

# FTPC12V-FP series

12W LED Switching Power Supply



## ■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over temperature
- Compliance to ERP directive
  - lifetime 30000hrs.
  - IP44



## Ⓢ ELECTRICAL SPECIFICATION

MODEL	FTPC12V12-FP	FTPC12V24-FP
<b>OUTPUT</b>		
<b>Rated Voltage</b>	12V	24V
<b>Rated Current</b>	1A	0.5A
<b>Current Range</b>	0.0 ÷ 1.0A	0.0 ÷ 0.5A
<b>Rated Power</b>	12W	12W
<b>No Load Output Voltage (max.)</b>	11.94V	23.99V
<b>Line Regulation</b>	± 1%	
<b>Load Regulation</b>	± 2%	
<b>Voltage Tolerance [3]</b>	± 5%	
<b>Ripple &amp; Noise (max.) [2]</b>	200mV <sub>p-p</sub>	110mV <sub>p-p</sub>
<b>Setup, Rise Time [4]</b>	35ms, 50ms / 230VAC at full load	
<b>Hold up Time (typ.)</b>	5ms / 230VAC at full load	
<b>INPUT</b>		
<b>Voltage Range</b>	180 ÷ 264VAC	
<b>Frequency Range</b>	47 ÷ 63Hz	
<b>Power Factor (typ.)</b>	PF > 0.83 / 230VAC at full load	
<b>Efficiency (typ.)</b>	80%	
<b>AC current (typ.)</b>	0.08A / 230VAC	
<b>Inrush current (max.)</b>	<60A / 230VAC (25°C)	
<b>No Load Power Consumption (max.)</b>	< 1W	
<b>PROTECTIONS</b>		
<b>Over Current</b>	Range: > 151%	
	Type: hiccup mode. Recovers automatically after fault condition is removed.	
<b>Short Circuit</b>	Type: hiccup mode. 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>	45 ÷ 85% RH non-condensing
<b>Storage Temperature and Humidity</b>	-30°C ÷ +80°C, 10 ÷ 95% RH non-condensing

## SAFETY AND EMC REGULATIONS

<b>Safety Standards</b>	Compliance to EN61347-1, EN61347-2-13
<b>Withstand Voltage</b>	IN/OUT: 3.75kVAC
<b>EMC Emission</b>	Compliance to EN55015
<b>EMC Immunity</b>	Compliance to EN61547
<b>Harmonic Current</b>	Compliance to EN61000-3-2, EN61000-3-3

## OTHERS

<b>Dimensions</b>	132 x 52 x 12mm (L x W x H)
<b>Weight and Packing</b>	0.2kg; 100pcs./box

EAN Code



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-quality to comply with EMC Directives.

## © MECHANICAL SPECIFICATION

