DALI LEO DRIVER



100W LED Constant voltage Switching Power Supply, DALI2 and push dimming

■ 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	FTPC100V24-DA
OUTPUT		
Rated Voltage	12V	24V
Rated Current	8.33A	4.17A
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%	92%
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

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PROTECTIONS			
	Range: 110% - 150%		
Over Current	Type: Hiccup mode auto-recove	ry.	
Short Circuit	Type: Hiccup mode auto-recove	Type: Hiccup mode auto-recovery.	
	< 15V	< 26V	
Over Voltage	Type: Hiccup mode auto-recove	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	-20°C ÷ +45°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 EN61547	
Harmonic Current	Compliance to EN61000-3-2, EN61000-3-3	

OTHERS		
Dimensions	361,5 x 30 x 21.3mm (L x W x H)	
Weight and Packing	0.15kg; 20pcs./ctn, ctn dimensions: 38 x 18 x 16.5 cm	
EAN Code	5 902135 133132	5 90 2 1 3 5 1 3 2 9 1 3

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 °C of ambient temperature.
- $2. \textit{ Ripple \& noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 \mu F i 47 \mu F parallel capacitor.}$
- 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.

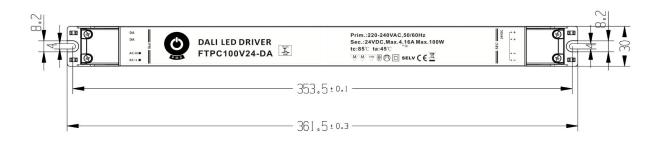
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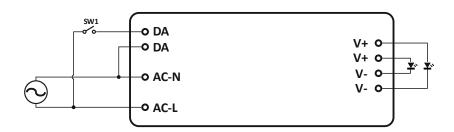
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MECHANICAL SPECIFICATION





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	Each time press cause change the dimming direction Dimming up / Dimming down	
4.	> 11 sec	100% brightness setting	

Remarks:

- 1. SW1 monostable (doorbell) switch
- 2. Factory setting is 100% brithness

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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	
Vout +	Output: U _{ouт} +	
Vout -	Output: U _{оит} -	

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