

FTPC100V-C2 series

100W LED Constant voltage Switching Power Supply



■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in active PFC function
- Isolation class II



Ⓢ ELECTRICAL SPECIFICATION

MODEL	FTPC100V12-C2	FTPC100V24-C2
OUTPUT		
Rated Voltage	12V	24V
Rated Current	8.33A	4.17A
Rated Power	100W	
Power Range	0 ÷ 100W	
Line Regulation	± 1%	
Load Regulation	± 2%	
Voltage Tolerance	[2] ± 5%	
Ripple & Noise (max.)	[3] 150mV _{p-p}	250mV _{p-p}
Setup, Rise, Holdup time	[4] 500ms, 30ms, 15ms	
INPUT		
Voltage Range	180 ÷ 264VAC	
Frequency Range	50/60Hz	
Power Factor (typ.)	PF > 0.9 / 230VAC at full load	
Efficiency (typ.)	90%	
AC current (typ.)	0.50A / 230VAC	
Inrush current (max.)	75A / 230VAC(25°C)	
No Load Power Consumption (max.)	0.21W	
PROTECTIONS		
Over Current	Range: 110 ÷ 140%	
Short Circuit	Recoveries automatically after fault condition is removed.	
Over voltage	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Over temperature	Type: shut down output voltage. Re-power on to recovery.	

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WORKING ENVIRONMENT

Working Temperature	-20°C ÷ 45°C
Working Humidity	10 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ 80°C, 10 ÷ 90% 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;
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2 class C (≥ 100% load)

OTHERS

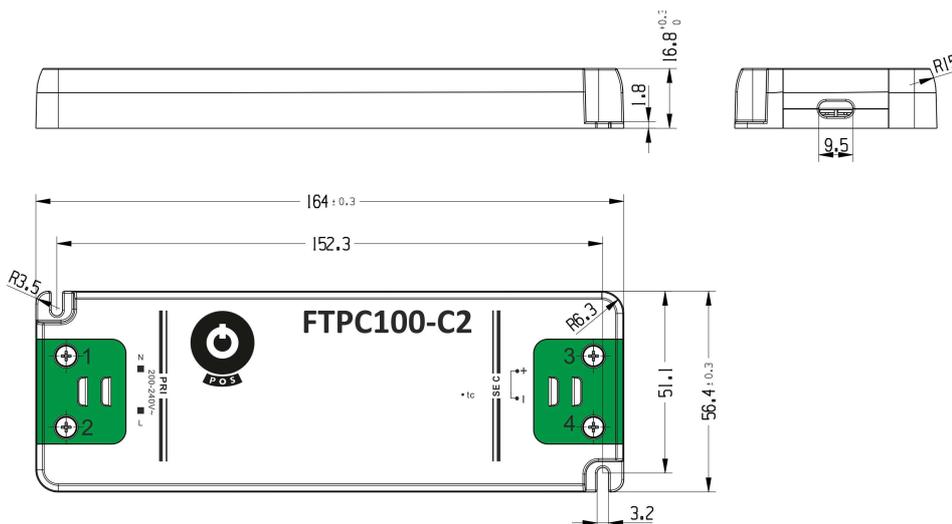
Dimensions	164 x 56.4 x 16.8mm (L x W x H)
Weight and Packing	0.15kg; 100pcs./ctn; ctn weight and dimensions: 11.5kg, 33.4 x 29.5 x 19.5cm

EAN Code



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