

FTPC60V-C2 series

60W LED Constant voltage Switching Power Supply



■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in active PFC function • Isolation class II



Ⓢ ELECTRICAL SPECIFICATION

| MODEL | FTPC60V12-C2 | FTPC60V24-C2 |
|-------|--------------|--------------|
|-------|--------------|--------------|

OUTPUT

| | | |
|----------------------------------|----------------------|----------------------|
| Rated Voltage | 12V | 24V |
| Rated Current | 5A | 2.5A |
| Rated Power | 60W | |
| Power Range | 0 ÷ 60W | |
| Line Regulation | ± 1% | |
| Load Regulation | ± 2% | |
| Voltage Tolerance | ± 5% | |
| Ripple & Noise (max.) | 360mV _{p-p} | 750mV _{p-p} |
| Setup, Rise, Holdup time | 500ms, 30ms, 15ms | |

INPUT

| | | |
|---|--------------------------------|-----|
| Voltage Range | 220 ÷ 240VAC | |
| Frequency Range | 50/60Hz | |
| Power Factor (typ.) | PF > 0.98/ 230VAC at full load | |
| Efficiency (typ.) | 87% | 85% |
| AC current (typ.) | 0.35A / 230VAC | |
| Inrush current (max.) | 30A / 230VAC(25°C) | |
| No Load Power Consumption (max.) | 0.5W | |

PROTECTIONS

| | |
|-------------------------|---|
| Over Current | Range: 110 ÷ 140% Recoveries automatically after fault condition is removed. |
| Short Circuit | Type: hiccup mode. Recoveries automatically after fault condition is removed. |
| Over voltage | Recoveries automatically after fault condition is removed. |
| Over temperature | Recoveries automatically after fault condition is removed. |

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WORKING ENVIRONMENT

| | |
|---|--|
| Working Temperature | -20°C ÷ 45°C |
| Working Humidity | 10 ÷ 90% RH non-condensing |
| Storage Temperature and Humidity | -40°C ÷ 80°C, 10 ÷ 90% RH non-condensing |

SAFETY AND EMC REGULATIONS

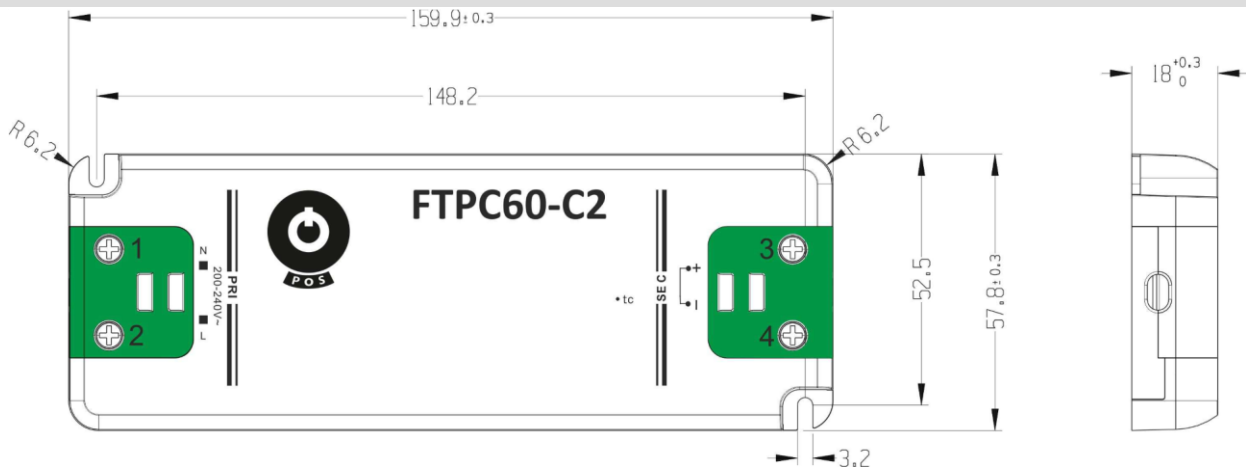
| | |
|-----------------------------|--|
| Safet Standards | Compliance to EN61347-1, EN61347-2-13 |
| Withstand Voltage | IN/OUT: 5.3kVDC/1min |
| Isolation Resistance | IN/OUT: 50MΩ/500VDC/25°C/70% |
| EMC Emission | Compliance to EN55015 |
| EMC Immunity | Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6; |
| Harmonic Current | Compliance to EN61000-3-3; EN61000-3-2 class C (≥ 100% load) |

OTHERS

| | |
|---------------------------|--|
| Dimensions | 159.9 x 57.8 x 18mm (L x W x H) |
| Weight and Packing | 0.1kg; 100pcs./ctn; ctn dimensions: 31.5 x 25.5 x 16.5cm |

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Tolerance includes set up tolerance, line regulation and load regulation.
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the finalequipment must be re-qualify to comply with EMC Directives.

MECHANICAL SPECIFICATION



PIN ASSIGNMENT

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