

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
OUTPUT			
RATED VOLTAGE	12V		24V
RATED CURRENT	2.5A		1.25A
POWER RANGE	1 ÷ 30W		
RATED POWER	30W		
LINE REGULATION	± 1%		
LOAD REGULATION	± 1%		
VOLTAGE TOLERANCE [3]	± 5%		
RIPPLE & NOISE (max.) [2]	240mV _{p.p}		480mV _{p.p}
SETUP	1000ms		
INPUT			
VOLTAGE RANGE	180 ÷ 264VAC		
FREQUENCY RANGE	47 ÷ 63Hz		
POWER FACTOR (typ.)	PF > 0.9 / 230VAC at full load		
EFFICIENT (typ.)	85%		85%
AC CURRENT (typ.)	0.5A / 230VAC		
INRUSH CURRENT (max.)	60A / 230VAC(25°C)		
PROTECTIONS			
OVERLOAD	Range: 110 ÷ 160% rated current		
	Type: hiccup mode, auto-recovery.		
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.		
OVER VOLTAGE	18-21V		16-42V
	Type: shut off output voltage. Re-power on to recovery.		
OVER TEMPERATURE	Range: 110°C ± 5°C		
	Type: shut off output voltage. Re-power on to recovery.		

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ENVIRONMENT

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

SAFETY & EMC REGULATIONS

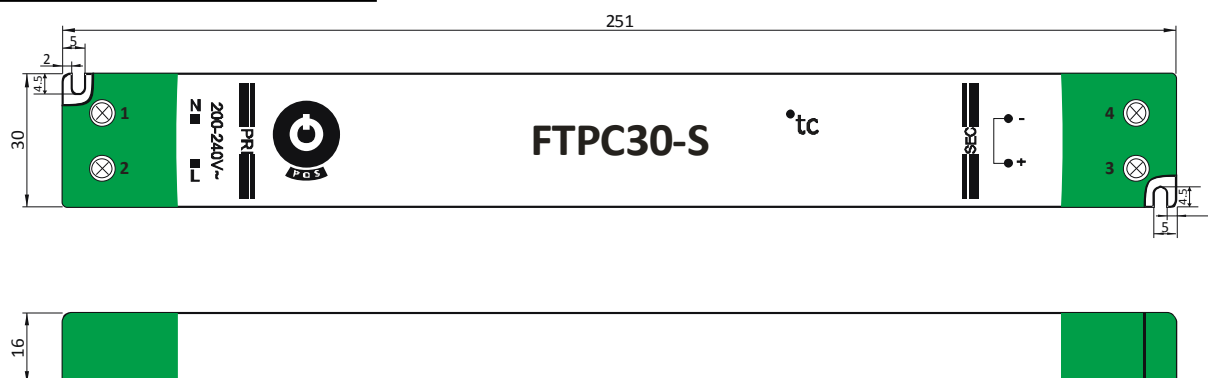
SFAETY STANDARDS	Compliance to EN61347-1, EN61347-2-13
WITHSTAND VOLTAGE	I-P/O-P: 3.75kVAC/1min
ISOLATION RESISTANCE	I-P/O-P: 50MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
HARMONIC CURRENT	Compliance to EN61000-3-3;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

OTHERS

DIMENSIONS	251 x 30 x 16mm (L x W x H)
WEIGHT AND PACKING	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 i 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 _{OUT} +
2	Input: AC/L	4	Output: U _{OUT} -