

# FTPC75V-C2 series

75W 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	FTPC75V12-C2	FTPC75V24-C2
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### OUTPUT

Rated Voltage	12V	24V
Rated Current	6.25A	3.13A
Rated Power	75W	
Power Range	0 ÷ 75W	
Line Regulation	± 1%	
Load Regulation	± 2%	
Voltage Tolerance	± 5%	
Ripple & Noise (max.)	150mV <sub>p-p</sub>	250mV <sub>p-p</sub>
Setup, Rise, Holdup time	500ms, 30ms, 15ms	

### INPUT

Voltage Range	200 ÷ 240VAC
Frequency Range	50/60Hz
Power Factor (typ.)	PF > 0.9/ 230VAC at full load
Efficiency (typ.)	90%
AC current (typ.)	0.5A / 230VAC
Inrush current (max.)	75A / 230VAC(25°C)
No Load Power Consumption (max.)	0.21W

### PROTECTIONS

Over Current	Range: >200% rated output current Recovers automatically after fault condition is removed.
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.
Over voltage	Type: shut down output voltage. Re-power on to recovery.
Over temperature	Type: shut down output voltage. After temperature goes down re-power on to recovery.

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## WORKING ENVIRONMENT

<b>Working Temperature</b>	-20°C ÷ 45°C
<b>Working Humidity</b>	45 ÷ 85% RH non-condensing
<b>Storage Temperature and Humidity</b>	-40°C ÷ 80°C, 10 ÷ 90% RH non-condensing

## SAFETY AND EMC REGULATIONS

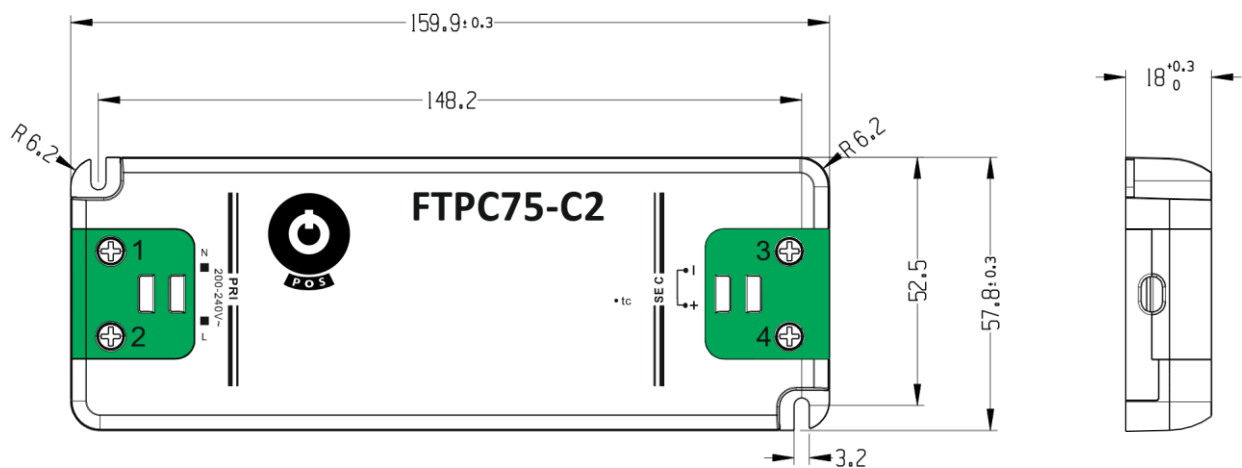
<b>Safet Standards</b>	Compliance to EN61347-1, EN61347-2-13
<b>Withstand Voltage</b>	IN/OUT: 5.3kVDC/1min
<b>Isolation Resistance</b>	IN/OUT: 50MΩ/500VDC/25°C/70%
<b>EMC Emission</b>	Compliance to EN55015
<b>EMC Immunity</b>	Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6
<b>Harmonic Current</b>	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>	0.4kg; 50pcs./ctn; ctn dimensions: 30 x 20.5 x 16cm

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>