GPV-100 series

100W Constant Voltage Switching Power Supply





■ Features:

- Constant voltage design
- European 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)

CONSTANT VOLTAGE SELV









©ELECTRICAL	SPECIFICATION
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MODEL	GPV-100-12	GPV-100-15	GPV-100-24	GPV-100-36	
ОИТРИТ	1				
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 _{P-P}	200mV _{P-P}	200mV _{P-P}	250mV _{P-P}	
SETUP, RISE TIME [4]	700ms, 50ms / 230VAC at full load				
HOLD UP TIME (typ.)	40ms / 230VAC at full load				

INPUT						
VOLTAGE RANGE	90 ÷ 264VAC	90 ÷ 264VAC				
FREQUENCY RANGE	47 ÷ 63Hz	47 ÷ 63Hz				
EFFICIENCY (typ.)	85%	86%		88%	88%	
AC CURRENT (typ.)	1.8A / 115VAC	1.8A / 115VAC, 0.9A / 230VAC				
INRUSH CURRENT (typ.)	35A / 230VAC;	35A / 230VAC; T _{WIDTH} = 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 / 240V	/AC				

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PROTECTIONS						
OVED CURRENT	Range: 110% ÷ 150% ra	Range: 110% ÷ 150% rated current				
OVER CURRENT	Type: hiccup mode, auto-recovery.					
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.					
OVER VOLTAGE	Max. 24V	Max. 30V	Max. 48V	Max. 58V		
OVER VOLTAGE	Type: hiccup mode, auto-recovery.					
WORKING ENVIRONMENT						
WORKING TEMPERATURE	-30°C ÷ 70°C (Refer to I	Derating Curve)				
WORKING TEIMPERATURE	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	-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 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					
OTHERS						
LIFETIME	40 000 hours at 230VAC input, ambient temperatury 25°C, full load					
DIMENSIONS	190 x 52 x 37mm (L x W x H)					
WEIGHT AND PACKING	0.6kg; 20pcs./ctn; ctn weight and dimensions: 12.5kg; 23.5 x 25.5 x 24cm					
EAN Code	5 901885 208251	5 90 21 35 122 8 22	5 901885 208268	5 902135 112663		

- 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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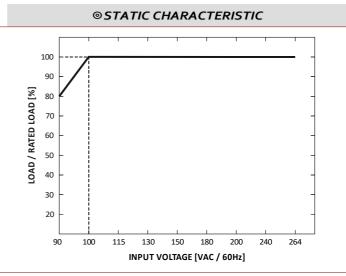
100W Constant Voltage Switching Power Supply



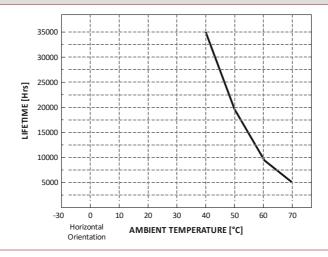
OMECHANICAL SPECIFICATION



ODERATING CURVE 100 90 LOAD / RATED LOAD [%] 80 70 60 50 40 30 20 -30 10 20 30 40 Horizontal AMBIENT TEMPERATURE [°C] Orientation



©LIFETIME vs. AMBIENT TEMPERATURE CURVE



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