

FTPC50V-D series

50W LED Triac Dimmable Switching Power Supply (CV+CC)



■ Features:

- Constant voltage + constant current design
- European AC input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- AC phase cut (leading or trailing edge) dimmable
- Built-in active PFC function



Ⓢ ELECTRICAL SPECIFICATION

| MODEL | FTPC50V12-D | FTPC50V24-D |
|---|---|----------------------|
| OUTPUT | | |
| Rated Voltage | 12V | 24V |
| Rated Current | 4.16A | 2.08A |
| Current Range | 0.5 ÷ 4.16A | 0.25 ÷ 2.08A |
| Rated Power | 50W | 50W |
| No Load Output Voltage (max.) | 12.6V | 25.2V |
| Line Regulation | ± 1% | ± 1% |
| Load Regulation | ± 6% | ± 6% |
| Voltage Tolerance [3] | ± 5% | ± 5% |
| Ripple & Noise (max.) [2] | 1.50V _{p-p} | 1.50V _{p-p} |
| Setup, Rise Time [4] | 1s, 500ms / 230VAC at full load | |
| Hold up Time (typ.) | 1.5ms / 230VAC at full load | |
| INPUT | | |
| Voltage Range | 180 ÷ 264VAC | |
| Frequency Range | 47 ÷ 63Hz | |
| Power Factor (typ.) | PF > 0.9 / 230VAC at full load | |
| Efficiency (typ.) | 85% | 85% |
| AC current (typ.) | 0.3A / 230VAC | |
| Inrush current (max.) | 75A / 230VAC (25°C) | |
| No Load Power Consumption (max.) | < 1W | |
| PROTECTIONS | | |
| Over Current | Range: > 120% | |
| | Type: Decrease output current. Recovers automatically after fault condition is removed. | |
| Short Circuit | Type: Decrease output current. Recovers automatically after fault condition is removed. | |
| Over Voltage | < 18V | < 36V |
| | Type: shut down output voltage. Re-power on to recovery. | |
| Over Temperature | Range: 115°C ± 10°C | |
| | Type: Decrease output current. Recovers automatically after fault condition is removed. | |

FTPC50V-D series

50W LED Triac Dimmable Switching Power Supply (CV+CC)



WORKING ENVIRONMENT

| | |
|---|---|
| Working Temperature | -20°C ÷ +45°C |
| Working Humidity | 15 ÷ 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 |

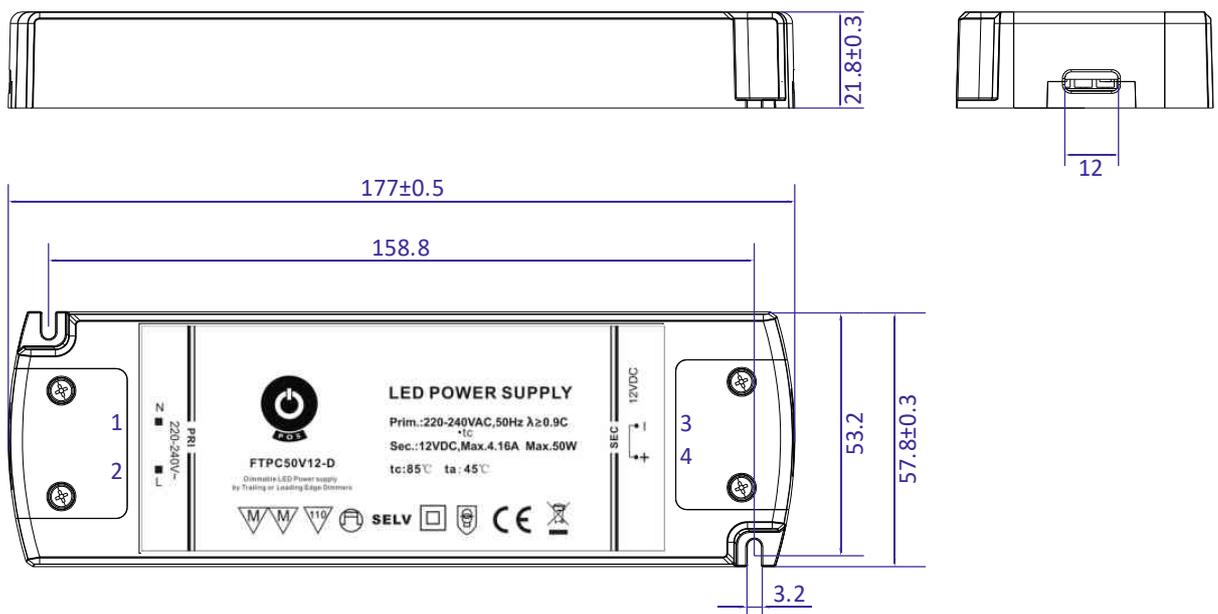
OTHERS

| | |
|---------------------------|---------------------------------|
| Dimensions | 177 x 57.8 x 21.8mm (L x W x H) |
| Weight and Packing | 0.2kg; 50pcs./box |

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.



FTPC50V-D series

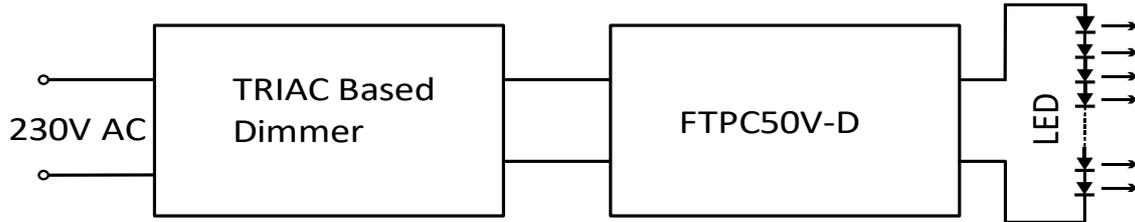
50W LED Triac Dimmable Switching Power Supply (CV+CC)



PIN ASSIGNMENT

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

© Dimming



Connection of Dimmer Switch

SUITABLE DIMMERS

HAGER-WBMD400TO

CLIPSAL 32E450LM

NIKO 310-01900

LEGRAND 78401

RECOM REDIM07