

12W DALI + PUSH Dimming power supply



Approve



Features

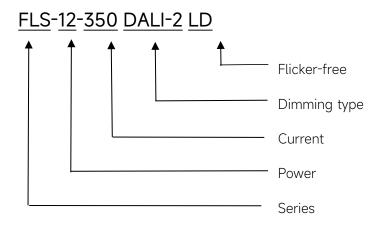
- Class II, SELV, Built-in/Independent (With side caps)
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.9C
- Efficiency: 82%
- Support DALI-2, Push Dimming
- 5 years warranty

Applications

LED panel、Spot light、Down light

FLS-12-350 DALI2 LD is a 12W constant current LED driver with 120 to 350mA output current and a forward voltage range from 9 to 42Vdc. The output current is adjustable by DIP Switch. With it's dimensions from 119 \times 40 \times 21.5 mm. It is easy to integrate in LED strips, LED panel, spot and down light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code



Stock code: 002922





♦ Specification

	Constant Current (mA)	120	150	180	200	250	280	300	350
Output	Voltage Range (VDC)				9-	42		i	å
	Unload voltage Max.	57VDC	57VDC						
	Current Accuracy	±7% ±5%							
	Output LF current ripple(≤120Hz)	±5%							
	SVM	≤0.4							
	P _{st}	≤1							
	Efficiency(Typ.)	82%@Full Load,230VAC							
	Rated input voltage	e 220-240VAC							
	Range of input voltage	198-264VAC							
	Rated input voltage(DC)	198-280VDC							
	Frequency(Hz)	0/50/60 Hz							
	Displacement factor	≥0.7							
la a de	Power Factor	>0.9@Fu	ll Load,23	0VAC					
Input	Input Current	0.12A							
	Start-up time	< 0.7S							
	No Load Power	≤0.5W							
	Standby Power	≤0.5W							
	Network standby power	≤0.5W							
	THD (Typ.)	<10%@Full Load,230VAC							
	Dimming	YES							
Dimension	Dimming mode	DALI-2 (IEC 62386-101,102,207) & Push Dimming (Corridor Function)					n)		
Dimming	Dimming depth	1%							
	Dimming current range	1 ~100%							
	O I and Duckarting	103-120%							
	Over Load Protection	YES/Latch off							
Duntantina	O Vallana Danta d'an	> 57VDC							
Protection	Over Voltage Protection	YES/Latch off							
	Short circuit Protection	YES/Latch off							
	Over Temperature Protection	YES/Auto Resume							
	Operating Temperature	-20°C~+45°C							
	Humidity	20%-90%	20%-90%RH						
Environment	Tc	80°C							
	Storage Temperature	-25°C~+60°C							
	Lifetime	>50000h,@Tc=65°C							
Surface	Dimension	85X40X2	.1.5mm(Wi	th side ca	ps :119X4()X21.5mm))		
standards	EN 61347-1; EN61347-2-13; EN62	384: EN5	5015: EN6	1000-3-2	: EN6100)0-3-3: F	N 61547:		

Stock code: 002922 2/9



FLS-12-350 DALI-2 LD

Others	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	2.Ripple & Noise are measured at 20MH capacitor. 3.Data are typical values obtained from the second seco	d are measured at 230VAC input , full load and 25°C of ambient temperature. z of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel test samples. Ided to connect between this product output and luminaries.

♦ Parameter

Number	Output	Switch position				
Number	Current(mA)	1	2	3		
1	120					
2	150	ON				
3	180		ON			
4	200	ON	ON			
5	250			ON		
6	280	ON		ON		
7	300		ON	ON		
*8	350	ON	ON	ON		

^{*} Factory default

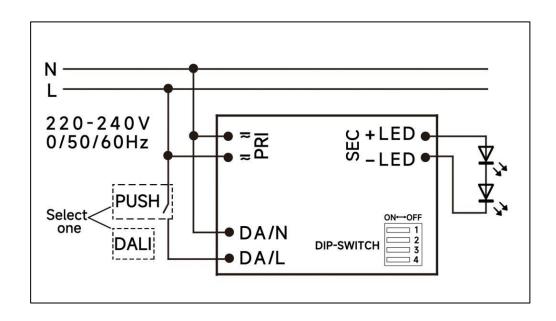
♦ Circuit Breaker

I peak	Twidth	B10	B16	B20	C10	C16	C20
3.3A	41.2 µ s	66pcs	106pcs	133pcs	66pcs	106pcs	133pcs

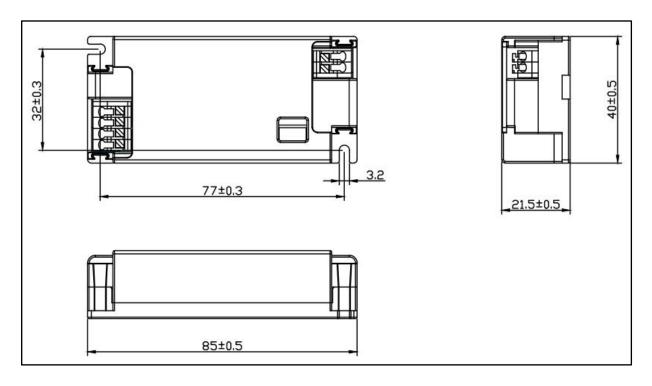
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♦ Wiring diagram



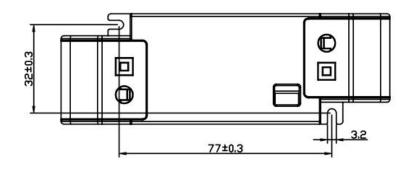
♦ 2D diagram

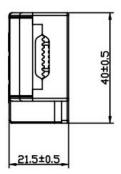


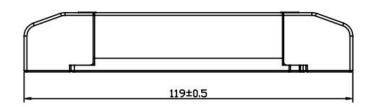
Stock code: 002922 4/9



With side caps









coding:1320212042

♦ Wiring & Connections

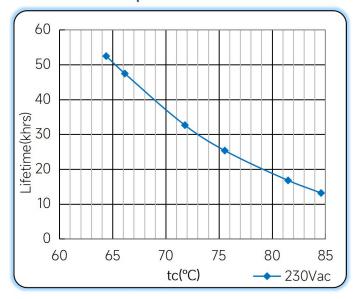
	Specification item	Value (Unit)	
Input	Input wire cross-section	0.51.5 mm ²	
	Input wire gauge.	1620 AWG	
	Input wire strip length	89mm	
Output	Output wire cross-section	0.51.5 mm ²	
	Output wire gauge.	1620 AWG	
	Output wire strip length	89mm	

Stock code: 002922 5/9

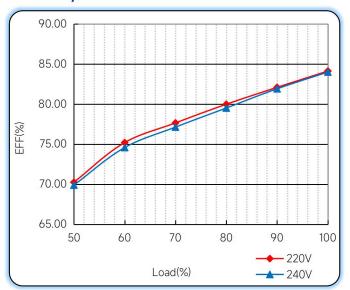


◆ Curve for FLS-12-350 DALI-2 LD, Io=350mA

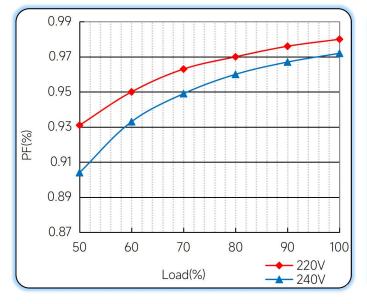
Lifetime vs. Temperature Curve



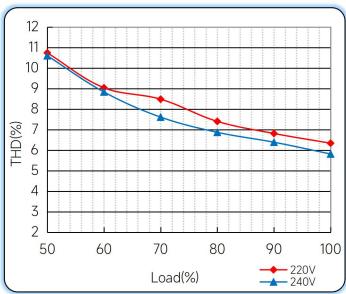
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load



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♦ Push dimming operation

Action	Action duration	Function		
Short push	<0.5s	Turn on/off		
Short push	<0.5s	LED on: Save current brightness level		
twice	<0.55	LED off: Delete saved level and turn on at 100% brightness		
Short push five	~7 ₋	Ouit Consider reads		
times	<3s	Quit Corridor mode		
Long push	0.5-14s	Dimming up or down		
Long push	15s-2mins	Sync all LEDs to be 100% brightness		
		Enter Corridor mode - LED keep 100% brightness for 2mins.		
Long push	>2mins	Then brightness will turn to be 10% within 32s if no action during 2mins		
		100% brightness.		

Note:

1. The factory default brightness is at 100%.

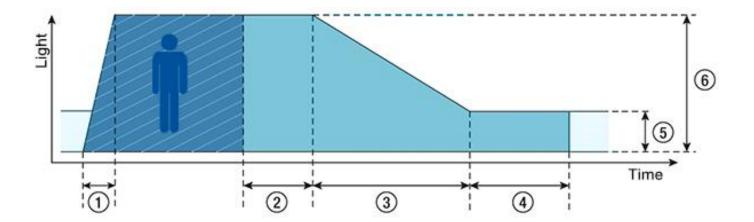
2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button

3. The maximum length of the cable from the push button to the last driver is 200 meters.

Stock code: 002922 7/9



◆ Corridor mode

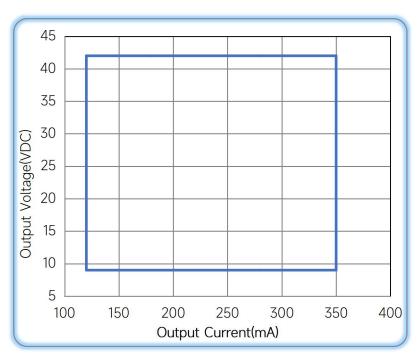


- ◆ ①Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- ②Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person is detected again during the run-on time the run-on time is restarted from zero. If no presence is detected during the run-on time the fade time is started as soon as the run-on time expires.
- ◆ ③Fade time(32s): the time during which the luminous intensity is faded from the presence value to the absence value.
- **@Switch-off delay (Never Off):** the time during which the absence value is held before the lighting is switched off. Depending on the profile selected the switch-off delay may have different values or may not be defined.
- ◆ ⑤Absence value(default: 10 %): the luminous intensity when there is no person present.
- ©Presence value (default: 100 %): the luminous intensity when persons are present.

Stock code: 002922 8/9



♦ Operating window



Operating window 100%

♦ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2022/02/15
Start-up time	0.5\$	0.7S	В	2022/08/12
2D diagram		Added	С	2023/06/02

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Manual

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