

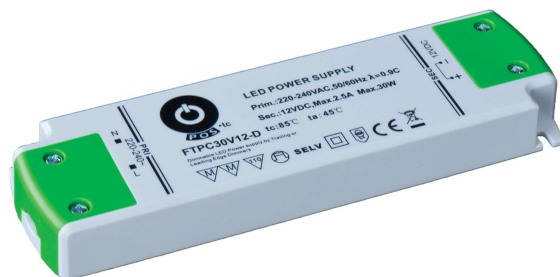
FTPC30V-D series

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

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 _{p-p}	1600mV _{p-p}
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

Over Current	Range: > 100%	
	Type: Decrease output current. Recovers automatically after fault condition is removed.	
Short Circuit	Type: Decrease output current. Recovers automatically after fault condition is removed.	
Over Voltage	> 15.5V	> 24.7V
	Type: shut down output voltage. Re-power on to recovery.	
Over Temperature	Range: 110°C ± 10°C	
	Type: Decrease output current. Recovers automatically after fault condition is removed.	

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
Withstand Voltage	IN/OUT: 3.75kVAC
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-3-2, EN61000-3-3

OTHERS

Dimensions	159 x 46 x 18mm (L x W x H)
Weight and Packing	0.2kg; 50pcs./box

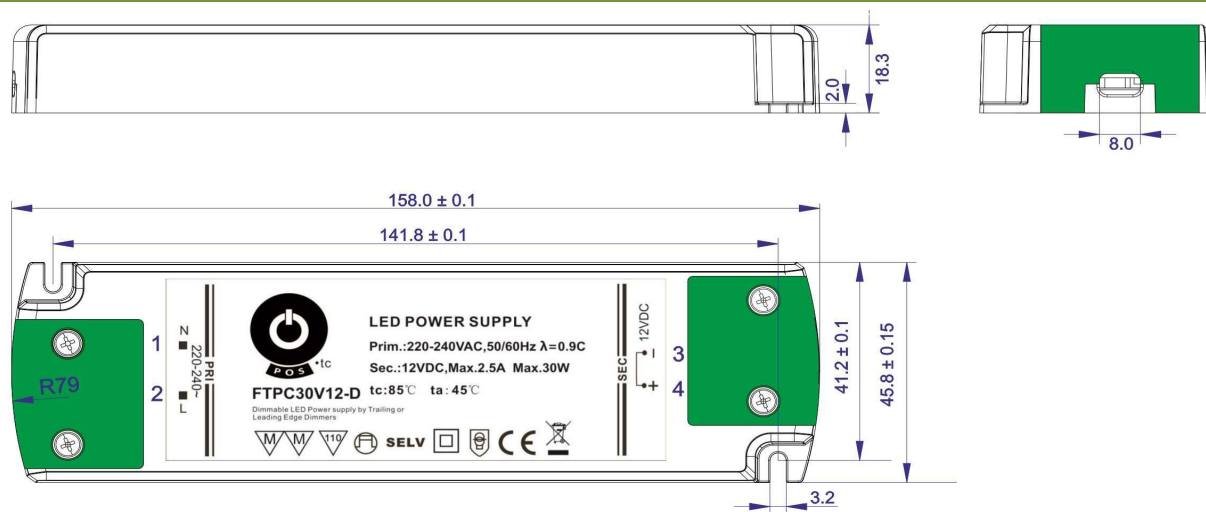
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation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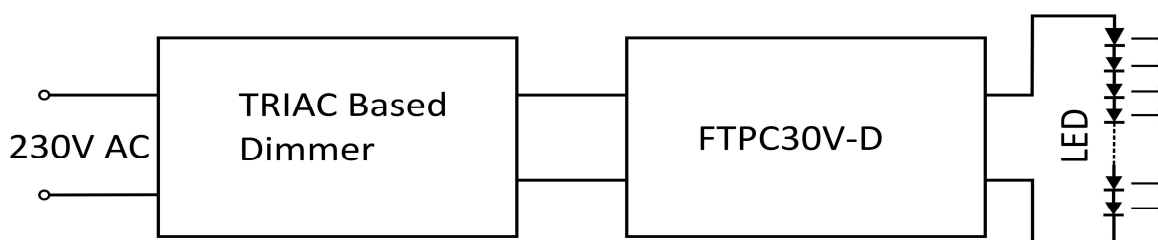
© MECHANICAL SPECIFICATION



PIN ASSIGNMENT

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

© SUGGESTED CONNECTION DIAGRAM WITH DIMMER



SUITABLE DIMMERS

HAGER-WBMD400TO

CLIPSAL 32E450LM

NIKO 310-01900

LEGRAND 78401

RECOM REDIM07

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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[PRE](#) [LC 8/180/44 FIXC SR SNC2](#) [LC 19/200-350/54 FLEXC LP SNC4](#) [BXDR-PS-75BS-E116D-01-A](#) [LC 30/500/54 FIXC SR SNC2](#) [LCA](#)
[60W 24V ONE4ALL SC PRE SP](#) [LC 60W 75-330MA 310V FLEXC NF H16 EXC4](#) [LC 8/180/42 FIXC PC SR SNC2](#) [LC 10/350/29 FIXC SR](#)
[SNC2](#) [LC 50/100-400/140 PO4A NF H16 PRE3](#) [LC 25/600/42 FIXC SRL ADV2](#) [LCO 24/200-1050/39 NF C ADV3](#) [ELEMENT](#)
[35/220...240/900 G3](#) [LC 25W 350-1050MA FLEXC SR EXC](#) [LC 35W 24 ONE4ALL IP PRE](#) [BXDR-PS-25BS-E107D-01-A](#) [LC 17W 250-](#)
[700MA FLEXC SR EXC](#) [LC 14W 700MA FIXC PC SR SNC2](#) [LC 200W 24V SC SNC](#) [LC 65W 200-350MA 210V FLEXC LP SNC4](#) [LC](#)
[60/1400/43 FIXC SR SNC2](#) [LC 75W 250-400MA 220V O4A LP ADV](#) [4880](#) [PWM-60-24DA2](#) [PWM-90-48DA2](#) [8538](#) [LC 165/400-700/320](#)
[FLEXC LP SNC4](#) [LCO 40W 200-1050MA 64V O4A NF C EXC3](#)