

FTPC100V-E series

100W Constant Voltage LED Power Supply



■ 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



Ⓢ ELECTRICAL SPECIFICATION

MODEL	FTPC100V12-E	FTPC100V24-E
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OUTPUT

Rated Voltage	12V	24V
Rated Current	8.33A	4.17A
Current Range	0 ÷ 8.33A	0 ÷ 4.17A
Rated Power	100W	100W
Line Regulation	± 1%	± 1%
Load Regulation	± 0.5%	± 0.5%
Voltage Tolerance [3]	± 5%	± 5%
Ripple & Noise (max.) [2]	300mV _{p-p}	700mV _{p-p}
Setup, Rise Time [4]	500ms, 50ms / 230VAC at full load	
Hold up Time (typ.)	10ms / 230VAC at full load	

INPUT

Voltage Range	200 ÷ 240VAC	
Frequency Range	47 ÷ 63Hz	
Power Factor (typ.)	PF > 0.9 / 230VAC at full load	
Efficiency (typ.)	88%	90%
AC current (typ.)	0.7A / 230VAC	
Inrush current (max.)	75A / 230VAC (25°C)	
No Load Power Consumption (max.)	< 1W	

PROTECTIONS

Over Current	Range: > 120%	
	Type: Hiccup mode. Recovers automatically after fault condition is removed.	
Short Circuit	Type: Hiccup mode. Recovers automatically after fault condition is removed.	
Over Voltage	< 18V	< 36V
	Type: shut down output voltage. Re-power on to recovery.	
Over Temperature	Type: Shut-off. Re-power on to recover.	

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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
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

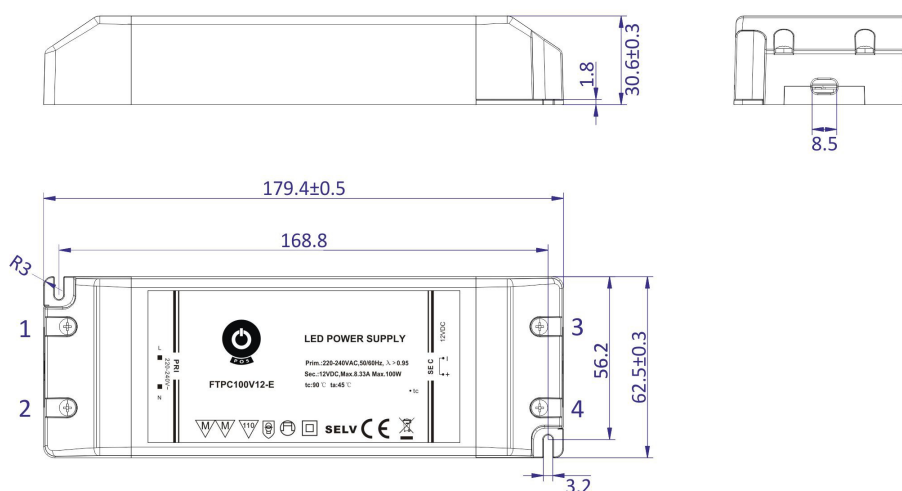
Dimensions	179.4 x 62.5 x 30.6mm (L x W x H)
Weight and Packing	0.40kg; 20pcs./box

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/L	3	Output: U _{OUT} -
2	Input: AC/N/L	4	Output: U _{OUT} +