

# FTPC12V series

12W LED Switching Power Supply (CV)



## ■ Features:

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



## Ⓢ ELECTRICAL SPECIFICATION

<b>MODEL</b>	<b>FTPC12V12-C</b>
<b>OUTPUT</b>	
<b>Rated Voltage</b>	12V
<b>Rated Current</b>	1A
<b>Current Range</b>	0 ÷ 1A
<b>Rated Power</b>	12W
<b>No Output Voltage (max.)</b>	12.6V
<b>Line Regulation</b>	± 1%
<b>Load Regulation</b>	± 2%
<b>Voltage Tolerance [3]</b>	± 5%
<b>Ripple &amp; Noise (max.) [2]</b>	150mV <sub>p-p</sub>
<b>Setup, Rise Time [4]</b>	500ms, 10ms / 230VAC at full load
<b>Hold up Time (typ.)</b>	15ms / 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 > 0.5 / 230VAC at full load
<b>Efficiency (typ.)</b>	85%
<b>AC current (typ.)</b>	0.16A / 230VAC
<b>Inrush current (max.)</b>	75A / 230VAC(25°C)
<b>No Load Power Consumption (max.)</b>	0.5W
<b>PROTECTIONS</b>	
<b>Over Current</b>	Range: 110 ÷ 140%
	Type: constant current limiting to 40% rated voltage next 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 Temperature</b>	Range: 110°C ± 10°C
	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>	45 ÷ 85% RH non-condensing
<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 , EN 62493
<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 EN61000-3-3; EN61000-3-2

## OTHERS

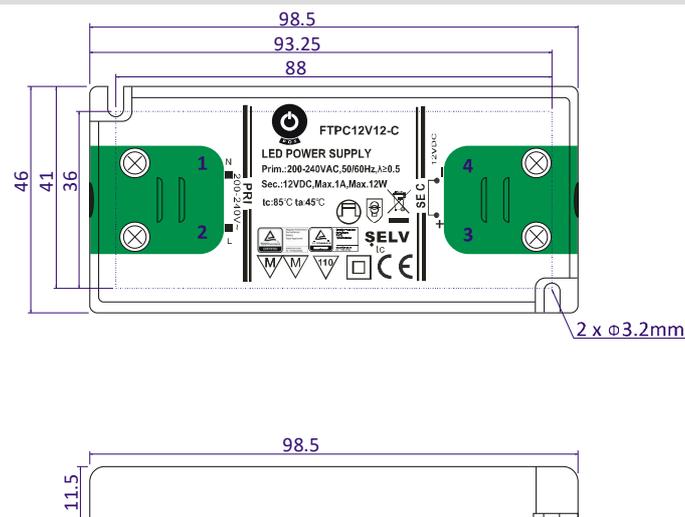
<b>Dimensions</b>	98.5 x 46 x 11.5mm (L x W x H)
<b>Weight and Packing</b>	0.06kg; 200pcs./box; box dimensions: 23.5 x 20 x 27cm

**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



## 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>

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