 x 37mm (L x W x H)WEIGHT AND PACKING0.6kg; 20pcs./ctn; ctn weight and dimensions: 12.5kg; 23.5 x 25.5 x 24cm

EAN Code







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.

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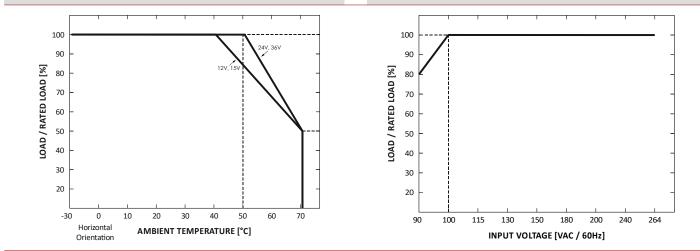


#### **MECHANICAL SPECIFICATION**



**DERATING CURVE** 

**2 STATIC CHARACTERISTIC** 



#### **2 LIFETIME vs. AMBIENT TEMPERATURE CURVE**

