

FTPC150V-D series

150W LED Triac Dimmable Switching Power Supply (CV)



■ Features:

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



Ⓞ ELECTRICAL SPECIFICATION

MODEL	FTPC150V12-D	FTPC150V24-D
OUTPUT		
Rated Voltage	12V	24V
Rated Current	11 A	6.25A
Current Range	4 ÷ 11A	2 ÷ 6.25A
Rated Power	132W	150W
No Output Voltage (max.)	13V	25V
Line Regulation	± 1%	
Load Regulation	± 1%	
Voltage Tolerance [3]	± 3%	
Ripple & Noise (max.) [2]	500mV _{p-p}	500mV _{p-p}
Setup, Rise Time [4]	500ms, 70ms / 230VAC at full load	
Hold up Time (typ.)	20ms / 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.)	90%	
AC current (typ.)	<1A / 230VAC	
Inrush current (max.)	<75A / 230VAC(25°C)	
No Load Power Consumption (max.)	< 1W	
DIMMING		
Dimming Range	10 – 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.	
	Max. 18V	Max. 36V
Over voltage	Type: shut down output voltage. Re-power on to recovery.	
	Range: 110°C ± 10°C	
Over Temperature	Type: auto-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

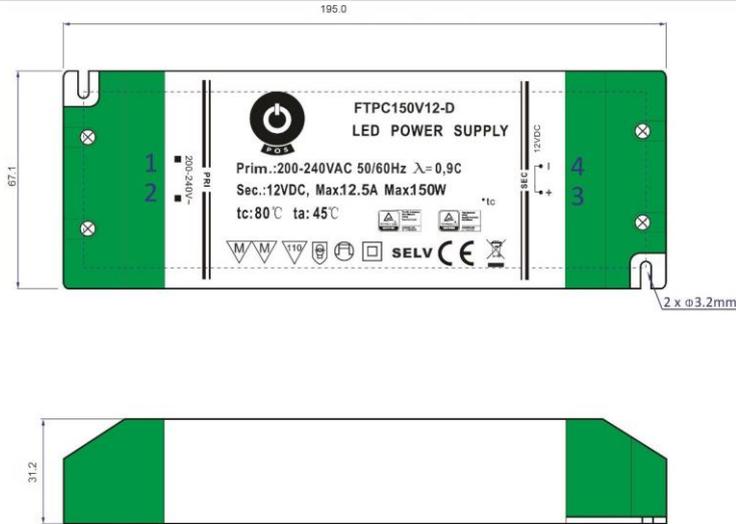
Dimensions	195 x 67.1 x 31.2mm (L x W x H)
Weight and Packing	0.6kg; 15pcs./box; box dimensions: 20.5 x 23 x 20.5cm

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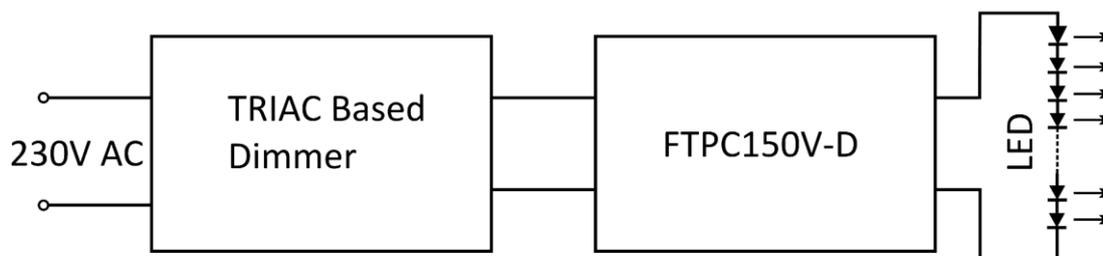
MECHANICAL SPECIFICATION



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

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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](#)
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[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](#)
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