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

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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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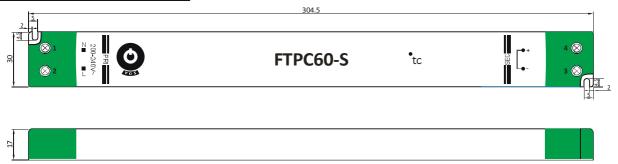
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ENVIRONMENT		
WORKING TEMPERATURE	-20°C ÷ 45°C	
WORKING HUMIDITY	20 ÷ 98% RH non-condensing	
STORAGE TEMPERATURE AND HUMIDITY	$-30^{\circ}\text{C} \div 70^{\circ}\text{C}$, $10 \div 98\%$ RH non-condensing	
TEMPERATURE COEFFICIENT	± 0.05% / °C (-20°C ÷ 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 0.1μ F i 47μ F 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} +	