GPV-50 series

50W Single Output Switching Power Supply





■ Features:

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



ELECTRICAL SPECIFICATION

MODEL	GPV-50-12	GPV-50-24
OUTPUT		
RATED VOLTAGE	12V	24V
RATED CURRENT	4A	2A
CURRENT RANGE	0 ÷ 4A	0 ÷ 2A
RATED POWER	48W	
LINE REGULATION	± 1%	
LOAD REGULATION	± 2%	
TOLERANCE [3]	± 3%	
RIPPLE & NOISE (max.) [2]	100mV _{P-P}	200mV _{P-P}
SETUP, RISE TIME [4]	500ms, 250ms / 230VAC; 1000ms, 250ms / 115VAC at full load	
HOLD UP TIME	50ms / 230VAC, 24ms / 115VAC at full load	
INPUT		
VOLTAGE RANGE	90 ÷ 264VAC; 127 ÷ 370VDC	
FREQUENCY RANGE	47 ÷ 63Hz	
EFFICIENCY (typ.)	82%	
AC CURRENT (typ.)	1.0A/115VAC, 0.55A / 230VAC	
INRUSH CURRENT (typ.)	70A / 230VAC, 35A / 115VAC	
LEAKAGE CURRENT (max.)	0.25mA / 240VAC	
PROTECTIONS		
OVER CURRENT	Range: 150 ÷ 200% rated current	
	Type: hiccup mode, auto-recovery.	
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.	
OVER VOLTAGE	13.5 ÷ 18.5V	27 ÷ 33V
	Type: hiccup mode, auto-recovery.	
OVER TEMPERATURE	140°C±10°C(detect on main control IC)	
	Type: shut down output voltage. Recovers automatically after temperature goes down.	

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GPV-50 series

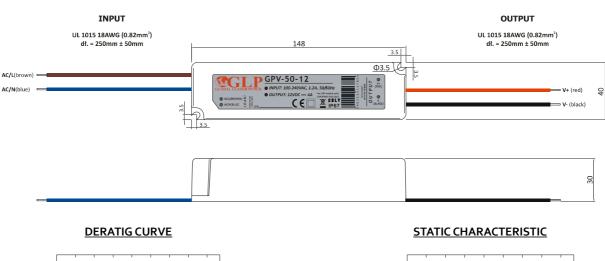
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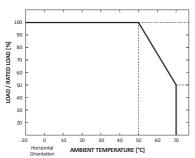


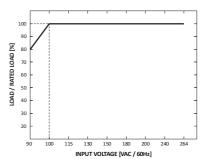
WORKING ENVIRONMENT		
WORKING TEMPERATURE	-20°C ÷ 70°C (Refer to Derating Curve)	
WORKING HUMIDITY	20 ÷ 90% RH non-condensing	
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing	
TEMPERATURE COEFFICIENT	± 0.03% / °C (0°C ÷ 50°C)	
VIBRATION	10 ÷ 500Hz, 2G, 10min / cycle, period for 60min. each along X, Y, Z axes	
SAFETY AND EMC REGULATIONS		
SAFETY STANDARDS	Compliance to 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		
DIMENSIONS	148 x 40 x 30mm (L x W x H)	
WEIGHT AND PACKING	0.34kg; 50pcs./ctn; ctn weight and dimensions: 18kg; 34.5 x 26.5 x 19cm	
Tolerance includes set up tolerance, line regulation and load Setup and rise time is measured from 0 to 90% rated output Suitable for indoor or outdoor use. Please avoid direct expos	ng a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor. regulation. voltage.	

MECHANICAL SPECIFICATION

re-quality to comply with EMC Directives.







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