FTPC60V-S series

60W Constant Voltage LED Power Supply

■ **Features:**

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

ELECTRICAL SPECIFICATION

MODEL	FTPC60V12-S	FTPC60V24-S
OUTPUT		
RATED VOLTAGE	12V	24V
RATED CURRENT	5A	2.55A
POWER RANGE	1 ÷ 60W	
RATED POWER	60W	
LINE REGULATION	± 1%	
LOAD REGULATION	± 1%	
VOLTAGE TOLERANCE [3]	± 5%	
RIPPLE & NOISE (max.) [2]	500mV$_{P-P}$	600mV$_{P-P}$
SETUP	500ms	
INPUT		
VOLTAGE RANGE	180 ÷ 264VAC	
FREQUENCY RANGE	47 ÷ 63Hz	
POWER FACTOR (typ.)	PF > 0.9 / 230VAC at full load	
EFFICIENT (typ.)	88%	88%
AC CURRENT (typ.)	0.5A / 230VAC	
INRUSH CURRENT (max.)	75A / 230VAC(25°C)	
PROTECTIONS		
OVERLOAD	Range: 110 ÷ 160% rated current	
	Type: hiccup mode, auto-recovery.	
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.	

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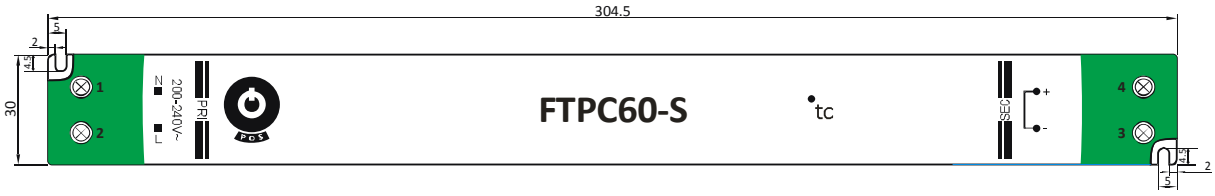
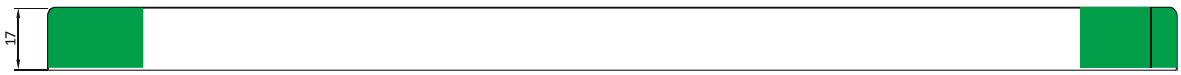
ENVIRONMENT	
WORKING TEMPERATURE	-20°C ÷ 45°C
WORKING HUMIDITY	20 ÷ 98% RH non-condensing
STORAGE TEMPERATURE AND HUMIDITY	-30°C ÷ 70°C, 10 ÷ 98% RH non-condensing
TEMPERATURE COEFFICIENT	± 0.05% / °C (-20°C ÷ 45°C)
VIBRATION	10 ÷ 500Hz, 2G, 10min / cycle, period for 30min. each along X, Y, Z axes
SAFETY & 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	Compliande 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	304.5 x 30 x 17mm (L x W x H)
WEIGHT AND PACKING	0.165kg; 50pcs./box; box weight and dimensions: 10.2kg, 42 x 36.5 x 15cm

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 incudes 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}+**