

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

MODEL	FTPC12V12-C	FTPC12V24-C
OUTPUT		
Rated Voltage	12V	24V
Rated Current	1A	0.5A
Current Range	0 ÷ 1A	0 ÷ 0.5A
Rated Power	12W	
No Output Voltage (max.)	12.6V	
Line Regulation	± 1%	
Load Regulation	± 2%	
Voltage Tolerance [3]	± 5%	
Ripple & Noise (max.) [2]	150mV _{p-p}	250mV _{p-p}
Setup, Rise Time [4]	500ms, 10ms / 230VAC at full load	
Hold up Time (typ.)	15ms / 230VAC at full load	
INPUT		
Voltage Range	180 ÷ 264VAC	
Frequency Range	47 ÷ 63Hz	
Power Factor (typ.)	PF > 0.5 / 230VAC at full load	
Efficiency (typ.)	85%	86%
AC current (typ.)	0.16A / 230VAC	
Inrush current (max.)	75A / 230VAC(25°C)	
No Load Power Consumption (max.)	0.5W	
PROTECTIONS		
Over Current	Range: 110 ÷ 140%	
	Type: constant current limiting to 40% rated voltage next 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. Recovers automatically after fault condition is removed.	

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WORKING ENVIRONMENT

Working Temperature	-20°C ÷ +45°C
Working Humidity	45 ÷ 85% RH non-condensing
Storage Temperature and Humidity	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

Safety Standards	Compliance to EN61347-1, EN61347-2-13 , EN 62493
Withstand Voltage	IN/OUT: 3.75kVAC
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

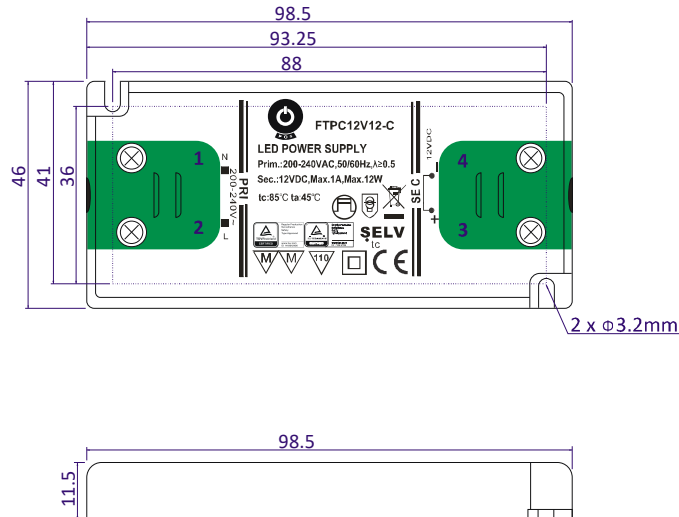
OTHERS

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

EAN Code	 5 902135 121696	 5 902135 122914
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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 _{OUT} +
2	Input: AC/L	4	Output: U _{OUT} -