

FTPC150V-DA-WP series

150W LED Constant voltage Switching Power Supply with DALI2 and push dimming, IP67



■ Features:

- Constant voltage design
 - European AC input range
 - Cooling by free air convection
 - Isolation class II
 - Built-in active PFC function
 - Linear shape
 - DALI2 and push dimming function
 - Dimming range: 1-100%
- Protections: Short circuit / Over current / Over voltage / Over temperature

IP67

ELECTRICAL SPECIFICATION

MODEL	FTPC150V12-DA-WP	FTPC150V24-DA-WP
OUTPUT		
Rated Voltage	12V	24V
Rated Current	11A	6.25A
Rated Power	132W	150W
No Load Output Voltage (max.)	12.6V	25.2V
Line Regulation	± 1%	
Load Regulation	± 6%	
Voltage Tolerance [3]	± 5%	
Ripple & Noise (max.) [2]	150mV _{p-p}	300mV _{p-p}
Setup, Rise Time [4]	600ms / 230VAC at full load	
Hold up Time (typ.)	10ms / 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.)	92%	92%
AC current (typ.)	0.75A / 230VAC	0.83A / 230VAC
Inrush current (max.)	50A / 230VAC (25°C)	
DIMMING		
Dimming Range	1 – 100% of rated output current	
Dimming Type	DALI2 or PUSH DIMMING	

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PROTECTIONS

Over Current	Range: 110% - 150%
	Type: Hiccup mode auto-recovery.
Short Circuit	Type: Hiccup mode auto-recovery.
Over Voltage	< 15.0 VDC < 30.0 VDC
	Type: Hiccup mode auto-recovery.
Over Temperature	Range: 115°C ± 10°C
	Type: shut down output voltage. Re-power on to recovery.

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

SAFETY AND EMC REGULATIONS

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

OTHERS

Dimensions	407.6 x 37 x 21.4mm (L x W x H)
Weight and Packing	0.6kg; 20pcs./box; box weight and dimension: 14.4kg, 44 x 20 x 21.5cm

EAN Code



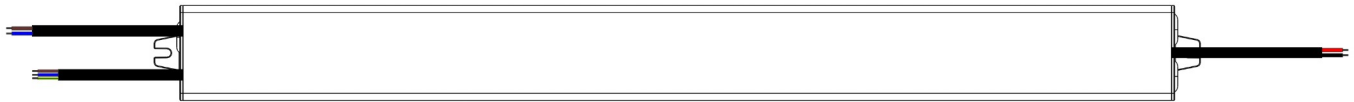
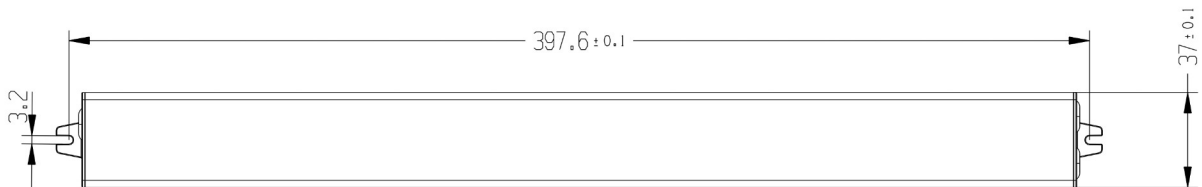
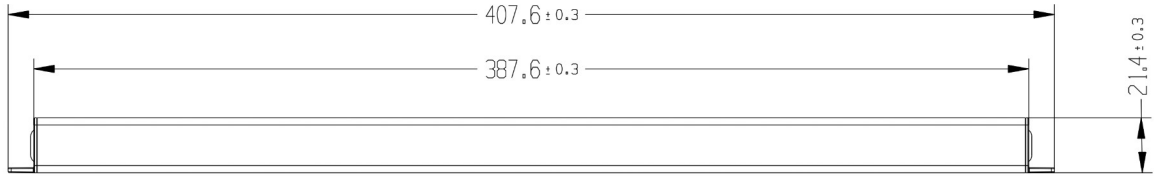
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF / 47µF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation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

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MECHANICAL SPECIFICATION



DALI :

DA (Brown) / DA (Blue) :
H05RN-F 2*1.0mm² VDE,
Length: 300 ± 50mm.

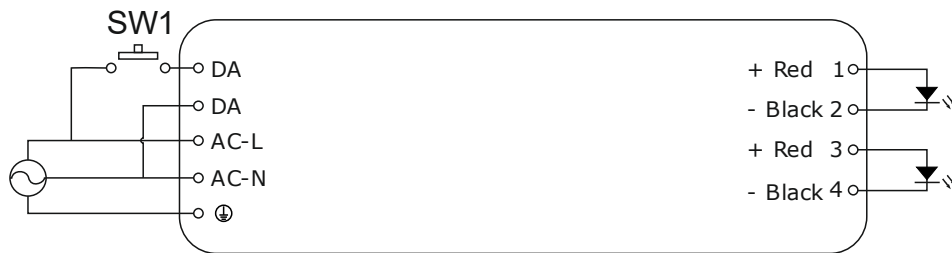
INPUT :

AC-L (Brown) / AC-N (Blue) / AC-PE (Yellow-Green) :
H05RN-F 3*1.0mm² VDE,
Length: 230 ± 50mm.

OUTPUT :

+Red / -Black
SJTW 16AWG*2C, 2x1.31mm²
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:

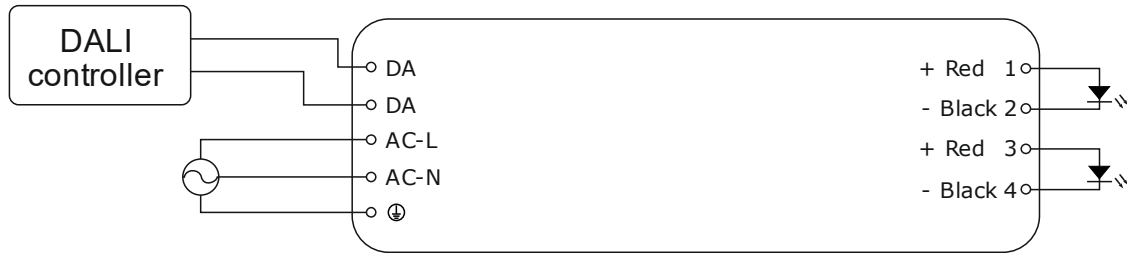
- SW1 – monostable (doorbell) switch
- Factory setting is 100% brightness

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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_{OUT+}
-Black		Output: U_{OUT-}