

# FTPC50V-C2 series

50W LED Power Supply (CV)



## ■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Compliance to worldwide regulations for lighting



## ELECTRICAL SPECIFICATION

MODEL	FTPC50V12-C2	FTPC50V24-C2
<b>OUTPUT</b>		
<b>RATED VOLTAGE</b>	12V	24V
<b>RATED CURRENT</b>	4.16A	2.08A
<b>CURRENT RANGE</b>	0 ÷ 4.16A	0 ÷ 2.08A
<b>RATED POWER</b>	50W	50W
<b>NO LOAD OUTPUT VOLTAGE (MAX.)</b>	12.6V	25.2V
<b>LINE REGULATION</b>	± 0.5%	± 0.5%
<b>LOAD REGULATION</b>	± 1%	± 1%
<b>VOLTAGE TOLERANCE [3]</b>	± 5%	± 5%
<b>RIPPLE &amp; NOISE (MAX.) [2]</b>	360V <sub>p-p</sub>	720V <sub>p-p</sub>
<b>SETUP TIME [4]</b>	500ms / 230VAC at full load	
<b>HOLD UP TIME (MIN.)</b>	5ms / 230VAC at full load	
<b>INPUT</b>		
<b>VOLTAGE RANGE</b>	180 ÷ 264VAC	
<b>FREQUENCY RANGE</b>	47 ÷ 63Hz	
<b>POWER FACTOR (MIN.)</b>	PF ≥ 0.97 / 230VAC at full load	PF ≥ 0.98 / 230VAC at full load
<b>EFFICIENCY (MAX.)</b>	87%	88%
<b>AC CURRENT (TYP.)</b>	<0.3A / 230VAC	
<b>INRUSH CURRENT (MAX.)</b>	<30A / 230VAC(25°C)	
<b>NO LOAD POWER CONSUMPTION (MAX.)</b>	< 0.5W	

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## PROTECTIONS

<b>OVER CURRENT</b>	Range: 130% rated output power Type: hiccup mode. 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>	Range: 150% rated output voltage.
<b>OVER TEMPERATURE</b>	Range: IC detect temperature Type: shut down output voltage. Re-power on to recovery

## WORKING ENVIRONMENT

<b>WORKING TEMPERATURE</b>	-20°C ÷ +45°C
<b>WORKING HUMIDITY</b>	10 ÷ 90% RH
<b>STORAGE TEMPERATURE AND HUMIDITY</b>	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing

## SAFETY AND EMC REGULATIONS

<b>SAFETY STANDARDS</b>	Compliance to EN61347-1, EN61347-2-13
<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 EN61000-3-2; EN61000-3-3

## OTHERS

<b>DIMENSIONS</b>	159.9 x 57.8 x 18mm (L x W x H)
<b>LIFETIME</b>	50 000 hours / 230VAC, full load, ta=45°C
<b>MTBF</b>	200 000 hours / 230VAC, full load, ta=45°C
<b>WEIGHT AND PACKING</b>	150g; 50pcs./carton; carton dimensions: 30 x 20.5 x 16 cm

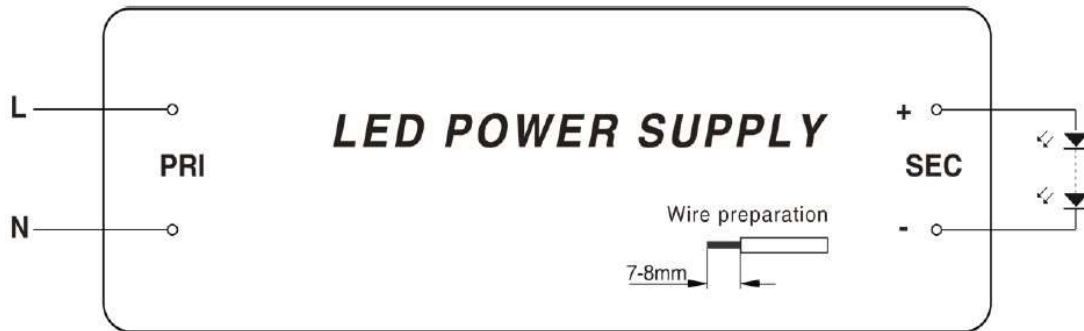
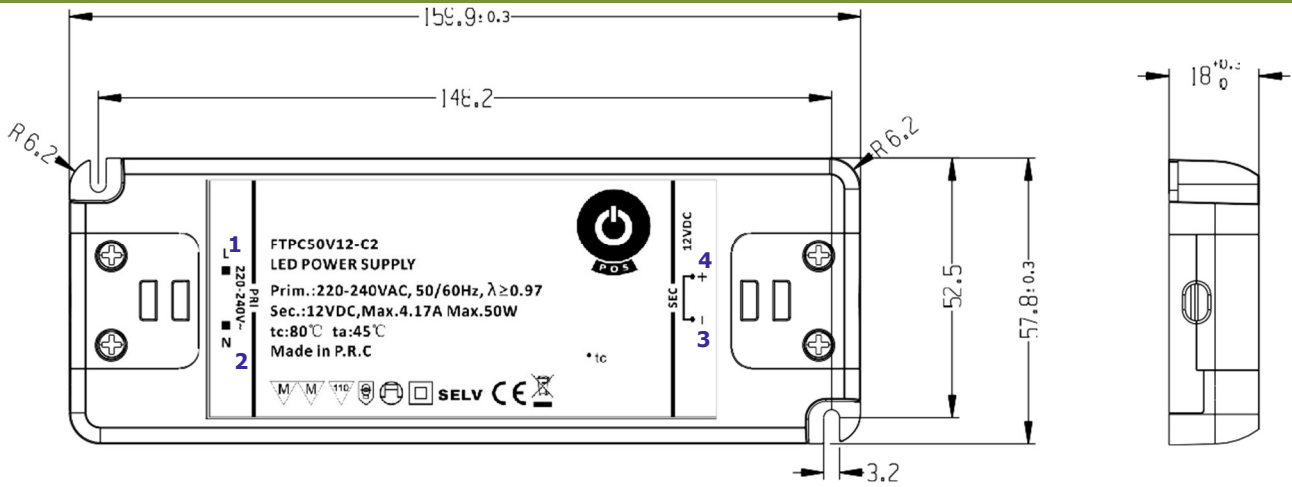
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation 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-qualified to comply with EMC Directives.

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## MECHANICAL SPECIFICATION



## PIN ASSIGNMENT

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

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