

FTPC150V-S-PCT-PDS series

150W LED Dimmable (Push Dimming Secondary) Switching Power Supply



■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current / Over voltage / Over Temperature
- Cooling by free air convection
- Equipped with Push dimming function on secondary side
- Extremely short and slim case size



ELECTRICAL SPECIFICATION

MODEL	FTPC150V24-S-PCT-PDS
OUTPUT	
Rated Voltage	24V
Rated Current	6.25A
Current Range	0 ÷ 6.25A
Rated Power	150W
No Output Voltage (max.)	25.2V
Line Regulation	± 1%
Load Regulation	± 2%
Voltage Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	240mV _{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%
AC current (typ.)	1.0A / 230VAC
Inrush current (max.)	60A / 230VAC(25°C)
No Load Power Consumption (max.)	0.5W
DIMMING	
Dimming Range	1 -100% (PWM style output)
Suitable dimmer	PUSH DIMMING

FTPC150V-S-PCT-PDS series

150W LED Dimmable (Push Dimming Secondary) Switching Power Supply



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 ÷ 18.5V
	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

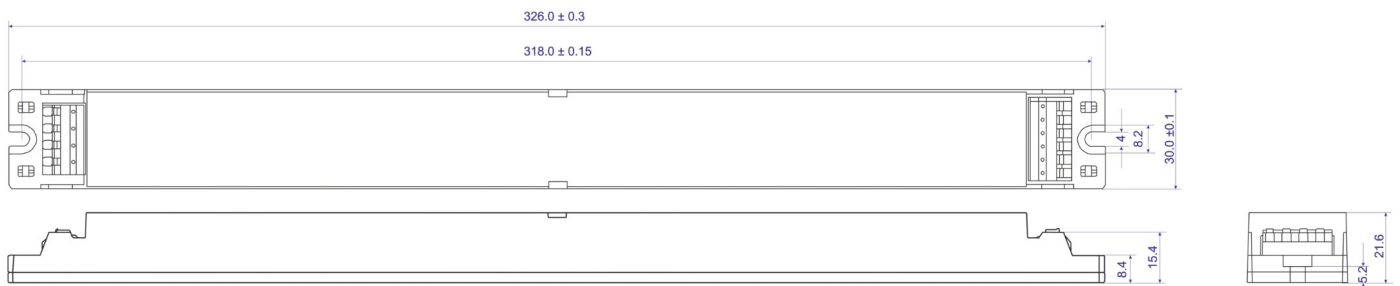
Safety Standards	Compliance to EN61347-1, EN61347-2-13
Withstand Voltage	IN/OUT: 3.75kVAC
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-4-2, 3, 4, 5, 6; EN61000-3-2

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 190213 51135709

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

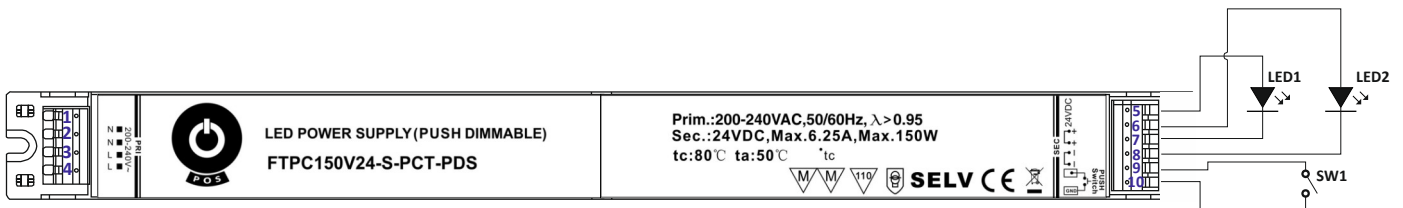


FTPC150V-S-PCT-PDS series

150W LED Dimmable (Push Dimming Secondary) Switching Power Supply



SUGGESTED CONNECTION DIAGRAM WITH DIMMER



PIN Assignment

No.	Assignment	No.	Assignment
1, 2	Input: AC/N	5, 6	Output: $U_{WV} +$
3, 4	Input: AC/L	7, 8	Output: $U_{WV} -$
		9, 10	Push Dimming Secondary Function (SW1 Switch)

Push Dimming Secondary

No.	Push Time	Function
1.	< 0.1 sec	No status change
2.	0.1-1 sec	Output On / Output Off
3.	1.5-10 sec	Dimming up / Dimming down
4.	> 11 sec	100% brightness setting

Remarks:

1. It's allowed to control maximum 8 driver from one switch (SW1) simultaneously.
2. SW1 – monostable (doorbell) switch
3. Factory setting is 100% brightness
4. Duty of PWM output voltage is used for Dimming up / Dimming function.