## 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 3000ohrs.
      - IP44



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

FTPC12V-FP-spec-EN-R1 22.08.2018 1/2

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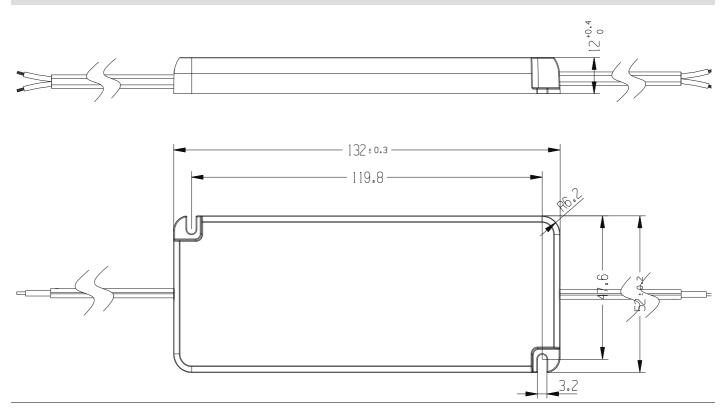
12W LED Switching Power Supply



WORKING ENVIRONMENT		
Working Temperature	-20°C ÷ +45°C	
Working Humidity	45 ÷ 85% RH non-condensing	
Storage Temperature and Humidity	-30°C ÷ +80°C, 10 ÷ 95% RH non-condensing	
SAFETY AND EMC REGULATIONS		
Safety Standards	Compliance to EN61347-1, EN61347-2-13	
Withstand Voltage	IN/OUT: 3.75kVAC	
EMC Emission	Compliance to EN55015	
EMC Immunity	Compliance to EN61547	
Harmonic Current	Compliance to EN61000-3-2, EN61000-3-3	
OTHERS		
Dimensions	132 x 52 x 12mm (L x W x H)	
Weight and Packing	0.2kg; 100pcs./box	
EAN Code	5 9 0 2 1 3 5 1 2 5 6 5 6	5 9 0 2 1 3 5 1 2 5 6 6 3

- $1. \ All \ parameters \ NOT \ specially \ mentioned \ are \ measured \ at \ 230VAC \ input, \ rated \ load \ and \ 25^{\circ}C \ of \ ambient \ temperature.$
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a  $0.1\mu F$  i  $47\mu F$  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**



FTPC12V-FP-spec-EN-R1 22.08.2018 2/2