GPVP-90 series

90W 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]



| © 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 | |

| PROTECTIONS | | | |
|------------------|--------------------------------|---------------|--|
| Overload | Range: 110-150% rated power | | |
| | Type: hiccup mode, auto-reco | very. | |
| Short Circuit | Type: hiccup mode, auto-reco | very. | |
| Over Voltage | Range: 18-22V | Range: 28-34V | |
| | Type: hiccup mode, auto-reco | very. | |
| Over Temperature | 140°C±10°C(detect on main co | ontrol IC) | |
| | Type: shut off, re-power on to | 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 | |
|------------|-----------------------------|
| DIMENSIONS | 190 x 63 x 38mm (L x W x H) |
| Weight | 392g |

EAN



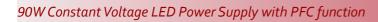


- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
- 3. Tolerance includes set up tolerance, line 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.

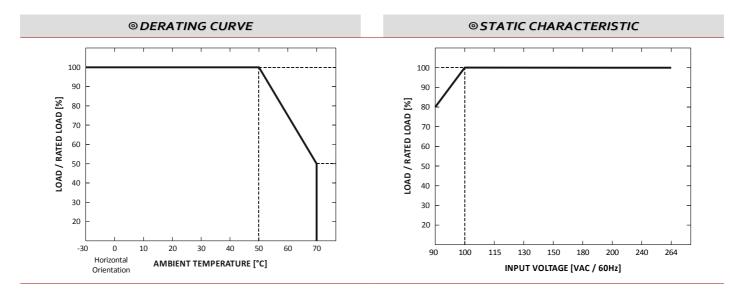
OMECHANICAL SPECIFICATION INPUT OUTPUT 190 18AWG (0.82mm²) 18AWG (0.82mm²) length = 250mm ± 50mm length = $250mm \pm 50mm$ 3.5 AC/L(brown AC/N(blue) V+ (red) V- (black)

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