

# FTPC60V-S series

60W Constant Voltage LED Power Supply



## ■ Features:

- European AC Input
- Protections: Short circuit / Over load
- Cooling by free air convection
- Built-in active PFC function
- Isolation class II
- Extremely short and slim case size



## ELECTRICAL SPECIFICATION

| MODEL                     | FTPC60V12-S                       | FTPC60V24-S          |
|---------------------------|-----------------------------------|----------------------|
| <b>OUTPUT</b>             |                                   |                      |
| RATED VOLTAGE             | 12V                               | 24V                  |
| RATED CURRENT             | 5A                                | 2.55A                |
| POWER RANGE               | 1 ÷ 60W                           |                      |
| RATED POWER               | 60W                               |                      |
| LINE REGULATION           | ± 1%                              |                      |
| LOAD REGULATION           | ± 1%                              |                      |
| VOLTAGE TOLERANCE [3]     | ± 5%                              |                      |
| RIPPLE & NOISE (max.) [2] | 500mV <sub>p-p</sub>              | 600mV <sub>p-p</sub> |
| SETUP                     | 500ms                             |                      |
| <b>INPUT</b>              |                                   |                      |
| VOLTAGE RANGE             | 180 ÷ 264VAC                      |                      |
| FREQUENCY RANGE           | 47 ÷ 63Hz                         |                      |
| POWER FACTOR (typ.)       | PF > 0.9 / 230VAC at full load    |                      |
| EFFICIENT (typ.)          | 88%                               | 88%                  |
| AC CURRENT (typ.)         | 0.5A / 230VAC                     |                      |
| INRUSH CURRENT (max.)     | 75A / 230VAC(25°C)                |                      |
| <b>PROTECTIONS</b>        |                                   |                      |
| OVERLOAD                  | Range: 110 ÷ 160% rated current   |                      |
|                           | Type: hiccup mode, auto-recovery. |                      |
| SHORT CIRCUIT             | Type: hiccup mode, auto-recovery. |                      |

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## ENVIRONMENT

|   |  |
|---|--|
| <b>WORKING TEMPERATURE</b>              | -20°C ÷ 45°C   |
| <b>WORKING HUMIDITY</b>                 | 20 ÷ 98% RH non-condensing   |
| <b>STORAGE TEMPERATURE AND HUMIDITY</b> | -30°C ÷ 70°C, 10 ÷ 98% RH non-condensing                                 |
| <b>TEMPERATURE COEFFICIENT</b>          | ± 0.05% / °C (-20°C ÷ 45°C)  |
| <b>VIBRATION</b>                        | 10 ÷ 500Hz, 2G, 10min / cycle, period for 30min. each along X, Y, Z axes |

## SAFETY & EMC REGULATIONS

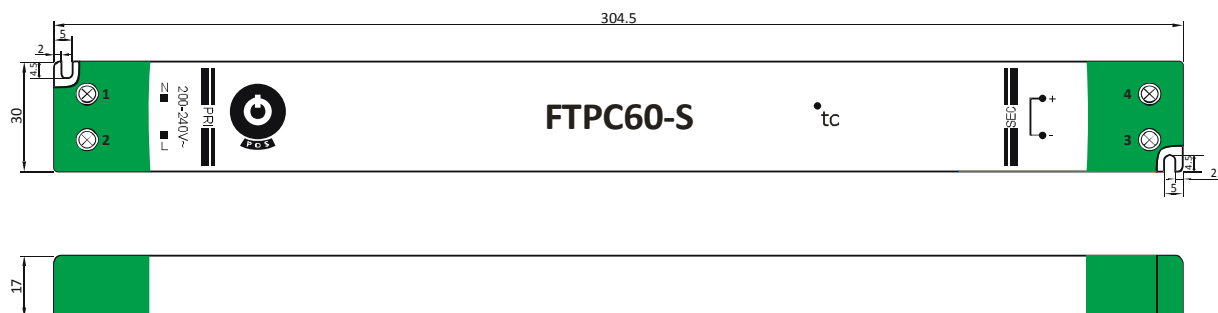
|                             |  |
|-----------------------------|--|
| <b>SAFETY STANDARDS</b>     | Compliance to EN61347-1, EN61347-2-13                                |
| <b>WITHSTAND VOLTAGE</b>    | I-P/O-P: 3.75kVAC/1min   |
| <b>ISOLATION RESISTANCE</b> | I-P/O-P: 50MΩ/500VDC/25°C/70%  |
| <b>EMC EMISSION</b>         | Compliance to EN55015  |
| <b>EMC IMMUNITY</b>         | Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11 |
| <b>HARMONIC CURRENT</b>     | Compliance to EN61000-3-3; EN61000-3-2 class C(100% load)            |

## OTHERS

|                           |  |
|---------------------------|--|
| <b>DIMENSIONS</b>         | 304.5 x 30 x 17mm (L x W x H)  |
| <b>WEIGHT AND PACKING</b> | 0.165kg; 50pcs./box; box weight and dimensions: 10.2kg, 42 x 36.5 x 15cm |

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. 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 final equipment must be re-qualified to comply with EMC Directives.

## MECHANICAL SPECIFICATION



### PIN ASSIGNMENT

| No. | Assignment  | No. | Assignment                |
|-----|-------------|-----|---------------------------|
| 1   | Input: AC/N | 3   | Output: U <sub>OUT-</sub> |
| 2   | Input: AC/L | 4   | Output: U <sub>OUT+</sub> |