


# GPVP-40 series

40W Constant Voltage LED Power Supply with PFC



## ■ Features:

- Constant voltage design
- Universal AC input range
  - Built-in PFC
- 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]

CONSTANT VOLTAGE SELV      IP67

## ◎ ELECTRICAL SPECIFICATION

MODEL	GPVP-40-12	GPVP-40-24
<b>OUTPUT</b>		
Rated Voltage	12V	24V
Rated Current	3.5A	1.7A
Current Range	0 ÷ 3.5A	0 ÷ 1.7A
Rated Power	40W	
Line Regulation	± 1%	
Load Regulation	± 2%	
Tolerance [3]	± 3%	
Ripple & Noise (max.) [2]	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.)	85%	86%
AC Current (typ.)	0.6A / 115VAC, 0.3A / 230VAC	
Power Factor (typ.)	PF > 0.9 / 230VAC; PF > 0.95 / 115VAC	
Leakage Current (max.)	0.75mA / 240VAC	

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

# GPVP-40 series

40W Constant Voltage LED Power Supply with PFC



## 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 class C (for load > 60%)

## OTHERS

<b>DIMENSIONS</b>	152.5 x 44 x 34mm (L x W x H)
<b>Weight</b>	205g

EAN



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

### INPUT

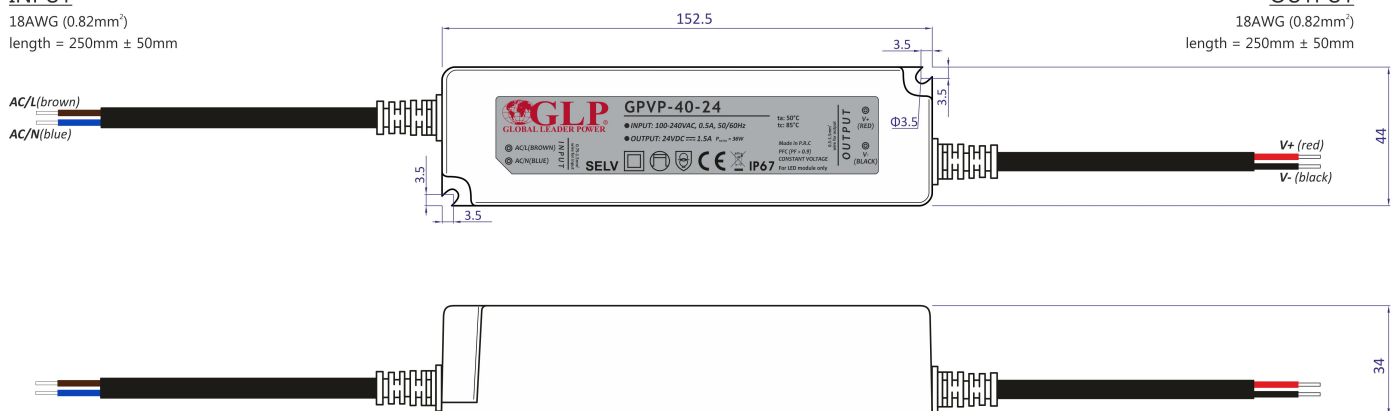
18AWG (0.82mm<sup>2</sup>)  
length = 250mm ± 50mm

AC/L(brown)  
AC/N(blue)

### OUTPUT

18AWG (0.82mm<sup>2</sup>)  
length = 250mm ± 50mm

V+ (red)  
V- (black)

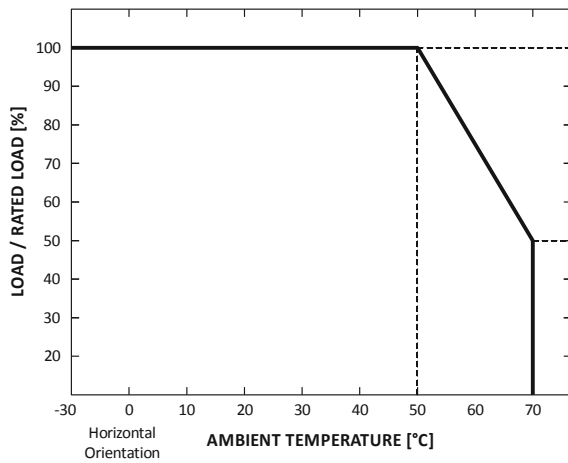


# GPVP-40 series

40W Constant Voltage LED Power Supply with PFC



© DERATING CURVE



© STATIC CHARACTERISTIC

