

FTPC200V series

200W LED Switching Power Supply (CV)



■ Features:

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



⊗ ELECTRICAL SPECIFICATION

MODEL	FTPC200V12	
OUTPUT		
Rated Voltage	12V	24V
Rated Current	15A	8.33A
Current Range	0 ÷ 15A	0 ÷ 8.33A
Rated Power	180W	199.92W
No Output Voltage (max.)	12.6V	24.8V
Line Regulation	± 1%	
Load Regulation	± 2%	
Voltage Tolerance [3]	± 5%	
Ripple & Noise (max.) [2]	200mV _{p-p}	300mV _{p-p}
Setup, Rise Time [4]	500ms, 60ms / 230VAC at full load	
Hold up Time (typ.)	10ms / 230VAC at full load	
INPUT		
Voltage Range	180 ÷ 264VAC	
Frequency Range	47 ÷ 63Hz	
Power Factor (typ.)	PF > 0.95 / 230VAC at full load	
Efficiency (typ.)	92%	93%
AC current (typ.)	1.5A / 230VAC	
Inrush current (max.)	75A / 230VAC(25°C)	
PROTECTIONS		
Over Current	Range: 94 ÷ 120%	
	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Over Voltage	13.5 ÷ 18.5V	
	Type: shut down output voltage. Re-power on to recovery.	
Over Temperature	Range: 110°C ± 10°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 non-condensing
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 , EN 62493
Withstand Voltage	IN/OUT: 3.75kVAC
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

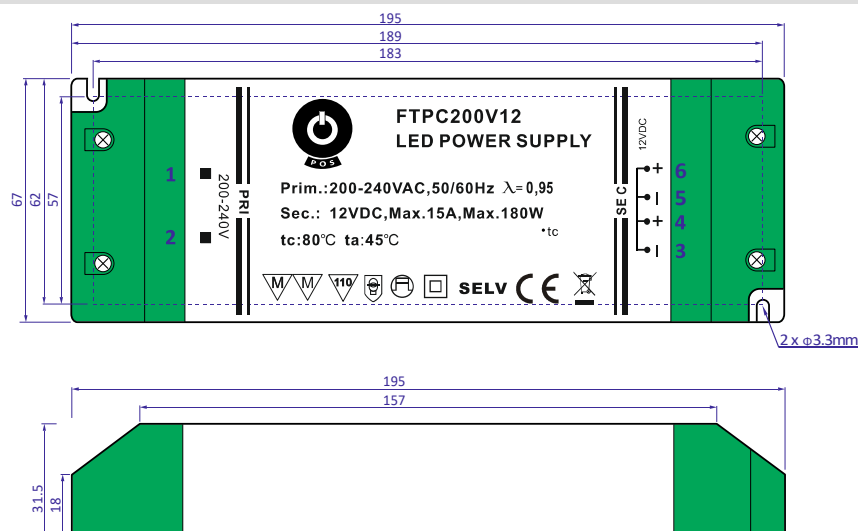
OTHERS

Dimensions	195 x 67 x 31.5mm (L x W x H)
Weight and Packing	0.5kg; 15pcs./box; box dimensions: 20.5 x 23 x 20.5cm

EAN Code	 5 902135 121771	 5 902135 121788
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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



PIN ASSIGNMENT

No.	Assignment	No.	Assignment
1	Input: AC/N	3,5	Output: U _{OUT} -
2	Input: AC/L	4,6	Output: U _{OUT} +

EU DECLARATION OF CONFORMITY

For the following equipment:

Part No.:	FTPC200V12; FTPC200V24
Batch No.:	S17xxxxxxxxx

Is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards were applied:

ROHS Directive 2011/65/EU

Low Voltage Directive 2014/35/UE:

Standard	Description
EN 61347-1:2015	Lamp controlgear. General and safety requirements
EN 61347-2-13:2014	Lamp controlgear. Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
EN 62493:2015	Assessment of lighting equipment related to human exposure to electromagnetic field

Electromagnetic Compatibility Directive 2014/30/UE:

Standard	Description
EN 55015:2013 + A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61000-3-2:2014	Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3:2013	Electromagnetic compatibility (EMC). Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
EN 61547:2009	Equipment for general lighting purposes. EMC immunity requirements

Power supply is considered as component of final equipment not intended to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-qualified to comply with EMC and LVD Directives.

Gliwice, 11.07.2017r.

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Pieczęć firmy

KIEROWNIK
Działu Technicznego

Łukasz Jaromin
Person signature and stamp