

# FTPC200V-S 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
- Extremely short and slim case size



## Ⓢ ELECTRICAL SPECIFICATION

MODEL	FTPC200V12-S	FTPC200V24-S	FTPC200V48-S
<b>OUTPUT</b>			
Rated Voltage	12V	24V	48V
Rated Current	15A	8.33A	4.16A
Current Range	0 ÷ 15A	0 ÷ 8.33A	0 ÷ 4.16A
Rated Power	180W	199.2W	199.68W
No Output Voltage (max.)	12.6V	25.2V	50.4V
Line Regulation	± 1%		
Load Regulation	± 2%		
Voltage Tolerance [3]	± 5%		
Ripple & Noise (max.) [2]	300mV <sub>p-p</sub>	300mV <sub>p-p</sub>	300mV <sub>p-p</sub>
Setup, Rise Time [4]	500ms, 50ms / 230VAC at full load		
Hold up Time (typ.)	10ms / 230VAC at full load		
<b>INPUT</b>			
Voltage Range	180 ÷ 264VAC		
Frequency Range	47 ÷ 63Hz		
Power Factor (typ.)	PF > 0.95 / 230VAC at full load		
Efficiency (typ.)	92%	93%	94%
AC current (typ.)	1.5A / 230VAC		
Inrush current (max.)	75A / 230VAC(25°C)		
No Load Power Consumption (max.)	0.21W		
<b>PROTECTIONS</b>			
Over Current	Range: 110 ÷ 160%		
	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	28 ÷ 36V	52 ÷ 60V
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Temperature	Range: 115°C ± 10°C		
	Type: shut down output voltage. Re-power on to recovery.		

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## WORKING ENVIRONMENT

<b>Working Temperature</b>	-20°C ÷ +45°C
<b>Working Humidity</b>	45 ÷ 85% RH non-condensing
<b>Storage Temperature and Humidity</b>	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing

## SAFETY AND EMC REGULATIONS

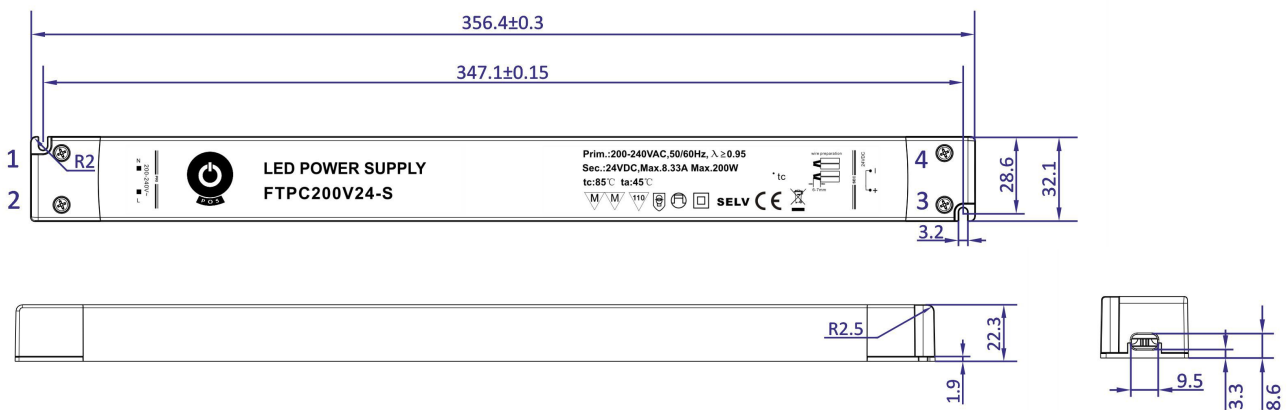
<b>Safety Standards</b>	Compliance to EN61347-1, EN61347-2-13 , EN 62493
<b>Withstand Voltage</b>	IN/OUT: 3.75kVAC
<b>EMC Emission</b>	Compliance to EN55015
<b>EMC Immunity</b>	Compliance to EN61547
<b>Harmonic Current</b>	Compliance to EN61000-3-3; EN61000-3-2

## OTHERS

<b>Dimensions</b>	356.4 x 32.1 x 22.3mm(L x W x H)		
<b>Weight</b>	0.34kg; 20pcs./box; box dimensions: 37.5 x 18 x 16.5cm		
<b>EAN Code</b>			N/D

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	Output: U <sub>OUT</sub> +
2	Input: AC/L	4	Output: U <sub>OUT</sub> -