

FTPC100V-FP series

100W LED Power Supply (CV)



■ Features:

- Constant voltage design
- European AC input range
- Protections: Overload / Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- Compliance to worldwide regulations for lighting
- IP44 protection level



ELECTRICAL SPECIFICATION

MODEL	FTPC100V12-FP	FTPC100V24-FP
OUTPUT		
RATED VOLTAGE	12V	24V
RATED CURRENT	8.33A	4.17A
CURRENT RANGE	0 ÷ 8.33A	0 ÷ 4.17A
RATED POWER	100W	100W
NO LOAD OUTPUT VOLTAGE (MAX.)	12.6V	25.2V
LINE REGULATION	± 0.5%	± 0.5%
LOAD REGULATION	± 1%	± 1%
VOLTAGE TOLERANCE [3]	± 5%	± 5%
RIPPLE & NOISE (MAX.) [2]	180mV _{p-p}	250mV _{p-p}
SETUP TIME [4]	500ms / 230VAC at full load	
HOLD UP TIME (MIN.)	5ms / 230VAC at full load	
INPUT		
VOLTAGE RANGE	200 ÷ 264VAC	
FREQUENCY RANGE	50 ÷ 60Hz	
POWER FACTOR (MAX.)	PF ≥ 0.9	
EFFICIENCY (MAX.)	90%	90%
AC CURRENT (TYP.)	<0.64A / 230VAC	
INRUSH CURRENT (MAX.)	<75A / 230VAC(25°C)	
NO LOAD POWER CONSUMPTION (MAX.)	< 0.21W	

PROTECTIONS

OVER CURRENT	Range: < 200% rated output power Type: hiccup mode. Recovers automatically after fault condition is removed.
SHORT CIRCUIT	Type: hiccup mode. Recovers automatically after fault condition is removed.
OVER VOLTAGE	Range: max. 150% rated output voltage
OVER TEMPERATURE	Range: Tc < 115°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
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; EN61000-4-2, 3, 4, 5, 6
HARMONIC CURRENT	Compliance to EN61000-3-2

OTHERS

INPUT WIRES	H05VVH2-F 2*1.0MM ² , Length = 15cm ± 3cm
OUTPUT WIRES	H05VVH2-F 2*1.0MM ² , Length = 15cm ± 3cm
DIMENSIONS	167.5 x 58 x 17.5mm (L x W x H)
WEIGHT AND PACKING	0.23kg; 50pcs./carton; carton dimensions: 30.5 x 19 x 30.5cm

EAN CODE



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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

