

# FTPC60V-DA-WP series

60W LED Constant voltage Switching Power Supply, DALI2 and push dimming, IP67



## ■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Linear shape
- DALI2 and push dimming function
- Dimming range: 1-100%
- IP67 Protection level [5]

IP67 SELV CE

## 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]	120mV <sub>p-p</sub>	240mV <sub>p-p</sub>
Setup Time	600ms / 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.)	88%	90%
AC current (typ.)	0.6A / 230VAC	
Inrush current (max.)	50A / 230VAC (25°C)	

## DIMMING

Dimming Range	1 – 100% of rated output current
Dimming Type	DALI2 or PUSH DIMMING

## WORKING ENVIRONMENT

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

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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.

## 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>	0.6kg; 20pcs./box; box weight and dimension: 14.4kg, 44 x 20 x 21.5cm

**EAN Code**



5190213511342691



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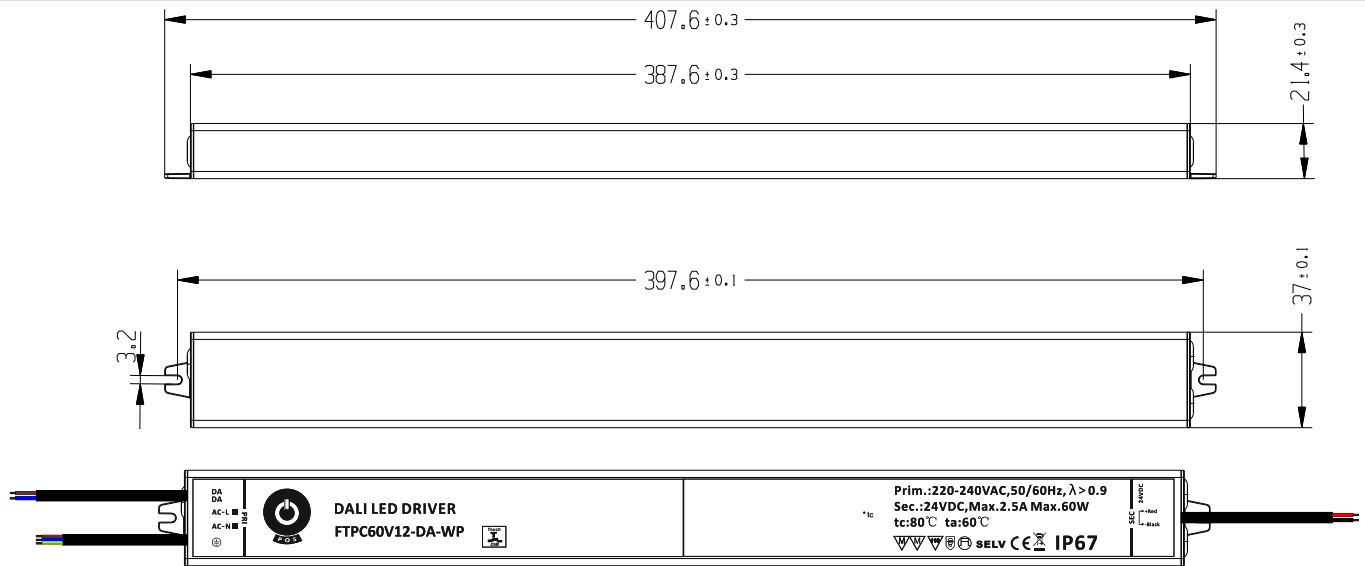
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation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



### DALI :

DA (Brown) / DA (Blue):  
H05RN-F 2\*1.0mm<sup>2</sup> VDE,  
Length: 300 ± 50mm.

### INPUT :

AC-L (Brown) / AC-N (Blue) / AC-PE (Yellow-Green):  
H05RN-F 3\*1.0mm<sup>2</sup> VDE,  
Length: 230 ± 50mm.

### OUTPUT :

+Red / -Black  
SJTW 18AWG\*2C, 2x0.824mm<sup>2</sup>  
Length: 240mm ± 50mm.

## PUSH DIMMING WIRING DIAGRAM



## Push Dimming

No.	Push Time	Function
1.	< 0.05 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:

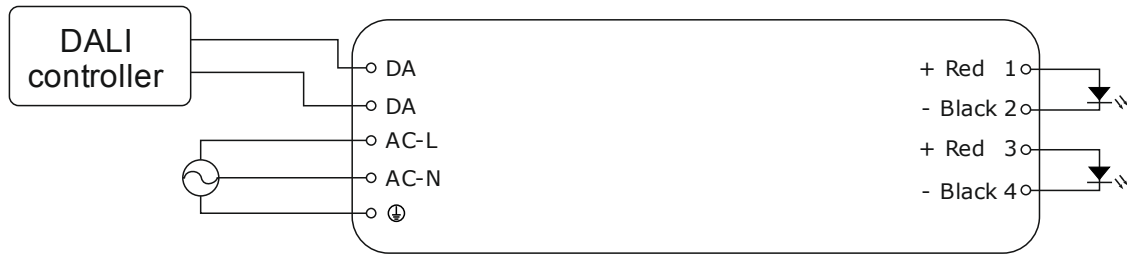
- SW1 – monostable (doorbell) switch
- Factory setting is 100% brightness

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## DALI WIRING DIAGRAM



PIN ASSIGNMENT		
Function	Description DALI	Description Push Dimming
DA	DA signal	Neutral wire
DA	DA signal	Live wire
AC-N		Input: AC-N
AC-L		Input: AC-L
AC-PE		Input: AC-PE
+Red		Output: U <sub>OUT+</sub>
-Black		Output: U <sub>OUT-</sub>