### FTPC50V-C2 series





### ■ Features:

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



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ELECTRICAL SPECIFICATION	·	9 <b>4 4 522</b> (
MODEL	FTPC50V12-C2	FTPC50V24-C2
ОИТРИТ		
RATED VOLTAGE	12V	24V
RATED CURRENT	4.16A	2.08A
CURRENT RANGE	0 ÷ 4.16A	0 ÷ 2.08A
RATED POWER	50W	50W
No LOAD OUTPUT VOLTAGE (MAX.)	12.6V	25.2V
LINE REGLATION	± 0.5%	± 0.5%
LOAD REGLATION	± 1%	± 1%
VOLTAGE TOLERANCE [3]	± 5%	± 5%
RIPPLE & NOISE (MAX.) [2]	360V <sub>P-P</sub>	720V <sub>P-P</sub>
SETUP ТІМЕ [4]	500ms / 230VAC at full load	
HOLD UP TIME (MIN.)	5ms / 230VAC at full load	
INPUT		

INPUT		
VOLTAGE RANGE	180 ÷ 264VAC	
FREQUENCY RANGE	47 ÷ 63Hz	
Power Factor (MIN.)	PF $\geq$ 0.97 / 230VAC at full load	PF $\geq$ 0.98 / 230VAC at full load
EFFICIENCY (MAX.)	87%	88%
AC CURRENT (TYP.)	<0.3A / 230VAC	
INRUSH CURRENT (MAX.)	<30A / 230VAC(25°C)	
NO LOAD POWER CONSUMPTION (MAX.)	< 0.5W	

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## FTPC50V-C2 series



### 50W LED Power Supply (CV)

PROTECTIONS		
Over Current	Range: 130% 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: 150% rated output voltage.	
Oven Transparting	Range: IC detect temperature	
OVER TEMPERATURE	Type: shut down output voltage. Re-power on to recovery	
WORKING ENVIRONMENT		
WORKING TEMPERATURE	-20°C ÷ +45°C	
Working Humidity	10 ÷ 90% 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	
EMCEMISSION	Compliance to EN55015	
EMCIMMUNITY	Compliance to EN61547; EN61000-4-2, 3, 4, 5, 6	
HARMONIC CURRENT	Compliance to EN61000-3-2; EN61000-3-3	
OTHERS		
DIMENSIONS	159.9 x 57.8 x 18mm (L x W x H)	
LIFETIME	50 000 hours / 230VAC, full load, ta=45°C	
MTBF	200 000 hours / 230VAC, full load, ta=45°C	
WEIGHT AND PACKING	150g; 50pcs./carton; carton dimensions: 30 x 20.5 x 16 cm	

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 $<sup>1. \ \</sup>textit{All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 °C of ambient temperature.} \\$ 

<sup>2.</sup> Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a  $0.1\mu F$  i  $47\mu F$  parallel capacitor.

<sup>3.</sup> Tolerance includes set up tolerance, line regulation and load regulation.

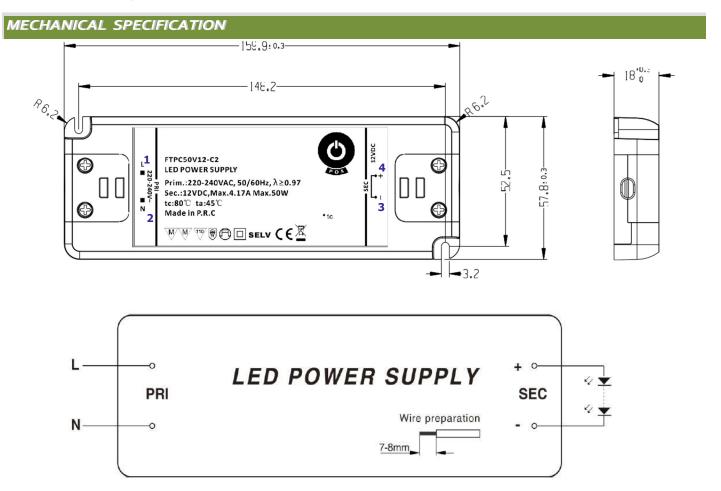
<sup>4.</sup> Setup and rise time is measured from 0 to 90% rated output voltage.

<sup>5.</sup> 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 requality to comply with EMC Directives.

# FTPC50V-C2 series



50W LED Power Supply (CV)



PIN ASSIGNMENT						
No.	Assignment	No.	Assignment			
1	Input: AC/L	3	Output: U <sub>OUT</sub> -			
2	Input: AC/N	4	Output: U <sub>OUT</sub> +			

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