GPV-12 series

12W Constant Voltage LED Power Supply



Features:

• Constant voltage design

• Universal AC input range

• Protections: Overload / Over voltage / Short circuit / Over Temperature

• Cooling by free air convection

• Isolation class II

• TUV certificate

• IP67 Protection level [5]





©ELECTRICAL SPECIFICATION

MODEL	GPV-12-12	GPV-12-24
OUTPUT		
Rated Voltage	12V	24V
Rated Current	1A	0.5A
Current Range	0÷1A	0÷0.5A
Rated Power	12W	
Line Regulation	± 1%	
Load Regulation	± 2%	
Tolerance [3]	± 5%	
Ripple & Noise (max.) [2]	120mV _{P-P}	120mV _{P-P}
Setup, Rise Time [4]	500ms, 20ms / 230VAC at full load	
Hold up Time (typ.)	20ms / 230VAC at full load	

INPUT

Voltage Range	90 ÷ 264VAC; 1	90 ÷ 264VAC; 127 ÷ 370VDC				
Frequency Range	47 ÷ 63Hz	47 ÷ 63Hz				
Efiiciency (typ.)	76%			79%		
AC Current (typ.)	0.29A / 115VA	0.29A / 115VAC, 0.14A / 230VAC				
Inrush Current (typ.)	6A / 230VAC; 1	6A / 230VAC; Τ _{width} (50% peak) = 230μs				
Max. No. Of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	42	68	56	90	64	100
Leakage Current (max.)	0.25mA / 240V	/AC				

GPV-12 series

12W Constant Voltage LED Power Supply



PROTECTIONS

Overload	Range: 110-160% rated power		
	Type: hiccup mode, auto-recov	ery.	
Short Circuit	Type: hiccup mode, auto-recov	ery.	
Over Voltage	Range: 13-20V	Range: 25-36V	
	Type: hiccup mode, auto-recov	ery.	
Over Temperature	140°C±10°C(detect on main co	ntrol IC)	
	Type: shut-off, auto-recovery.		

WORKING ENVIRONMENT		
Working Temperature	-30°C ÷ 70°C (refer to Derating Curve), ta: 50°C; tc: 80°C	
Working Humidity	20 ÷ 90% RH non-condensing	
Storage Temperature and Humidity	-30°C ÷ 80°C, 10 ÷ 95% RH non-condensing	

SAFETY and EMC REGULATIONS		
Safety Standards	Compliance to TUV EN 61347-1, TUV EN 61347-2-13, IP67	
Withstand Voltage	IN/OUT: 3kVAC	
Isolation Resistance	IN/OUT: 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

Lifetime	50 000 hours at 230VAC input, ambient temper	50 000 hours at 230VAC input, ambient temperatury 25°C, full load		
Dimensions	130 x 25 x 21.5mm (L x W x H)	130 x 25 x 21.5mm (L x W x H)		
Weight and Packing	130g; 100pcs./ctn; ctn weight and dimensions:	130g; 100pcs./ctn; ctn weight and dimensions: 13.5kg; 34.5 x 29 x 23cm		
EAN Code	5 901885 208213	5 9 0 1 8 8 5 2 0 8 2 2 0		

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.

Tolerance includes set up tolerance, line regulation and load regulation.
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.

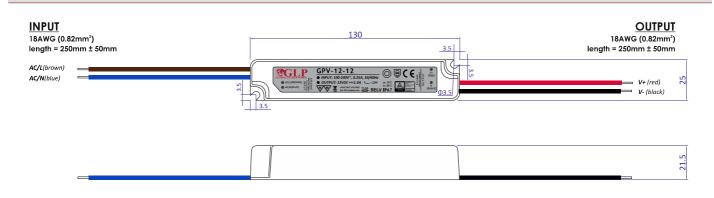
6. Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

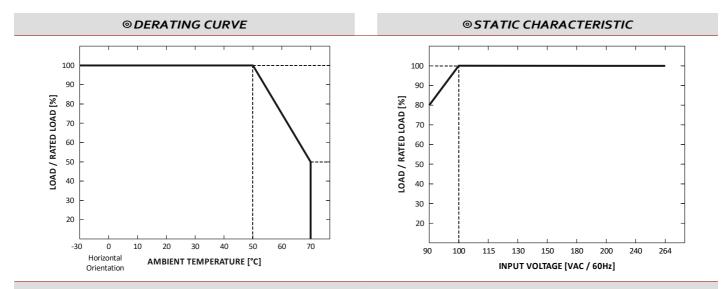
GPV-12 series

12W Constant Voltage LED Power Supply



® MECHANICAL SPECIFICATION





©LIFETIME vs. AMBIENT TEMPERATURE CURVE

