

# FTPC75V-D series

75W LED Triac Dimmable Switching Power Supply (CV+CC)



## ■ Features:

- Constant voltage + constant current design
  - European AC input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
  - Cooling by free air convection
- AC phase cut (leading or trailing edge) dimmable
  - Built-in active PFC function



## © ELECTRICAL SPECIFICATION

MODEL	FTPC75V12-D	FTPC75V24-D
<b>OUTPUT</b>		
<b>Rated Voltage</b>	12V	24V
<b>Rated Current</b>	6.25A	3.125A
<b>Current Range</b>	2 ÷ 6.25A	1 ÷ 3.125A
<b>Rated Power</b>	75W	75W
<b>No Load Output Voltage (max.)</b>	<13V	<25V
<b>Line Regulation</b>	± 1%	± 1%
<b>Load Regulation</b>	± 6%	± 6%
<b>Voltage Tolerance [3]</b>	± 5%	± 5%
<b>Ripple &amp; Noise (max.) [2]</b>	180mV <sub>p-p</sub>	300mV <sub>p-p</sub>
<b>Setup, Rise Time [4]</b>	500ms, 20ms / 230VAC at full load	
<b>Hold up Time (typ.)</b>	1.5ms / 230VAC at full load	
<b>INPUT</b>		
<b>Voltage Range</b>	220 ÷ 240VAC	
<b>Frequency Range</b>	47 ÷ 63Hz	
<b>Power Factor (typ.)</b>	PF > 0.9 / 230VAC at full load	
<b>Efficiency (typ.)</b>	85%	
<b>AC current (typ.)</b>	<1A / 230VAC	
<b>Inrush current (max.)</b>	75A / 230VAC (25°C)	
<b>No Load Power Consumption (max.)</b>	< 1W	
<b>DIMMING</b>		
<b>Dimming Range</b>	1 – 100% of rated output current	
<b>Suitable dimmers</b>	Triac dimmers (leading or trailing edge) compatible with capacitive or inductive load	

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## PROTECTIONS

<b>Over Current</b>	Range: > 120%
	Type: Decrease output current. Recovers automatically after fault condition is removed.
<b>Short Circuit</b>	Type: Decrease output current. Recovers automatically after fault condition is removed.
<b>Over Voltage</b>	< 18V <span style="float: right;">&lt; 36V</span>
	Type: shut down output voltage. Re-power on to recovery.
<b>Over Temperature</b>	Range: 115°C ± 10°C
	Type: Decrease output current. Recovers automatically after fault condition is removed.

## WORKING ENVIRONMENT

<b>Working Temperature</b>	-20°C ÷ +45°C
<b>Working Humidity</b>	15 ÷ 85% RH non-condensing
<b>Storage Temperature and Humidity</b>	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing

## SAFETY AND EMC REGULATIONS

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

## OTHERS

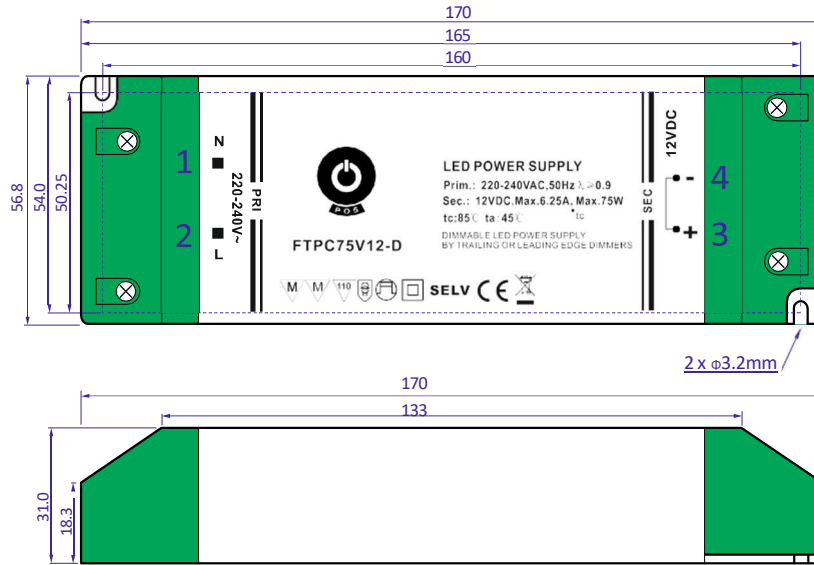
<b>Dimensions</b>	170 x 56.8 x 31mm (L x W x H)
<b>Weight and Packing</b>	0.25kg; 25pcs./ctn

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.

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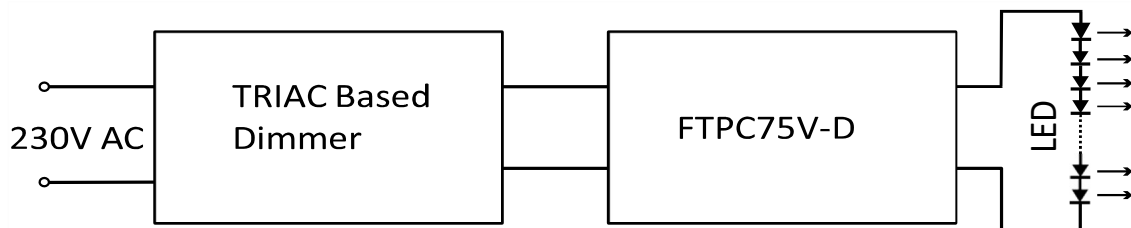
## © MECHANICAL SPECIFICATION



## PIN ASSIGNMENT

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

## © SUGGESTED CONNECTION DIAGRAM WITH DIMMER



### SUITABLE DIMMERS

HAGER-WBMD400TO

CLIPSAL 32E450LM

NIKO 310-01900

LEGRAND 78401

RECOM REDIM07

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