

FTPC60V-S2 series

60W LED Power Supply



■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over temperature
- Cooling by free air convection
- Compliance to worldwide regulations for lighting
- Extremely short and slim case size



ELECTRICAL SPECIFICATION

| MODEL | FTPC60V12-S2 | FTPC60V24-S2 |
|--------------------------------------|-----------------------------|----------------------|
| OUTPUT | | |
| RATED VOLTAGE | 12V | 24V |
| RATED CURRENT | 5A | 2.5A |
| CURRENT RANGE | 0 ÷ 5A | 0 ÷ 2.5A |
| RATED POWER | 60W | 60W |
| NO LOAD OUTPUT VOLTAGE (MAX.) | 12.6V | 25.2V |
| LINE REGULATION | ± 0.5% | ± 0.5% |
| LOAD REGULATION | ± 1% | ± 1% |
| VOLTAGE TOLERANCE [3] | ± 5% | ± 5% |
| RIPPLE & NOISE (MAX.) [2] | 380mV _{p-p} | 380mV _{p-p} |
| SETUP TIME [4] | 500ms / 230VAC at full load | |
| HOLD UP TIME (MIN.) | 5ms / 230VAC at full load | |

INPUT

| | | |
|---|---------------------------------|-----|
| VOLTAGE RANGE | 198 ÷ 264VAC | |
| FREQUENCY RANGE | 50 / 60Hz | |
| POWER FACTOR (MIN.) | PF ≥ 0.97 / 230VAC at full load | |
| EFFICIENCY (MAX.) | 89% | 89% |
| AC CURRENT (TYP.) | < 0.5A / 230VAC | |
| INRUSH CURRENT (TYP.) | 70A / 230VAC | |
| NO LOAD POWER CONSUMPTION (MAX.) | < 0.5W | |

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PROTECTIONS

| | |
|-------------------------|--|
| OVERLOAD | Range: <160% rated output power Type: hiccup mode. Recovers automatically after fault condition is removed. |
| SHORT CIRCUIT | Type: hiccup mode. Recovers automatically after fault condition is removed. |
| OVER VOLTAGE | Range: < 150% rated output voltage Type: shut down output voltage. Re-power on to recovery |
| OVER TEMPERATURE | Range: < 115°C in detected point Type: shut down output voltage. Re-power on to recovery |

WORKING ENVIRONMENT

| | |
|---|---|
| WORKING TEMPERATURE | -20°C ÷ +45°C |
| WORKING HUMIDITY | 10 ÷ 90% RH |
| STORAGE TEMPERATURE AND HUMIDITY | -30°C ÷ +70°C, 10 ÷ 95% RH non-condensing |

SAFETY AND EMC REGULATIONS

| | |
|--------------------------|--|
| SAFETY STANDARDS | Compliance to EN61347-1, EN61347-2-13 |
| WITHSTAND VOLTAGE | IN/OUT: 3.75kVAC |
| EMC EMISSION | Compliance to EN55015 |
| EMC IMMUNITY | Compliance to EN61547; EN61000-4-2, 3, 4, 5, 6 |
| HARMONIC CURRENT | Compliance to EN61000-3-2; EN61000-3-3 |

OTHERS

| | |
|---------------------------|--|
| DIMENSIONS | 304.6 x 30 x 16.7mm (L x W x H) |
| LIFETIME | 30 000 hours / 230VAC, full load, ta=45°C |
| WEIGHT AND PACKING | 160g; 50pcs./carton; carton dimensions: 35 x 20 x 27.5cm |

EAN CODE



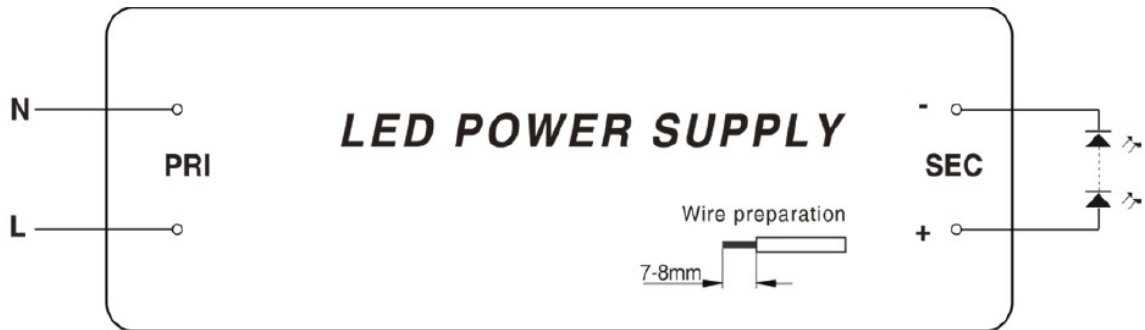
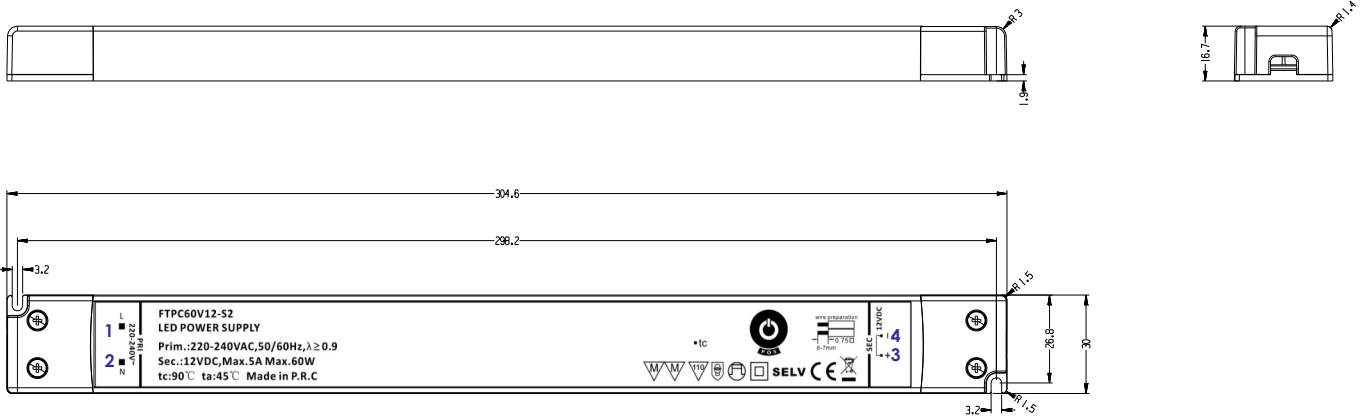
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. 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.

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MECHANICAL SPECIFICATION



PIN ASSIGNMENT

| No. | Assignment | No. | Assignment |
|-----|-------------|-----|---------------------------|
| 1 | Input: AC/N | 3 | Output: U _{OUT+} |
| 2 | Input: AC/L | 4 | Output: U _{OUT-} |