

# FTPC60V-DA-WP series

60W LED Constant voltage Switching Power Supply, DALI and push dimming, IP67



PRELIMINARY

## ■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
  - Isolation class II
  - Linear shape
- DALI and push dimming function
  - Dimming range: 1-100%
- IP67 Protection level [5]



## Ⓢ ELECTRICAL SPECIFICATION

MODEL	FTPC60V12-DA-WP	FTPC60V24-DA-WP
<b>OUTPUT</b>		
Rated Voltage	12V	24V
Rated Current	5A	2.5A
Rated Power	60W	
No Load Output Voltage (max.)	12.6V	25.2V
Line Regulation	± 1%	
Load Regulation	± 6%	
Voltage Tolerance [3]	± 5%	
Ripple & Noise (max.) [2]	1.50V <sub>p-p</sub>	
Setup, Rise Time [4]	0.6s, 500ms / 230VAC at full load	
Hold up Time (typ.)	1.5ms / 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.)	88%	90%
AC current (typ.)	0.6A / 230VAC	
Inrush current (max.)	50A / 230VAC (25°C)	

<b>DIMMING</b>	
Dimming Range	1 – 100% of rated output current
Suitable dimmers	DALI or PUSH DIMMING

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## PROTECTIONS

<b>Over Current</b>	Range: 110% - 150%
	Type: Hiccup mode auto-recovery.
<b>Short Circuit</b>	Type: Hiccup mode auto-recovery.
<b>Over Voltage</b>	< 15V < 26V
	Type: Hiccup mode auto-recovery.
<b>Over Temperature</b>	Range: 115°C ± 10°C
	Type: shut down output voltage. Re-power on to recovery.

## WORKING ENVIRONMENT

<b>Working Temperature</b>	-40°C ÷ +60°C
<b>Working Humidity</b>	15 ÷ 95% RH non-condensing
<b>Storage Temperature and Humidity</b>	-40°C ÷ +80°C, 10 ÷ 95% RH non-condensing

## SAFETY AND EMC REGULATIONS

<b>Safety Standards</b>	Compliance to EN61347-1, EN61347-2-13
<b>Dali Standards</b>	Compliance to IEC 62386-101, 102,207
<b>Withstand Voltage</b>	IN/OUT: 5.3kVDC
<b>EMC Emission</b>	Compliance to EN55015
<b>EMC Immunity</b>	Compliance to EN61000-4-2, -3, -4, -5, 6, -8, -11, EN55024, EN61547
<b>Harmonic Current</b>	Compliance to EN61000-3-2

## OTHERS

<b>Dimensions</b>	407.6 x 37 x 21.4mm (L x W x H)
<b>Weight and Packing</b>	N/D

**EAN Code**



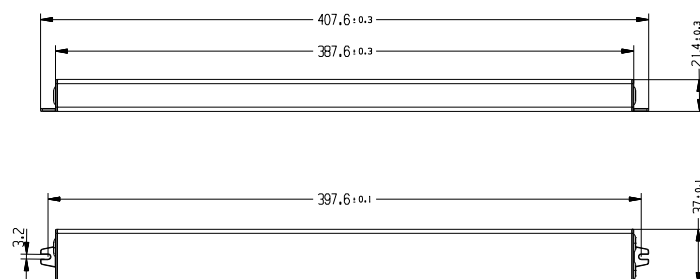
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1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
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. Suitable for indoor or outdoor use. Please avoid direct exposure to sunlight and immersion in water for over 30 minutes.
6. 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



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## © PUSH DIMMING WIRING DIAGRAM



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

## © DALI WIRING DIAGRAM



PIN ASSIGNMENT	
Function	Description
DA	DA signal/ neutral wire
DA	DA signal/ line wire
AC/N	Input: AC/N
AC/L	Input: AC/L
Vout +	Output: U <sub>OUT+</sub>
Vout -	Output: U <sub>OUT-</sub>