FTPC75V-S series

75W LED Switching Power Supply (CV)

■ Features:

• Constant voltage design

• European AC input range

• Protections: Short circuit / Over current / Over voltage

• Cooling by free air convection

• Compliance to worldwide regulations for lighting

• Extremely short and slim case size

⊚ ELECTRICAL SPECIFICATION

MODEL	FTPC75V12-S	FTPC75V24-S
OUTPUT		
Rated Voltage	12V	24V
Rated Current	6.25A	3.125A
Current Range	0 ÷ 6.25A	0 ÷ 3.125A
Rated Power	75W	75W
No Output Voltage (max.)	12.6V	25.2V
Line Regulation	± 1%	
Load Regulation	± 2%	
Voltage Tolerance [3]	± 5%	
Ripple & Noise (max.) [2]	300mV$_{P-P}$	
Setup, Rise Time [4]	500ms, 50ms / 230VAC at full load	
Hold up Time (typ.)	10ms / 230VAC at full load	
INPUT		
Voltage Range	180 ÷ 264VAC	
Frequency Range	47 ÷ 63Hz	
Power Factor (typ.)	PF > 0.9 / 230VAC at full load	
Efficiency (typ.)	89%	
AC current (typ.)	0.6A / 230VAC	
Inrush current (max.)	75A / 230VAC(25°C)	
No Load Power Consumption (max.)	0.5W	
PROTECTIONS		
Over Current	Range: 110 ÷ 140%	
	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Over Voltage	13.5 ÷ 18.5V	28 ÷ 36V
	Type: shut down output voltage. Re-power on to recovery.	

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WORKING ENVIRONMENT

Working Temperature	-20°C ÷ +45°C
Working Humidity	45 ÷ 85% RH non-condensing
Storage Temperature and Humidity	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

Safety Standards	Compliance to EN61347-1, EN61347-2-13 , EN 62493
Withstand Voltage	IN/OUT: 3.75kVAC
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

Dimensions	304.6 x 30 x 16.7mm(L x W x H)
Weight	0.21kg; 50pcs./box; box dimensions: 35 x 20 x 27.5cm
EAN Code	5 902135 132890 5 902135 132906

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. Setup and rise time is measured from 0 to 90% rated output voltage.
5.Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

◎ MECHANICAL SPECIFICATION
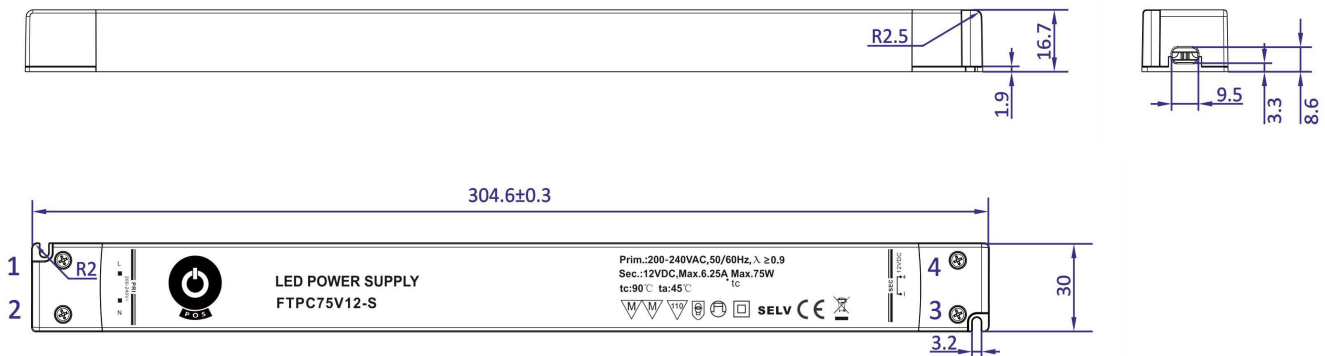
PIN ASSIGNMENT

No.	Assignment	No.	Assignment
1	Input: AC/N	3	Output: U_{OUT} -
2	Input: AC/L	4	Output: U_{OUT} +