

FTPC100V-S series

100W LED Switching Power Supply (CV)



■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current / Over voltage / Over Temperature
- Cooling by free air convection
- Compliance to worldwide regulations for lighting
- Extremely short and slim case size



⊙ ELECTRICAL SPECIFICATION

MODEL	FTPC100V12-S	FTPC100V24-S	FTPC100V48-S
OUTPUT			
Rated Voltage	12V	24V	2.08A
Rated Current	8.33A	4.17A	0 ÷ 2.08A
Current Range	0 ÷ 8.33A	0 ÷ 4.17A	99.84W
Rated Power	99.96W	100.08W	50.4V
No Output Voltage (max.)	12.6V	24.8V	50.4V
Line Regulation	± 1%		
Load Regulation	± 2%		
Voltage Tolerance [3]	± 5%		
Ripple & Noise (max.) [2]	240mV _{p-p}	240mV _{p-p}	480mV _{p-p}
Setup, Rise Time [4]	500ms, 50ms / 230VAC at full load		
Hold up Time (typ.)	10ms / 230VAC at full load		
INPUT			
Voltage Range	180 ÷ 264VAC		
Frequency Range	47 ÷ 63Hz		
Power Factor (typ.)	PF > 0.9 / 230VAC pod pełnym obciążeniem		
Efficiency (typ.)	90%	90%	90%
AC current (typ.)	0.7A / 230VAC		
Inrush current (max.)	75A / 230VAC(25°C)		
No Load Power Consumption (max.)	0.5W		
PROTECTIONS			
Over Current	Range: 110 ÷ 140%		
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Voltage	13.5 ÷ 18.5V	28 ÷ 36V	52 ÷ 60V
	Type: shut down output voltage, auto-recovery.		
Over Temperature	Range: 110°C ± 10°C		
	Type: shut down output voltage. Re-power on to recovery.		

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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

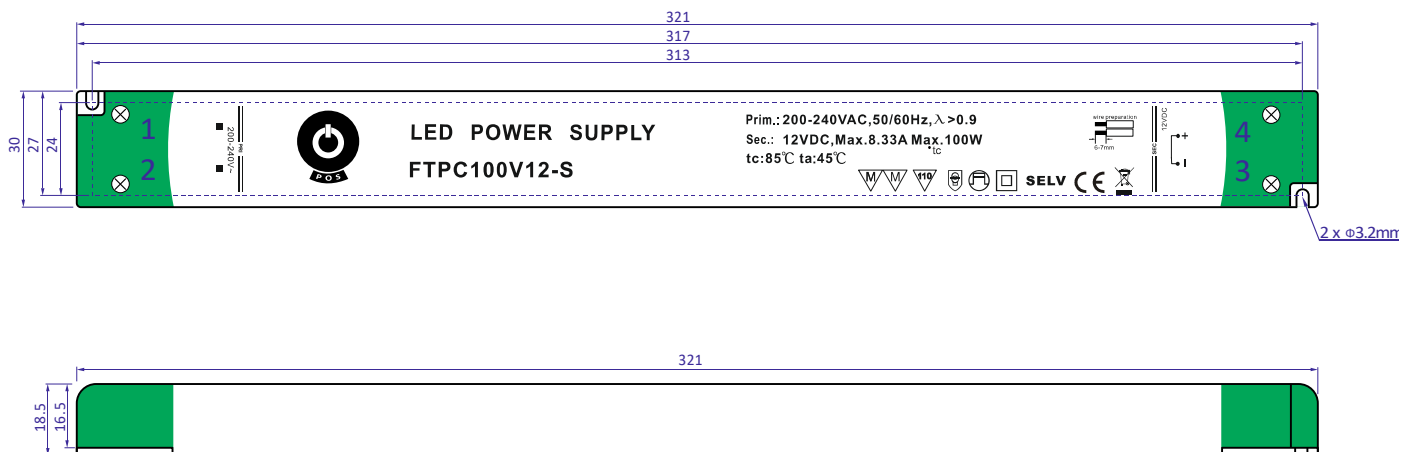
Safety Standards	Compliance to EN61347-1, EN61347-2-13 , EN 62493
Withstand Voltage	IN/OUT: 3.75kVAC
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

Dimensions	321 x 30 x 18.5mm (L x W x H)		
Weight and Packing	0.25kg; 50pcs./box; box dimensions: 34 x 21.5 x 14cm		
EAN Code	 5 902135 121795	 5 902135 121801	N/D

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} +