

# 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
<b>OUTPUT</b>		
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 Regulation	± 1%	
Load Regulation	± 1%	
Voltage Tolerance [3]	± 3%	
Ripple & Noise (max.) [2]	300mV <sub>p-p</sub>	
Setup, Rise Time [4]	500ms, 100ms / 230VAC at full load	
Hold up Time (typ.)	10ms / 230VAC at full load	
<b>INPUT</b>		
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	
<b>PROTECTIONS</b>		
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.	

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## 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 , EN 62493
<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 EN61000-3-3; EN61000-3-2

## OTHERS

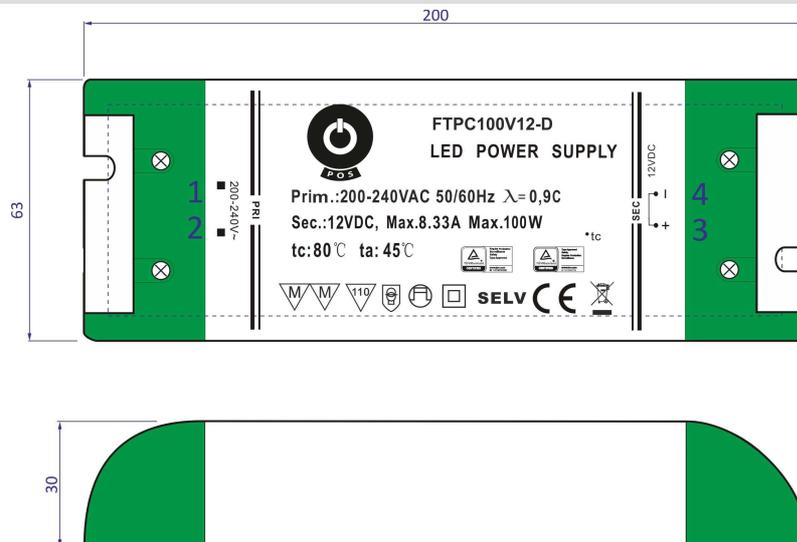
<b>Dimensions</b>	200 x 63 x 30mm (L x W x H)
<b>Weight and Packing</b>	0.45kg; 25pcs./box; box dimensions: 34 x 20.5 x 18.5cm

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 re-quality to comply with EMC Directives.

## MECHANICAL SPECIFICATION



## PIN ASSIGNMENT

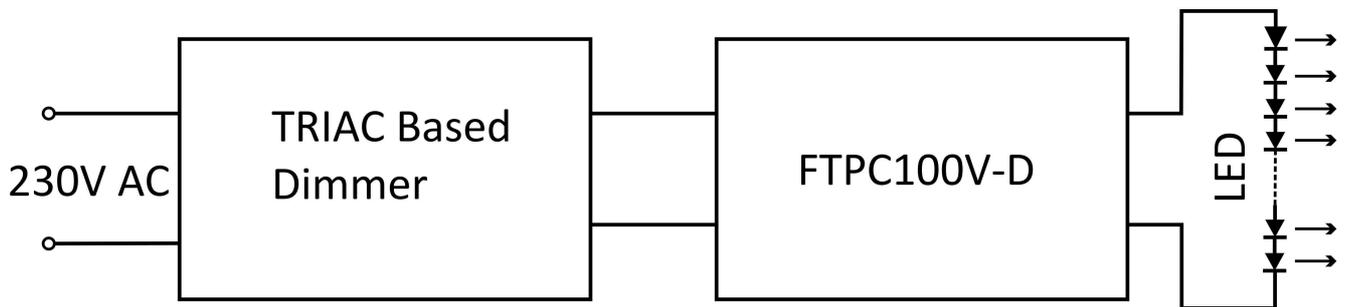
No.	Assignment	No.	Assignment
1	Input: AC/N	3	Output: U <sub>OUT</sub> +
2	Input: AC/L	4	Output: U <sub>OUT</sub> -

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## © Dimming



Connection of Dimmer Switch

SUITABLE DIMMERS
HAGER-WBMD400TO
CLIPSAL 32E450LM
NIKO 310-01900
LEGRAND 78401
RECOM REDIM07