GPVP-90 series

90W Constant Voltage LED Power Supply with PFC function



■Features:



• 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]



©ELECTRICAL SPECIFICATION		
MODEL	GPVP-90-12	GPVP-90-24
OUTPUT		
Rated Voltage	12V	24V
Rated Current	7.5A	3.75A
Current Range	0 ÷ 7.5A	0 ÷ 3.75A
Rated Power	90W	
Line Regulation	± 1%	
Load Regulation	± 2%	
Tolerance [3]	± 3%	
Ripple & Noise (max.) [2]	200mV _{P-P}	
Setup, RiseTime [4]	600ms, 15ms / 230VAC at full load	
Hold up Time (typ.)	70ms / 230VAC at full load	

INPUT		
Voltage Range	90 ÷ 264VAC	
Frequency Range	47 ÷ 63Hz	
Efiiciency (typ.)	87%	89%
AC Current (typ.)	0.9A / 115VAC, 0.4A / 230VAC	
Power Factor (typ.)	PF > 0.97 / 230VAC; PF > 0.99 / 115VAC	
Leakage Current (max.)	0.75mA / 240VAC	

Range: 110-150% rated power		
Type: hiccup mode, auto-recov	ery.	
Type: hiccup mode, auto-recov	Type: hiccup mode, auto-recovery.	
Range: 18-22V	Range: 28-34V	
Type: hiccup mode, auto-recov	ery.	
140°C±10°C(detect on main co	ntrol IC)	
Type: shut off, re-power on to	recovery	
	Type: hiccup mode, auto-recov Range: 18-22V Type: hiccup mode, auto-recov 140°C±10°C(detect on main co	Type: hiccup mode, auto-recovery. Type: hiccup mode, auto-recovery.

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WORKING ENVIRONMENT

Working Temperature	-30°C ÷ 70°C (refer to Derating Curve), 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	

SAFETY and EMC REGULATIONS

Safety Standards	Compliance to EN 61347-1, EN 61347-2-13
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 class C (for load > 60%)

OTHERS

Weight

DIMENSIONS

190 x 63 x 38mm (L x W x H) 392g

EAN





All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
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.

О-ГН-ТН О-О-Н-ТН

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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