

FTPC20V-C2 series

20W LED 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	FTPC20V12-C2	FTPC20V24-C2
OUTPUT		
RATED VOLTAGE	12V	24V
RATED CURRENT	1.67A	0.83A
CURRENT RANGE	0 ÷ 1.67A	0 ÷ 0.83A
RATED POWER	20W	20W
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]	360mV _{p-p}	720mV _{p-p}
SETUP TIME [4]	500ms / 230VAC at full load	
HOLD UP TIME (MIN.)	5ms / 230VAC at full load	

INPUT

VOLTAGE RANGE	220 ÷ 240VAC	
FREQUENCY RANGE	47 ÷ 63Hz	
POWER FACTOR (MIN.)	PF ≥ 0.95 / 230VAC at full load	
EFFICIENCY (MAX.)	85%	85%
AC CURRENT (TYP.)	<0.13A / 230VAC	
INRUSH CURRENT (MAX.)	<30A / 230VAC(25°C)	
NO LOAD POWER CONSUMPTION (MAX.)	< 0.5W	

PROTECTIONS

OVER CURRENT	130%
SHORT CIRCUIT	Type: hiccup mode. Recovers automatically after fault condition is removed.
OVER TEMPERATURE	Range: IC detection Type: hiccup mode. Recovers automatically after fault condition is removed.

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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

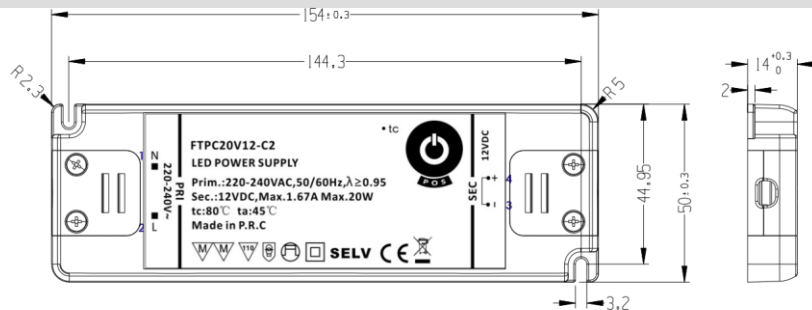
SAFETY STANDARDS	Compliance to EN61347-1, EN61347-2-13
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN61547; EN61000-4-2, 3, 4, 5, 6
HARMONIC CURRENT	Compliance to EN61000-3-2; EN61000-3-3

OTHERS

DIMENSIONS	154 x 50 x 14mm (L x W x H)
LIFETIME	30 000 hours / 230VAC, full load, ta=45°C
MTBF	200 000 hours / 230VAC, full load, ta=45°C
WEIGHT AND PACKING	80g; 100pcs./carton; carton dimensions: 31.5 x 25.5 x 16.5 cm

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 requalify 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+}

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