

FTPC15V series

15W LED Switching Power Supply (CV)



■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over temperature
- Cooling by free air convection



Ⓢ ELECTRICAL SPECIFICATION

| MODEL | FTPC15V12 | FTPC15V24 |
|----------------------------------|--|----------------------|
| OUTPUT | | |
| Rated Voltage | 12V | 24V |
| Rated Current | 1.25A | 0.63A |
| Current Range | 0 ÷ 1.25A | 0 ÷ 0.63A |
| Rated Power | 15W | 15W |
| No Output Voltage (max.) | 12.6V | 25.2V |
| Line Regulation | ± 2% | |
| Load Regulation | ± 2% | |
| Voltage Tolerance [3] | ± 5% | |
| Ripple & Noise (max.) [2] | 600mV _{p-p} | 800mV _{p-p} |
| Setup, Rise Time [4] | 2s, 50ms / 230VAC at full load | |
| Hold up Time (typ.) | 5ms / 230VAC at full load | |
| INPUT | | |
| Voltage Range | 180 ÷ 264VAC | |
| Frequency Range | 47 ÷ 63Hz | |
| Power Factor (typ.) | PF > 0.5 / 230VAC pod pełnym obciążeniem | |
| Efficiency (typ.) | 76% | 75% |
| AC current (typ.) | 0.25A / 230VAC | |
| Inrush current (max.) | 10A / 230VAC(25°C) | |
| No Load Power Consumption (max.) | < 0.5W | |

PROTECTIONS

| | |
|-------------------------|---|
| Over Current | Range: 110 ÷ 130% |
| | Type: hiccup mode. Recovers automatically after fault condition is removed. |
| Short Circuit | Type: hiccup mode. Recovers automatically after fault condition is removed. |
| | Range: 110°C ± 10°C |
| Over Temperature | Type: shut down output voltage. Re-power on to recovery. |

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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 , EN 62493 |
| Withstand Voltage | IN/OUT: 3.75kVAC |
| EMC Emission | Compliance to EN55015 |
| EMC Immunity | Compliance to EN61547 |
| Harmonic Current | Compliance to EN61000-3-3; EN61000-3-2 |

OTHERS

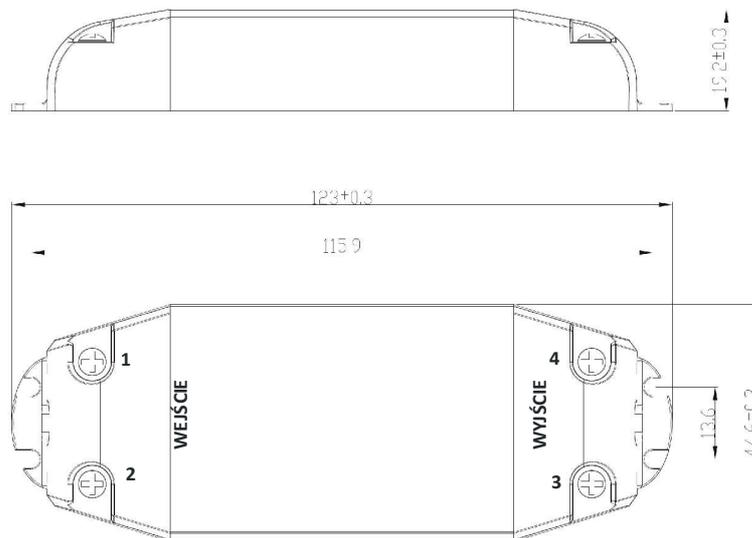
| | |
|---------------------------|--|
| Dimensions | 123 x44 x 19.2mm (L x W x H) |
| Weight and Packing | 0.069kg; 200pcs./box; box dimensions: 47 x 25.5 x 29cm |

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.

© MECHANICAL SPECIFICATION



PIN ASSIGNMENT

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