FTPC100V-DA-WP series

100W LED Constant voltage Switching Power Supply, DALI 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
- Isolation class II
- Built-in active PFC function
- Linear shape
- DALI and push dimming function
- Dimming range: 1-100%

◎ELECTRICAL SPECIFICATION

MODEL	FTPC100V12-DA-WP	FTPC100V24-DA-WP
OUTPUT		
Rated Voltage	12V	24V
Rated Current	8.33A	4.16A
Rated Power	100W	
No Load Output Voltage (max.)	12.6V	25.2V
Line Regulation	± 1%	
Load Regulation	± 6%	
Voltage Tolerance [3]	± 5%	
Ripple & Noise (max.) [2]	$1.50V_{P-P}$	
Setup, Rise Time [4]	1s, 500ms / 230VAC at full load	
Hold up Time (typ.)	1.5ms / 230VAC at full load	
INPUT		
Voltage Range	220 ÷ 240VAC	
Frequency Range	47 ÷ 63Hz	
Power Factor (typ.)	PF > 0.9 / 230VAC at full load	
Efficiency (typ.)	92%	
AC current (typ.)	0.6A / 230VAC	
Inrush current (max.)	50A / 230VAC (25°C)	
DIMMING		
Dimming Range	1 – 100% of rated output current	
Suitable dimmers	DALI or PUSH DIMMING	
PROTECTIONS		
Over Current	Range: 110% - 150%	
	Type: Hiccup mode auto-recovery.	
Short Circuit	Type: Hiccup mode auto-recovery.	
Over Voltage	< 15V	< 26V
	Type: Hiccup mode auto-recovery.	
Over Temperature	Range: 115°C ± 10°C	
	Type: Decrease output current. Recovers automatically after fault condition is removed.	

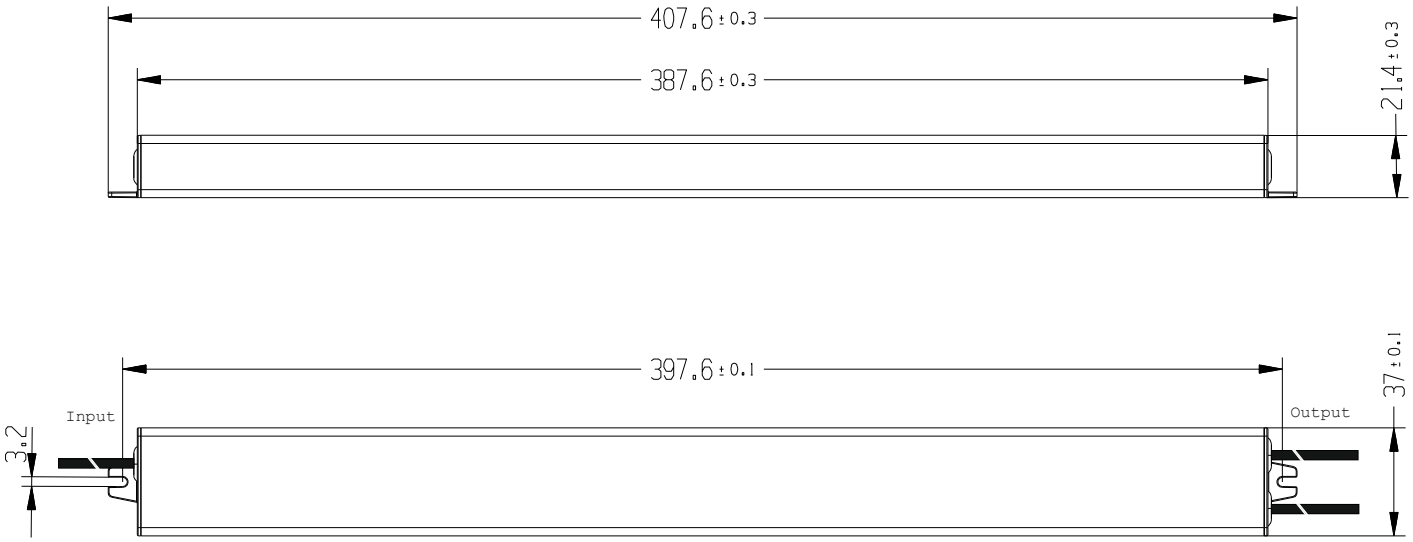
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WORKING ENVIRONMENT	
Working Temperature	-40°C ÷ +60°C
Working Humidity	15 ÷ 95% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ +80°C, 10 ÷ 95% RH non-condensing
SAFETY AND EMC REGULATIONS	
Safety Standards	Compliance to EN61347-1, EN61347-2-13
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, EN6154
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./ctn, ctn dimensions: 44 x 20 x 21.5 cm
EAN Code	5902135133149 / 5902135133156

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



Input cables dimension: H05RN-F 3*1.0mm2 VDE
Output cables dimension: SJTW 18AWG*2C, **Length:** 300mm

◎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_{OUT}+
Vout -	Output: U_{OUT}-