

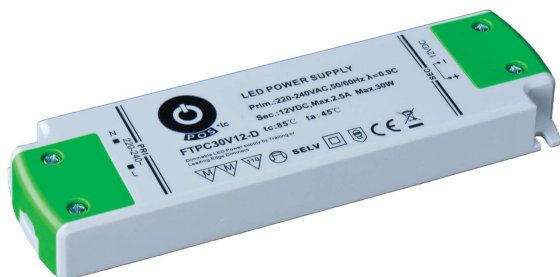
# FTPC30V-D series

30W 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	FTPC30V12-D	FTPC30V24-D
OUTPUT		
Rated Voltage	12V	24V
Rated Current	2.5A	1.25A
Current Range	0.04 ÷ 2.5A	0.04 ÷ 1.25A
Rated Power	30W	30W
No Load Output Voltage (max.)	16V	30V
Line Regulation	± 1%	± 1%
Load Regulation	± 5%	± 6%
Voltage Tolerance [3]	± 5%	± 6%
Ripple & Noise (max.) [2]	1500mV <sub>p-p</sub>	1600mV <sub>p-p</sub>
Setup, Rise Time [4]	500ms, 30ms / 230VAC at full load	
Hold up Time (typ.)	5ms / 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.)	83%	84%
AC current (typ.)	0.2A / 230VAC	
Inrush current (max.)	90A / 230VAC(25°C)	
No Load Power Consumption (max.)	0.5W	
DIMMING		
Dimming Range	1 – 100% of rated output current	
Suitable dimmers	Triac dimmers (leading or trailing edge) compatible with capacitive or inductive load	

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## PROTECTIONS

<b>Over Current</b>	Range: > 100%	
	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>	> 15.5V	> 24.7V
	Type: shut down output voltage. Re-power on to recovery.	
<b>Over Temperature</b>	Range: 110°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>	45 ÷ 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>	159 x 46 x 18mm (L x W x H)
<b>Weight and Packing</b>	0.2kg; 50pcs./box

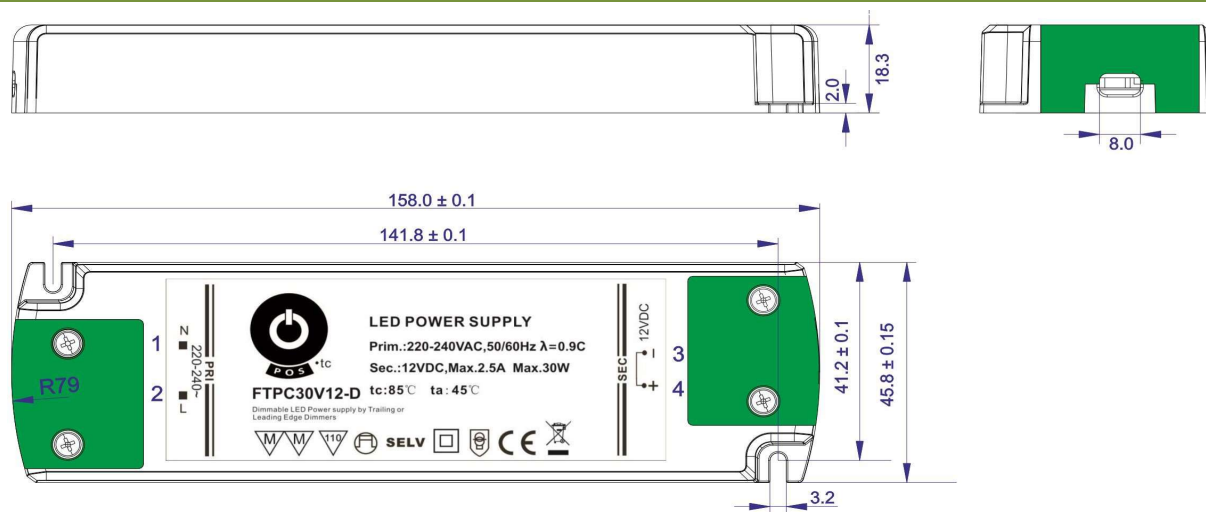
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation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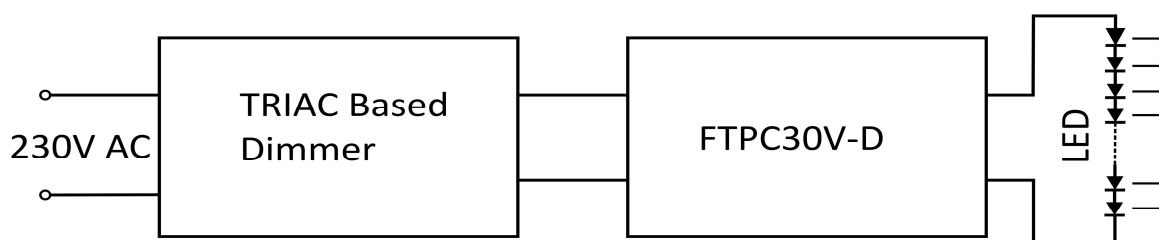
## © MECHANICAL SPECIFICATION



## 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