

# FTPC30V-S series

30W Constant Voltage LED Power Supply



## ■ Features:

- European AC Input
- Protections: Short circuit / Over load / Over voltage / Temperature
- Cooling by free air convection
- Built-in active PFC function
- Isolation class II
- Extremely short and slim case size



## ELECTRICAL SPECIFICATION

MODEL	FTPC30V12-S	FTPC30V24-S	FTPC30V48-S
<b>OUTPUT</b>			
<b>RATED VOLTAGE</b>	12V	24V	48V
<b>RATED CURRENT</b>	2.5A	1.25A	0.625A
<b>POWER RANGE</b>	1 ÷ 30W		
<b>RATED POWER</b>	30W		
<b>LINE REGULATION</b>	± 1%		
<b>LOAD REGULATION</b>	± 1%		
<b>VOLTAGE TOLERANCE [3]</b>	± 5%		
<b>RIPPLE &amp; NOISE (max.) [2]</b>	240mV <sub>p-p</sub>	480mV <sub>p-p</sub>	960mV <sub>p-p</sub>
<b>SETUP</b>	1000ms		
<b>INPUT</b>			
<b>VOLTAGE RANGE</b>	180 ÷ 264VAC		
<b>FREQUENCY RANGE</b>	47 ÷ 63Hz		
<b>POWER FACTOR (typ.)</b>	PF > 0.9 / 230VAC at full load		
<b>EFFICIENT (typ.)</b>	85%	85%	85%
<b>AC CURRENT (typ.)</b>	0.5A / 230VAC		
<b>INRUSH CURRENT (max.)</b>	60A / 230VAC(25°C)		
<b>PROTECTIONS</b>			
<b>OVERLOAD</b>	Range: 110 ÷ 160% rated current		
	Type: hiccup mode, auto-recovery.		
<b>SHORT CIRCUIT</b>	Type: hiccup mode, auto-recovery.		
<b>OVER VOLTAGE</b>	16 ÷ 21V	26 ÷ 36V	50 ÷ 60V
	Type: shut off output voltage. Re-power on to recovery.		
<b>OVER TEMPERATURE</b>	Range: 110°C ± 5°C		
	Type: shut off output voltage. Re-power on to recovery.		

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## ENVIRONMENT

<b>WORKING TEMPERATURE</b>	-20°C ÷ 50°C
<b>WORKING HUMIDITY</b>	20 ÷ 98% RH non-condensing
<b>STORAGE TEMPERATURE AND HUMIDITY</b>	-30°C ÷ 70°C, 10 ÷ 98% RH non-condensing
<b>TEMPERATURE COEFFICIENT</b>	± 0.05% / °C (-20°C ÷ 45°C)
<b>VIBRATION</b>	10 ÷ 500Hz, 2G, 10min / cycle, period for 30min. each along X, Y, Z axes

## SAFETY & EMC REGULATIONS

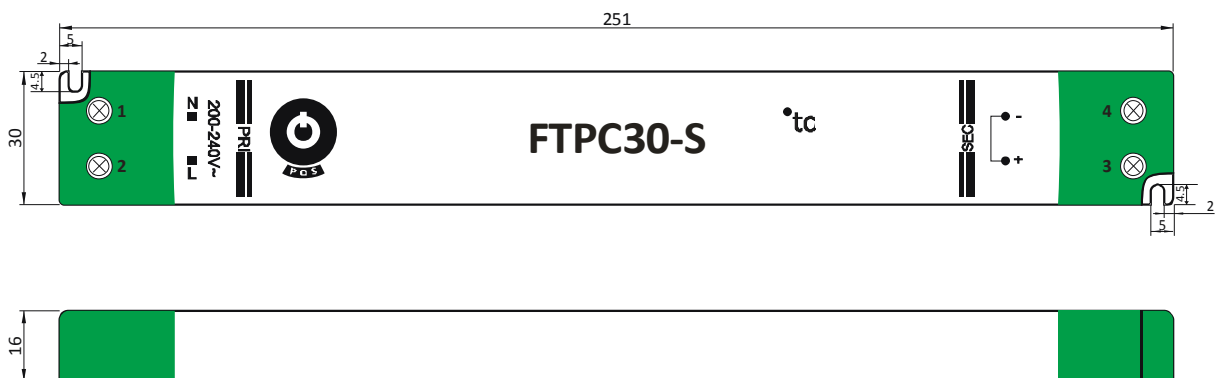
<b>SAFETY STANDARDS</b>	Compliance to EN61347-1, EN61347-2-13
<b>WITHSTAND VOLTAGE</b>	I-P/O-P: 3.75kVAC/1min
<b>ISOLATION RESISTANCE</b>	I-P/O-P: 50MΩ/500VDC/25°C/70%
<b>EMC EMISSION</b>	Compliance to EN55015
<b>EMC IMMUNITY</b>	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
<b>HARMONIC CURRENT</b>	Compliance to EN61000-3-3; EN61000-3-2 class C(100% load)

## OTHERS

<b>DIMENSIONS</b>	251 x 30 x 16mm (L x W x H)
<b>WEIGHT AND PACKING</b>	0.115kg; 100pcs./box; box weight and dimensions: 15.3kg, 42 x 28 x 25.5cm

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 / 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. 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: U <sub>OUT+</sub>
2	Input: AC/L	4	Output: U <sub>OUT-</sub>