

# 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
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### OUTPUT

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

### INPUT

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

### PROTECTIONS

<b>Over Current</b>	Range: 110 ÷ 140% Recovers automatically after fault condition is removed.
<b>Short Circuit</b>	Type: hiccup mode. Recovers automatically after fault condition is removed.
<b>Over voltage</b>	Recovers automatically after fault condition is removed.
<b>Over temperature</b>	Recovers automatically after fault condition is removed.

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## WORKING ENVIRONMENT

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

## SAFETY AND EMC REGULATIONS

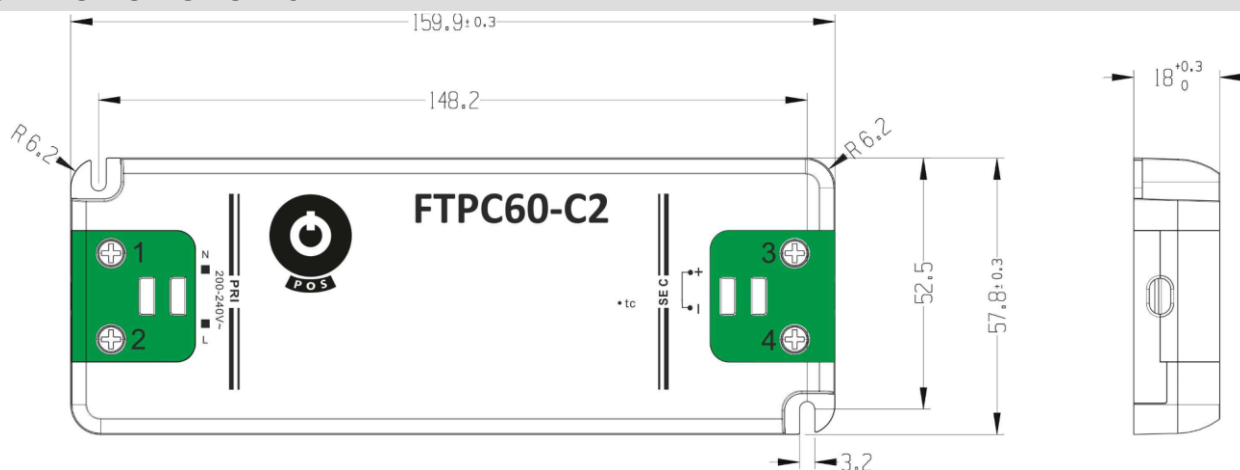
<b>Safet Standards</b>	Compliance to EN61347-1, EN61347-2-13
<b>Withstand Voltage</b>	IN/OUT: 5.3kVDC/1min
<b>Isolation Resistance</b>	IN/OUT: 50MΩ/500VDC/25°C/70%
<b>EMC Emission</b>	Compliance to EN55015
<b>EMC Immunity</b>	Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6;
<b>Harmonic Current</b>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

## OTHERS

<b>Dimensions</b>	159.9 x 57.8 x 18mm (L x W x H)
<b>Weight and Packing</b>	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 <sub>OUT+</sub>
2	Input: AC/L	3	Output: U <sub>OUT-</sub>

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