

# GPVP-25 series

25W Constant Voltage LED Power Supply with PFC function



## ■ Features:

- Constant voltage design
- Universal AC input range
  - Built-in PFC function
- Protections: Overload / Over voltage / Short circuit / Over Temperature
- Cooling by free air convection
  - Isolation class II
- Double insulation of Input and output wires
  - IP67 Protection level [5]

tc: 90°C  
ta: 50°C CONSTANT VOLTAGE



## ◎ ELECTRICAL SPECIFICATION

MODEL	GPVP-25-12	GPVP-25-24
<b>OUTPUT</b>		
Rated Voltage	12V	24V
Rated Current	2A	1A
Current Range	0 ÷ 2A	0 ÷ 1A
Rated Power	24W	
Line Regulation	± 1%	
Load Regulation	± 2%	
Tolerance [3]	± 3%	
Ripple & Noise (max.) [2]	200mV <sub>p-p</sub>	200mV <sub>p-p</sub>
Setup, Rise Time [4]	500ms, 15ms / 230VAC at full load	
Hold up Time (typ.)	20ms / 230VAC at full load	

<b>INPUT</b>		
Voltage Range	90 ÷ 264VAC; 127 ÷ 370VDC	
Frequency Range	47 ÷ 63Hz	
Efficiency (typ.)	82%	84%
AC Current (typ.)	0.32A / 115VAC, 0.15A / 230VAC	
Power Factor (typ.)	PF > 0.9 / 230VAC; PF > 0.95 / 115VAC	
Leakage Current (max.)	0.25mA / 240VAC	

<b>PROTECTIONS</b>		
Overload	Range: 110-150% rated power	
	Type: hiccup mode, auto-recovery.	
Short Circuit	Type: hiccup mode, auto-recovery.	
Over Voltage	Range: 14-19V	Range: 28-39V
	Type: hiccup mode, auto-recovery.	
Over Temperature	140°C±10°C(detect on main control IC)	
	Type: shut off, re-power on to recovery	

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## WORKING ENVIRONMENT

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

## SAFETY and EMC REGULATIONS

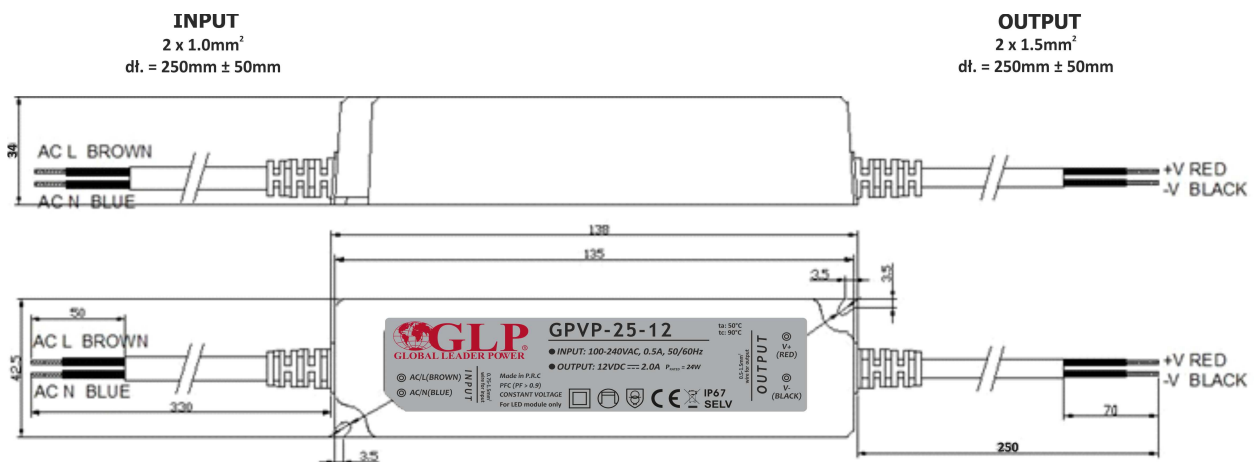
<b>Safety Standards</b>	Compliance to EN 61347-1, EN 61347-2-13
<b>Withstand Voltage</b>	IN/OUT: 3kVAC
<b>Isolation Resistance</b>	IN/OUT: 100MΩ/500VDC/25°C/70%
<b>EMC Emission</b>	Compliance to EN55015
<b>EMC Immunity</b>	Compliance to EN61547
<b>Harmonic Current</b>	Compliance to EN61000-3-3; EN61000-3-2

## OTHERS

<b>DIMENSIONS</b>	138 x 42.5 x 34mm (L x W x H)
<b>Weight</b>	360g

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.

## © MECHANICAL SPECIFICATION

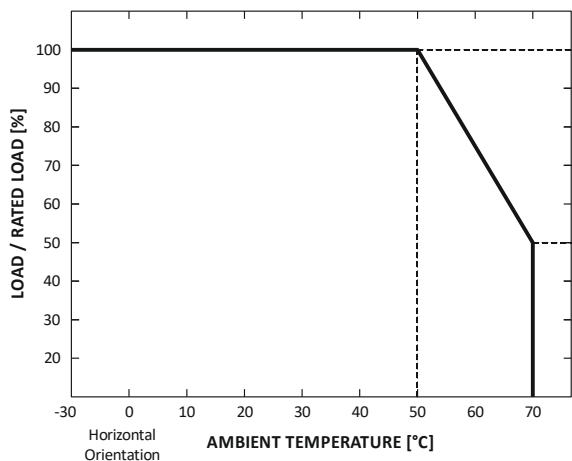


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© DERATING CURVE



© STATIC CHARACTERISTIC

