

FTPC100V-D series

100W LED Triac Dimmable Switching Power Supply (CV)



■ Features:

- Constant voltage design
- Protections: Short circuit / Overload / Over temperature
- AC phase cut (leading or trailing edge) dimmable
- Cooling by free air convection
- Compliance to worldwide regulations for lighting



Ⓢ ELECTRICAL SPECIFICATION

MODEL	FTPC100V12-D	FTPC100V24-D
OUTPUT		
Rated Voltage	12V	24V
Rated Current	8.33A	4.17A
Current Range	0 ÷ 8.33A	0 ÷ 4.17A
Rated Power	100W	100W
No Output Voltage (max.)	12.6V	25.2V
Line Reglation	± 1%	
Load Regulation	± 1%	
Voltage Tolerance [3]	± 3%	
Ripple & Noise (max.) [2]	300mV _{p,p}	
Setup, Rise Time [4]	500ms, 100ms / 230VAC at full load	
Hold up Time (typ.)	10ms / 230VAC at full load	
INPUT		
Voltage Range	220 ÷ 240VAC	
Frequency Range	47 ÷ 63Hz	
Power Factor (typ.)	PF > 0.9 / 230VAC at full load	
Efficiency (typ.)	85%	
AC current (typ.)	<1A / 230VAC	
Inrush current (max.)	<75A / 230VAC(25°C)	
No Load Power Consumption (max.)	< 1W	
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: 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 Temperature	Range: 110°C ± 10°C
	Type: shut down output voltage. Re-power on to recovery.

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	200 x 63 x 30mm (L x W x H)
Weight and Packing	0.45kg; 25pcs./box; box dimensions: 34 x 20.5 x 18.5cm

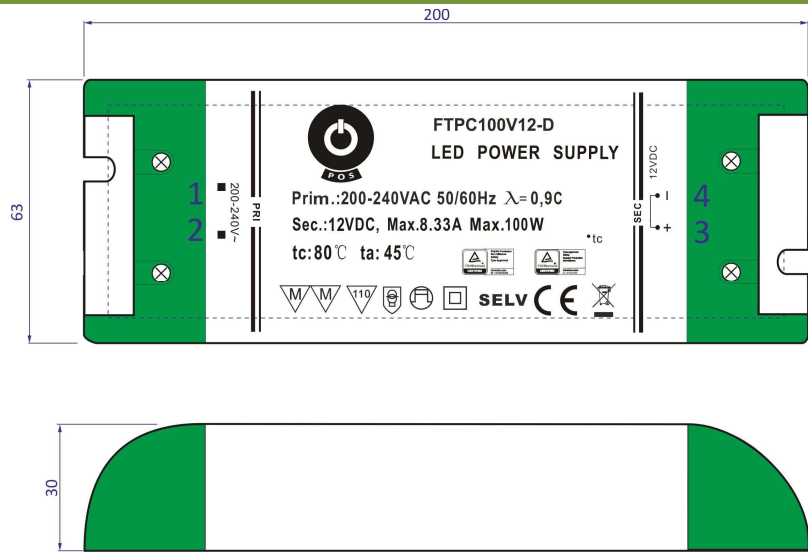
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation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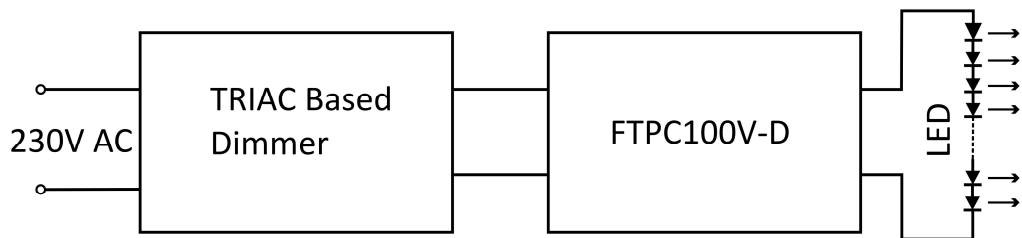
©MECHANICAL SPECIFICATION



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