

# FTPC6V12 series

6W LED Constant voltage Switching Power Supply



## ■ Features:

- European AC Input
- Protections: Short circuit / Over current / Over temperature
- Cooling by free air convection
- Isolation class II
- Extremely short case size



## ELECTRICAL SPECIFICATION

MODEL	FTPC6V12	
<b>OUTPUT</b>		
Rated Voltage	12V	
Rated Current	0.5A	
Rated Power	6W	
Power Range	0 ÷ 6W	
Line Regulation	± 1%	
Load Regulation	± 2%	
Voltage Tolerance	[2]	± 5%
Ripple & Noise (max.)	[3]	1.2V <sub>p-p</sub>
Setup, Rise, Holdup time	[4]	500ms, 30ms, 15ms
<b>INPUT</b>		
Voltage Range	180 ÷ 264VAC	
Frequency Range	47 ÷ 63Hz	
Efficiency (typ.)	72%	
AC current (typ.)	0.15A / 230VAC	
Inrush current (max.)	30A / 230VAC(25°C)	
No Load Power Consumption (max.)	0.5W	
<b>PROTECTIONS</b>		
Over Current	Range: 110 ÷ 140%	
	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Over temperature	Range: 140°C ± 10°C (detect by main IC)	
	Type: shut down output voltage. 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>	20 ÷ 95% RH non-condensing
<b>Storage Temperature and Humidity</b>	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing
<b>Temperature Coefficient</b>	± 0.05% / °C (-10°C ÷ 45°C)
<b>Vibration</b>	10 ÷ 500Hz, 2G, 10min / cycle, period 30min. each along X, Y, Z axes

## SAFETY AND EMC REGULATIONS

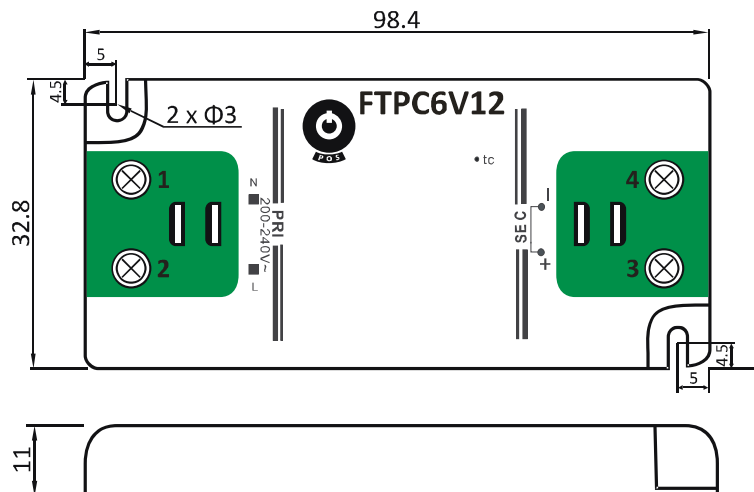
<b>Safet Standards</b>	Compliance to EN61347-1, EN61347-2-13
<b>Withstand Voltage</b>	IN/OUT: 5.3kVDC/1min
<b>Isolation Resistance</b>	IN/OUT: 50MΩ/500VDC/25°C/70%
<b>EMC Emission</b>	Compliance to EN55015
<b>EMC Immunity</b>	Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11; EN55024
<b>Harmonic Current</b>	Compliance to EN61000-3-3; EN61000-3-2

## OTHERS

<b>Dimensions</b>	98.4 x 32.8 x 11mm (L x W x H)
<b>Weight and Packing</b>	0.044kg; 200pcs./ctn; ctn weight and dimensions: 11kg, 39 x 21 x 24cm

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 final equipment must be re-qualify 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>