

FTPC20V series

20W LED Constant Voltage Switching Power Supply



■ Features:

- European AC input
- Protections: Short circuit / Over current / Over temperature
- Cooling by free air convection
- Isolation class II
- Ultra slim shape



ELECTRICAL SPECIFICATION

MODEL	FTPC20V12
OUTPUT	
Rated Voltage	12V
Rated Current	1.67A
Rated Power	20.04W
Tolerance [2]	± 5%
Ripple & Noise (max.) [3]	240mV _{p-p}
Setup time [4]	2000ms
INPUT	
Voltage Range	180 ÷ 264VAC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	82%
AC current (typ.)	0.3A / 230VAC
No load power consumption (typ.)	< 0.5W
Inrush current (max.)	70A / 230VAC(25°C)
PROTECTIONS	
Overload	Range: above 110% rated power
	Type: hiccup mode, recovers automatically after fault condition is removed.
Short circuit	Type: hiccup mode, recovers automatically after fault condition is removed.
Over temperature	Range: 115°C ± 5°C – detect on main control IC
	Type: shut off output voltage, recovers automatically after fault condition is removed.

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WORKING ENVIRONMENT

Working Temperature	-20°C ÷ 45°C (refer to Derating Curve)
Working Humidity	15 ÷ 95% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ 60°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

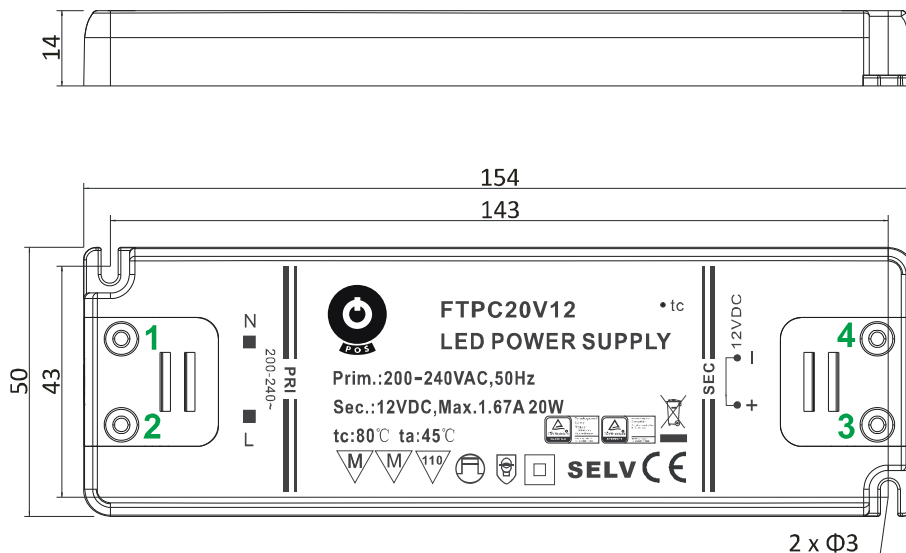
Safet Standards	Compliance to EN61347-1, EN61347-2-13
Withstand Voltage	IN/OUT: 5.3kVDC/1min
Isolation Resistance	IN/OUT: 50MΩ/500VDC/25°C/70%
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6, -8, -11
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

Dimensions	154 x 50 x 14mm (L x W x H)
Weight and Packing	0.11kg; 100pcs./box; box weight and dimensions: 12.7kg, 34 x 19 x 28cm

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Tolerance includes set up tolerance, line regulation and load regulation.
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment must be re-qualify to comply with EMC Directives.

MECHANICAL SPECIFICATION



PIN ASSIGNMENT

No.	Assignment	No.	Assignment
1	Input: AC/N	3	Output: Uwy+
2	Input: AC/L	4	Output: Uwy-