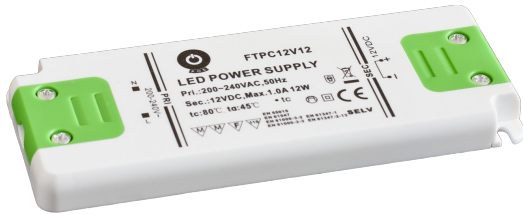


# FTPC12V series

12W constant voltage LED power supply



## ■ Features:

- Protections: Short circuit / Over current / Over temperature
- Cooling by free air convection
- Isolation class II
- Compliance to worldwide regulations for lighting



## ELECTRICAL SPECIFICATION

MODEL	FTPC12V12	FTPC12V24
<b>OUTPUT</b>		
Rated Voltage	12V	24V
Rated Current	1A	0.5A
Power Range	1 ÷ 12W	
Rated Power	12W	
Line Regulation	± 2%	
Load Regulation	± 2%	
Tolerance [3]	± 5%	
Ripple & Noise (max.) [2]	200mV <sub>p-p</sub>	240mV <sub>p-p</sub>
Setup time [4]	2000ms	
<b>INPUT</b>		
Voltage Range	180 ÷ 264VAC	
Frequency Range	47 ÷ 63Hz	
Power Factor (typ.)	PF > 0.5 / 230VAC at full load	
Efficiency (typ.)	75%	76%
AC current (typ.)	0.2A/230VAC	
Inrush current (typ.)	40A / 230VAC(25°C)	
No load power consumption (typ.)	< 0.5W	
<b>PROTECTIONS</b>		
Over Current	Range: 110 ÷ 130%	
	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: 110°C ± 10°C	
	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, tc = 85°C
<b>Working Humidity</b>	45 ÷ 85% RH non-condensing
<b>Storage Temperature and Humidity</b>	-30°C ÷ 70°C, 10 ÷ 98% RH non-condensing
<b>Temperature Coefficient</b>	± 0.05% / °C (-20°C ÷ 45°C)
<b>Vibration</b>	10 ÷ 500Hz, 2G, 10min / cycle, period 30min. each along X, Y, Z axes
<b>IP protection</b>	IP20

## SAFETY AND EMC REGULATIONS

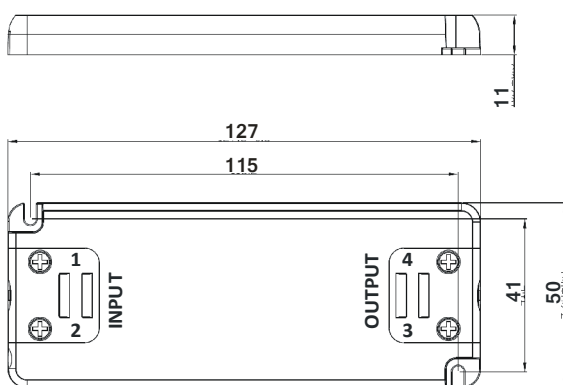
<b>Safety Standards</b>	Compliance to EN61347-1, EN61347-2-13
<b>Withstand Voltage</b>	IN/OUT: 3.75kVAC/1min
<b>Isolation Resistance</b>	IN/OUT: 2MΩ/500VDC/25°C/70%
<b>EMC Emission</b>	Compliance to EN55015
<b>EMC Immunity</b>	Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11
<b>Harmonic Current</b>	Compliance to EN61000-3-3; EN61000-3-2

## OTHERS

<b>Dimensions</b>	127 x 50 x 11mm (L x W x H)
<b>Weight and Packing</b>	0.06kg; 200pcs./ctn; ctn weight and dimensions: 14.7kg, 41 x 23 x 30cm

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 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		
INPUT	1	Input: AC/N
	2	Input: AC/L
OUTPUT	3	Output: U <sub>OUT-</sub>
	4	Output: U <sub>OUT+</sub>