

FTPC100V-S-PCT-PDS series

100W LED Switching Power Supply, push dimming



■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current / Over voltage / Over Temperature
- Cooling by free air convection
- Compliance to worldwide regulations for lighting
- Extremely short and slim case size



© ELECTRICAL SPECIFICATION

MODEL	FTPC100V12-S-PCT-PDS	FTPC100V24-S-PCT-PDS
OUTPUT		
Rated Voltage	12V	24V
Rated Current	8.33	4.16A
Current Range	0 ÷ 8.33A	0 ÷ 4.16A
Rated Power	100W	
No Output Voltage (max.)	12.6V	25.2V
Line Regulation	± 1%	
Load Regulation	± 2%	
Voltage Tolerance [3]	± 5%	
Ripple & Noise (max.) [2]	500mV _{p-p}	600mV _{p-p}
Setup, Rise Time [4]	500ms, 50ms / 230VAC at full load	
Hold up Time (typ.)	10ms / 230VAC at full load	
INPUT		
Voltage Range	180 ÷ 264VAC	
Frequency Range	50 ÷ 60Hz	
Power Factor (typ.)	PF > 0.9 / 230VAC pod pełnym obciążeniem	
Efficiency (typ.)	90%	92%
AC current (typ.)	1.0A / 230VAC	
Inrush current (max.)	75A / 230VAC(25°C)	
No Load Power Consumption (max.)	0.5W	
DIMMING		
Dimming Range	1 -100% of rated output current	
Suitable dimmer	PUSH DIMMING	

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PROTECTIONS

Over Load	Range: 110 ÷ 160%	
	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Over Voltage	13.5 ÷ 19.2V	25.5 ÷ 30.2V
	Type: shut down output voltage. Re-power on to recovery.	
Over Temperature	Range: 110°C ± 10°C	
	Type: shut down output voltage. Re-power on to recovery.	



WORKING ENVIRONMENT

Working Temperature	-20°C ÷ +55°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 EN61000-4-2, 3, 4, 5, 6; EN61000-3-2

OTHERS

Dimensions	326 x 30 x 21.6mm (L x W x H)	
Weight and Packing	0.3kg; 20pcs./box; box dimensions: 34 x 18 x 16.5cm	
EAN Code	 5 902135 152980	 5 902135 152966
MTBF	30 000hr	

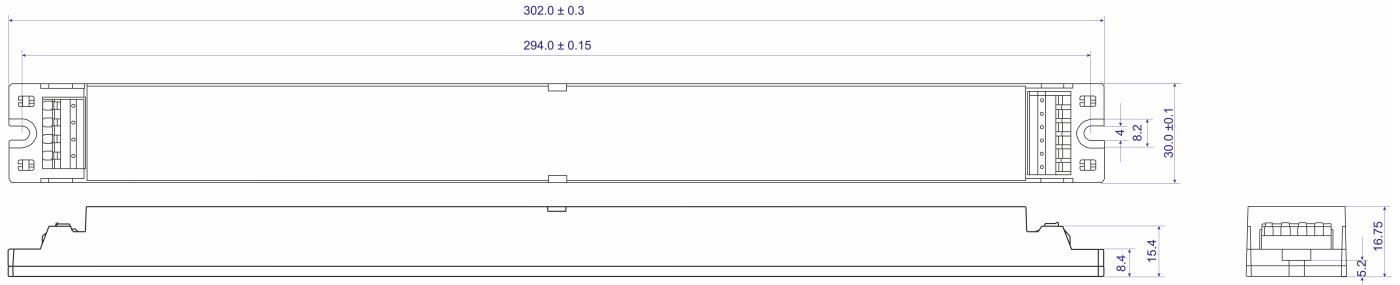
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation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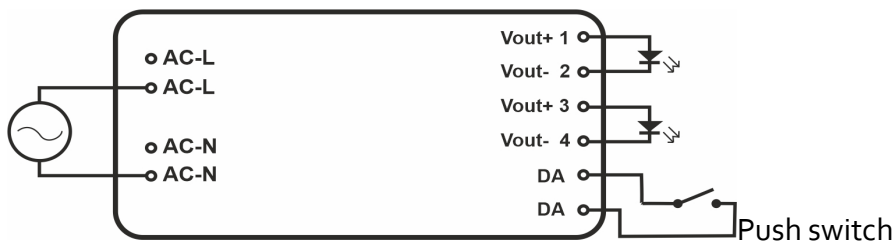
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MECHANICAL SPECIFICATION



SUGGESTED CONNECTION DIAGRAM WITH DIMMER



FUNCTION	Push time
No status change	<0.05 sec.
Push on/off	0.1-1 sec.
Dimming up or down	1.5-10 sec.
Set 100% brightness	>11 sec.

Factory setting 100%

Each time press will change the dimming direction

