

FTPC75V-D series

75W 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 | FTPC75V12-D | FTPC75V24-D |
|----------------------------------|---|----------------------|
| OUTPUT | | |
| Rated Voltage | 12V | 24V |
| Rated Current | 6.25A | 3.125A |
| Current Range | 2 ÷ 6.25A | 1 ÷ 3.125A |
| Rated Power | 75W | 75W |
| No Load Output Voltage (max.) | <13V | <25V |
| Line Regulation | ± 1% | ± 1% |
| Load Regulation | ± 6% | ± 6% |
| Voltage Tolerance [3] | ± 5% | ± 5% |
| Ripple & Noise (max.) [2] | 180mV _{p-p} | 300mV _{p-p} |
| Setup, Rise Time [4] | 500ms, 20ms / 230VAC at full load | |
| Hold up Time (typ.) | 1.5ms / 230VAC at full load | |
| INPUT | | |
| Voltage Range | 220 ÷ 240VAC | |
| Frequency Range | 47 ÷ 63Hz | |
| Power Factor (typ.) | PF > 0.9 / 230VAC at full load | |
| Efficiency (typ.) | 85% | |
| AC current (typ.) | <1A / 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. | |
| | < 18V | < 36V |
| Over Voltage | Type: shut down output voltage. Re-power on to recovery. | |
| | Range: 115°C ± 10°C | |
| Over Temperature | Type: Decrease output current. Recovers automatically after fault condition is removed. | |

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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

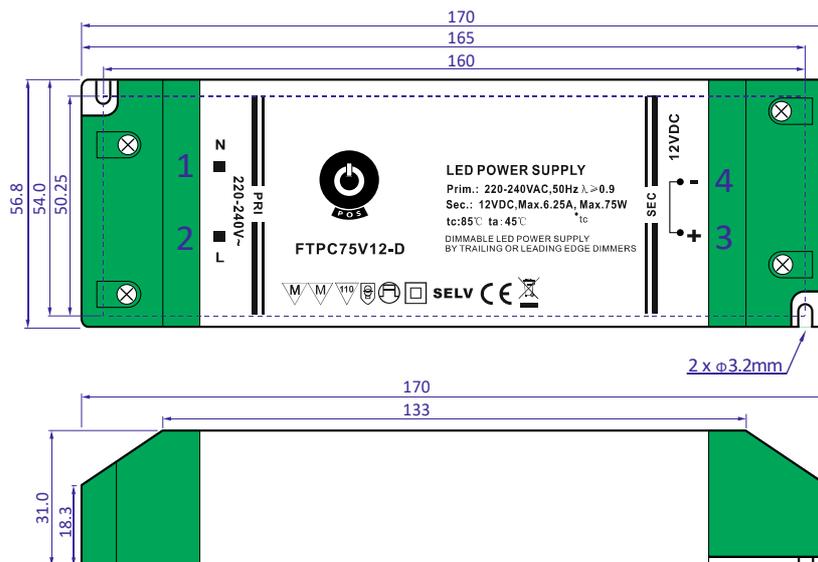
| | |
|---------------------------|-------------------------------|
| Dimensions | 170 x 56.8 x 31mm (L x W x H) |
| Weight and Packing | 0.25kg; 25pcs./ctn |

EAN Code



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

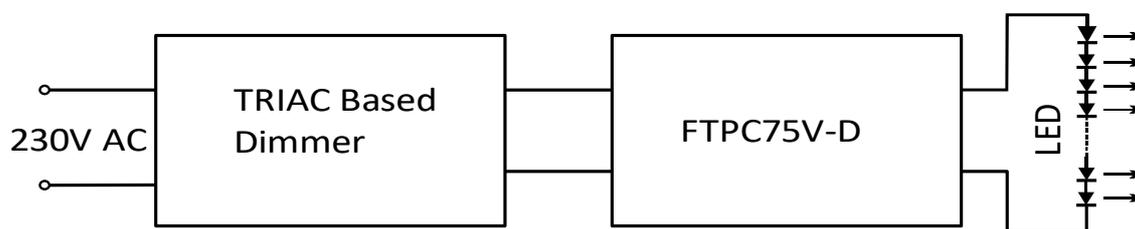
| No. | Assignment | No. | Assignment |
|-----|-------------|-----|----------------------------|
| 1 | Input: AC/N | 3 | Output: U _{OUT} - |
| 2 | Input: AC/L | 4 | Output: U _{OUT} + |

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© Dimming



Connection of Dimmer Switch

SUITABLE DIMMERS

HAGER-WBMD400TO

CLIPSAL 32E450LM

NIKO 310-01900

LEGRAND 78401

RECOM REDIM07