

FTPC30C-S series

30W Constant Current LED Power Supply



■ Features:

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



ELECTRICAL SPECIFICATION

MODEL	FTPC30C350-S	FTPC30C500-S	FTPC30C700-S	FTPC30C1050-S	FTPC30C1400-S
OUTPUT					
RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA
NO OUTPUT DC VOLTAGE	102VDC	75VDC	55VDC	35VDC	30VDC
VOLTAGE RANGE	43 ÷ 86VDC	30 ÷ 60VDC	21 ÷ 43VDC	14 ÷ 29VDC	11 ÷ 22VDC
RATED POWER	30.1W	30W	30.1W	30.45W	30.8W
CURRENT ACCURACY	±10%				
VOLTAGE RIPPLE & NOISE (max.) [2]	300mV _{p-p}	300mV _{p-p}	200mV _{p-p}	200mV _{p-p}	200mV _{p-p}
CURRENT RIPPLE	70mA _{p-p}	200mA _{p-p}	200mA _{p-p}	210mA _{p-p}	280mA _{p-p}
SETUP TIME	500ms				
INPUT					
VOLTAGE RANGE	180 ÷ 264VAC				
FREQUENCY RANGE	47 ÷ 63Hz				
POWER FACTOR (typ.)	PF > 0.9 / 230VAC at full load				
EFFICIENT (typ.)	85%	85%	85%	85%	85%
AC CURRENT (typ.)	0.25A / 230VAC				
INRUSH CURRENT (max.)	80A / 230VAC(25°C)				
PROTECTIONS					
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.				
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				
VIBRATION	10 ÷ 500Hz, 2G, 10min / cycle, period for 30min. each along X, Y, Z axes				

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SAFETY & EMC REGULATIONS

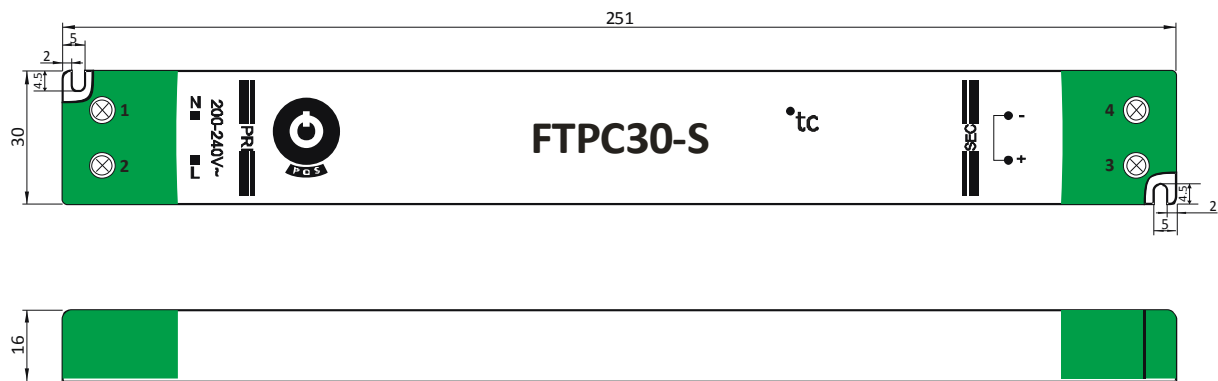
SFAETY STANDARDS	Compliance to EN61347-1, EN61347-2-13
WITHSTAND VOLTAGE	I-P/O-P: 3.75kVAC/1min
ISOLATION RESISTANCE	I-P/O-P: 50MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
HARMONIC CURRENT	Compliance to EN61000-3-3;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

EU DECLARATION OF CONFORMITY

For the following equipment:

Part No.:	FTPC30CX-S (X = 350, 500, 700, 1050, 1400)
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	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, 11.08.2016r.

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