

# FTPC75V-L series

75W LED Power Supply (CV)



## ■ Features:

- Constant voltage design
- European AC input range
- Protections: Overload / Over voltage / Short circuit / Over temperature
- Cooling by free air convection
- Compliance to worldwide regulations for lighting



## ELECTRICAL SPECIFICATION

MODEL	FTPC75V12-L	FTPC75V24-L				
<b>OUTPUT</b>						
<b>RATED VOLTAGE</b>	12V	24V				
<b>RATED CURRENT</b>	6.25A	3.125A				
<b>CURRENT RANGE</b>	0 ÷ 6.25A	0 ÷ 3.125A				
<b>RATED POWER</b>	75W	75W				
<b>NO LOAD OUTPUT VOLTAGE (MAX.)</b>	12.6V	25.2V				
<b>LINE REGULATION</b>	± 1%	± 1%				
<b>LOAD REGULATION</b>	± 1%	± 1%				
<b>VOLTAGE TOLERANCE [3]</b>	± 5%	± 5%				
<b>RIPPLE &amp; NOISE (MAX.) [2]</b>	360mV <sub>p-p</sub>	720mV <sub>p-p</sub>				
<b>SETUP TIME [4]</b>	500ms / 230VAC at full load					
<b>INPUT</b>						
<b>VOLTAGE RANGE</b>	200 ÷ 240VAC					
<b>FREQUENCY RANGE</b>	50 / 60Hz					
<b>POWER FACTOR (MIN.)</b>	PF ≥ 0.9 / 230VAC at full load					
<b>THD (MAX)</b>	10%					
<b>EFFICIENCY (MAX.)</b>	90%	91%				
<b>AC CURRENT (TYP.)</b>	< 0.4A / 230VAC					
<b>INRUSH CURRENT (TYP.)</b>	35A / 230VAC; T <sub>WIDTH</sub> = 535µs					
<b>MAX. NO. OF PSU ON CIRCUIT BREAKER</b>	B10	B16	C10	C16	D10	D16
	10	16	15	24	20	32
<b>NO LOAD POWER CONSUMPTION (MAX.)</b>	< 0.5W					

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## PROTECTIONS

<b>OVER CURRENT</b>	Range: 120% rated output power Type: hiccup mode. Recovers automatically after fault condition is removed.
<b>SHORT CIRCUIT</b>	Type: hiccup mode. Recovers automatically after fault condition is removed.
<b>OVER VOLTAGE</b>	Range: 150% rated output voltage.
<b>OVER TEMPERATURE</b>	Range: IC detection (115°) Type: shut down output voltage. Re-power on to recovery

## WORKING ENVIRONMENT

<b>WORKING TEMPERATURE</b>	-20°C ÷ +45°C
<b>WORKING HUMIDITY</b>	10 ÷ 90% RH

## SAFETY AND EMC REGULATIONS

<b>SAFETY STANDARDS</b>	Compliance to EN61347-1, EN61347-2-13
<b>EMC EMISSION</b>	Compliance to EN55015
<b>EMC IMMUNITY</b>	Compliance to EN61547
<b>HARMONIC CURRENT</b>	Compliance to EN61000-3-2 Class C
<b>OTHER REGULATIONS</b>	Compliance to Commission Regulation (EU) 2019/2020

## OTHERS

<b>DIMENSIONS</b>	170 x 44.5 x 28.2mm (L x W x H)
<b>LIFETIME</b>	50 000 hours / 230VAC, full load, tc < 80°C
<b>MTBF</b>	200 000 hours / 230VAC, full load, ta = 45°C
<b>WEIGHT AND PACKING</b>	0.18kg; 25pcs./carton; carton dimensions: 23.5 x 17.5 x 16.5cm

**EAN CODE**



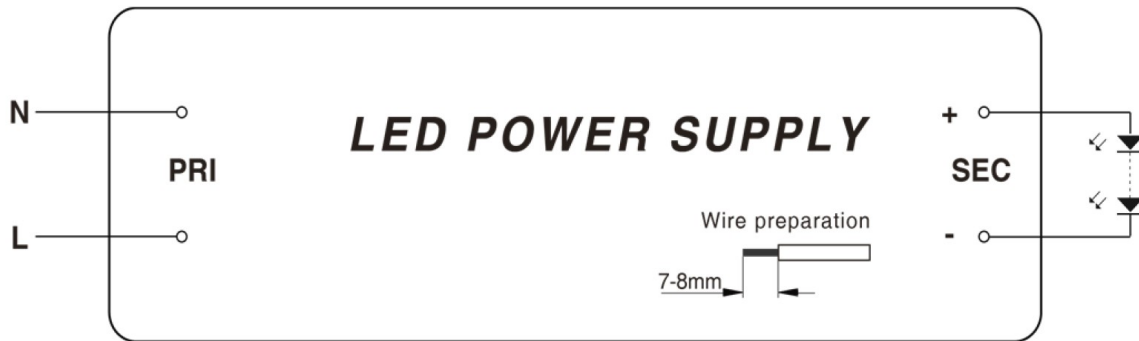
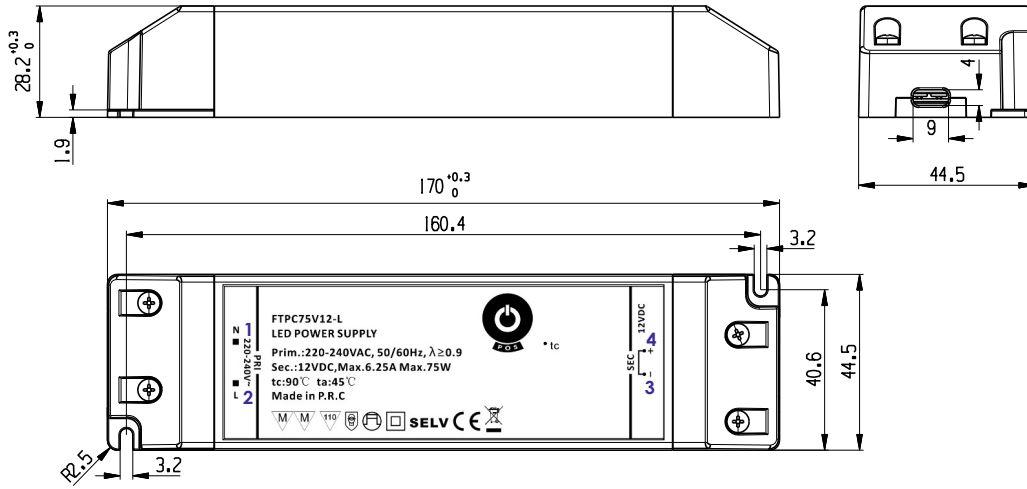
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation 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 equality to comply with EMC Directives.

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## MECHANICAL SPECIFICATION



## PIN ASSIGNMENT

No.	Assignment	No.	Assignment
1	Input: AC/L	3	Output: U <sub>OUT</sub> -
2	Input: AC/N	4	Output: U <sub>OUT</sub> +