

FTPC250V series

250W Constant Voltage Single Output LED Power Supply



■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current / Over voltage / Over Temperature
- Cooling by free air convection
- Compliance to worldwide regulations for lighting



? ELECTRICAL SPECIFICATION

| MODEL | FTPC250V12 | FTPC250V24 |
|----------------------------------|--|----------------------|
| OUTPUT | | |
| Rated Voltage | 12V | 24V |
| Rated Current | 18A | 10.4A |
| Current Range | 0 ÷ 18A | 0 ÷ 10.4A |
| Rated Power | 216W | 249.6W |
| Line Regulation | ± 1% | ± 1% |
| Load Regulation | ± 1% | ± 1% |
| Voltage Tolerance [3] | ± 5% | ± 5% |
| Ripple & Noise (max.) [2] | 700mV _{p,p} | 700mV _{p,p} |
| Setup, Rise Time [4] | 200ms, 50ms / 230VAC at full load | |
| Hold up Time (typ.) | 1.5ms / 230VAC at full load | |
| INPUT | | |
| Voltage Range | 200 ÷ 240VAC | |
| Frequency Range | 47 ÷ 63Hz | |
| Power Factor (typ.) | PF > 0.95 / 230VAC at full load | |
| Efficiency (typ.) | 92% | 93% |
| AC current (typ.) | 1.5A / 230VAC | |
| Inrush current (max.) | 75A / 230VAC (25°C) | |
| No Load Power Consumption (max.) | < 1W | |
| PROTECTIONS | | |
| Over Current | Range: > 120% | |
| | Type: shut down output voltage. Recovers automatically after fault condition is removed. | |
| Short Circuit | Type: shut down output voltage. Recovers automatically after fault condition is removed. | |
| Over Voltage | < 14.3V | |
| | < 29.0V | |
| Over Temperature | Type: shut down output voltage. Re-power on to recovery. | |
| | Range: 115°C ± 10°C | |
| | Type: Output current limiting. Recovers automatically after fault condition is removed. | |

WORKING ENVIRONMENT

| | |
|----------------------------------|---|
| Working Temperature | -20°C ÷ +45°C |
| Working Humidity | 45 ÷ 85% RH non-condensing |
| 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 |
| Harmonic Current | Compliance to EN61000-3-2, EN61000-3-3 |

OTHERS

| | |
|--------------------|--|
| Dimensions | 195 x 67.1 x 31.2mm (L x W x H) |
| Weight and Packing | 0.5kg; 15 pcs. / box; box dimensions: 20.5 x 23 x 20.5cm |

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

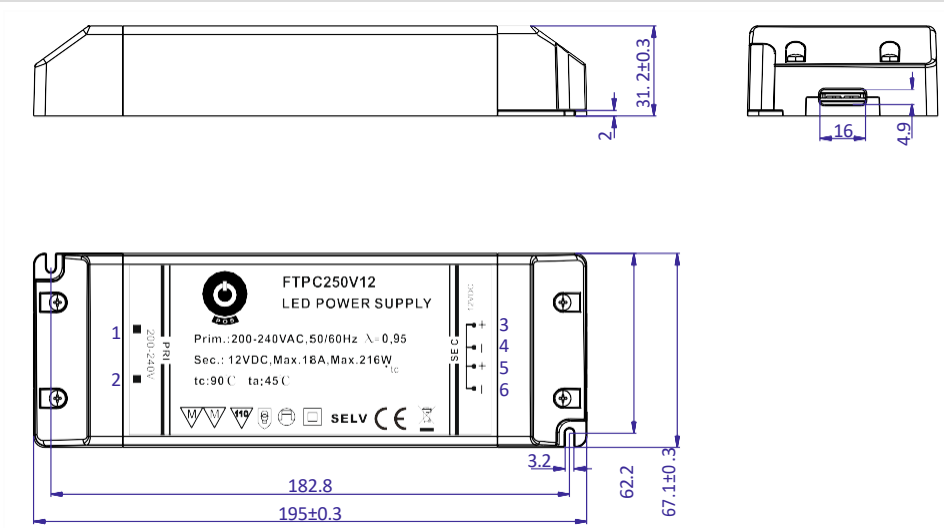
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.

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.

© MECHANICAL SPECIFICATION



PIN ASSIGNMENT

| No. | Assignment | No. | Assignment |
|-----|---------------|-----|----------------------------|
| 1 | Input: AC/N/L | 4,6 | Output: U _{OUT} - |
| 2 | Input: AC/N/L | 3,5 | Output: U _{OUT} + |