

8W DALI + PUSH Dimming power supply





Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.95C
- Efficiency: 78%
- Support DALI-2, Push Dimming
- 5 years warranty
- IP20

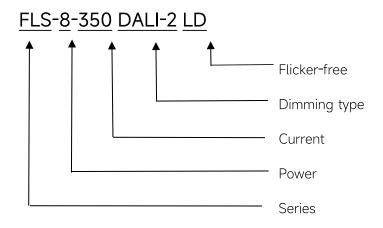
Applications

LED panel、Spot light、Down light

♦ Description

FLS-8-350 DALI-2 LD is an 8W constant current LED driver with 120 to 350mA output current and a forward voltage range from 5 to 42Vdc. The output current is adjustable by DIP Switch. With it's dimensions from 142 \times 30 \times 20 mm it is easy to integrate in 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

Output	Constant Current (mA)	120	150	180	200	250	280	300	350	
	Voltage Range (VDC)	5-42		5-	32	5-27	5-24			
	Unload voltage Max.	57VDC					Å			
	Current Accuracy	±7%			±6%					
	Output LF current ripple(≤120Hz)	±5%								
	SVM	≤0.4								
	P _{st}	ৰ								
	Efficiency(Typ.)	78%@Full load								
	Rated input voltage	220-240VAC								
	Range of input voltage	198-264VAC								
	Range input voltage(DC)	198-280VDC								
	Frequency(Hz)	0/50/60 Hz								
	Displacement factor	>0.5								
la a d	Power Factor	0.95C@F	ull load,2	30VAC						
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								
	Dimming	YES								
Dimming	Dimming mode	DALI-2 (IEC 62386-101,102,207) & Push Dimming (Corridor Function)								
Dirining	Dimming depth	1%								
	Dimming current range	1 ~100%								
	Over Load Protection	103-1209	6							
	Over Load Frotection	YES/Latch off								
Protection	Over Voltage Protection	> 57VDC	•							
Trotection	Over voltage i rotection	YES/Latch off								
	Short circuit Protection	YES/Latch off								
	Over Temperature Protection	YES/Auto Resume								
	Operating Temperature	-20°C~+45°C								
	Humidity	20%-90%RH								
Environment	Тс	80°C								
	Storage Temperature	-25°C~+60°C								
	Lifetime	>50000h,@Tc=70°C								
Surface	Dimension	142 x 30 x 20 (LXWXH)mm								
standards	EN 61347-1; EN61347-2-13; EN62	384. FNF	5015: ENI	1000-7-2	· ENIA10	∩∩- ス- ス・ ⊑	NI 61517.			

Stock code: 002922



FLS-8-350 DALI-2 LD

Others	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	' '	d are measured at 230VAC input , full load and 25°C of ambient temperature. Iz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel

Parameter

Number	Output	Switch position				
	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

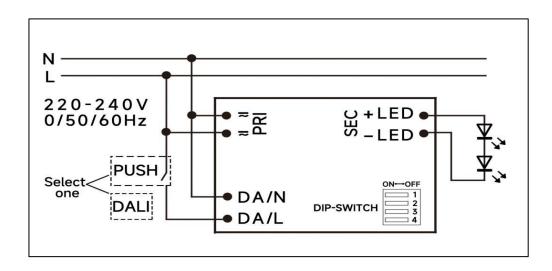
♦ Circuit Breaker

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
2.34A	38.4 μs	66pcs	106pcs	133pcs	66pcs	106pcs	133pcs

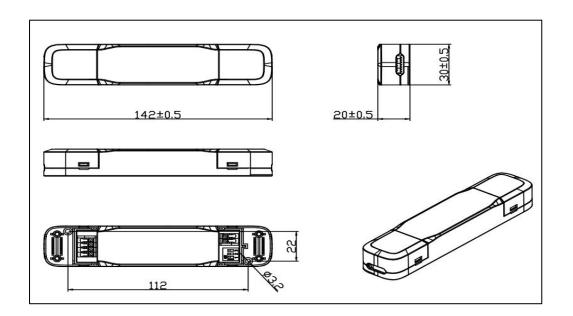
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♦ Wiring diagram



♦ 2D diagram



♦ Wiring & Connections

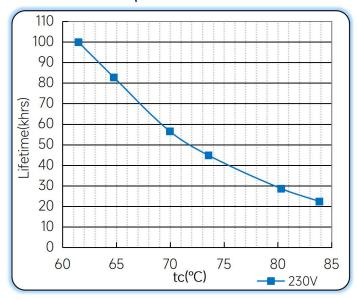
	Specification item	Value (Unit)	
	Input wire cross-section	0.51.5 mm2	
Input	Input wire gauge.	1620 AWG	
	Input wire strip length	89mm	
Output	Output wire cross-section	0.51.5 mm2	
	Output wire gauge.	1620 AWG	
	Output wire strip length	89mm	

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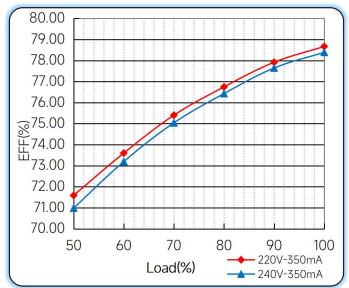


◆ Curve for FLS-8-350 DALI-2 LD, Io=350mA

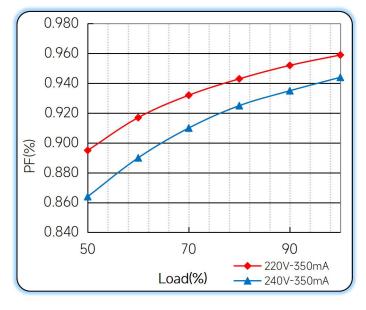
Lifetime vs. Temperature Curve



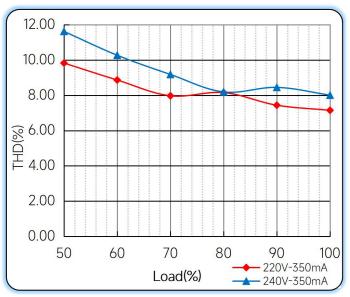
Efficiency vs. Load



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	40 F-	LED on: Save current brightness level	
twice	<0.5s	LED off: Delete saved level and turn on at 100% brightness	
Short push five	47		
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:

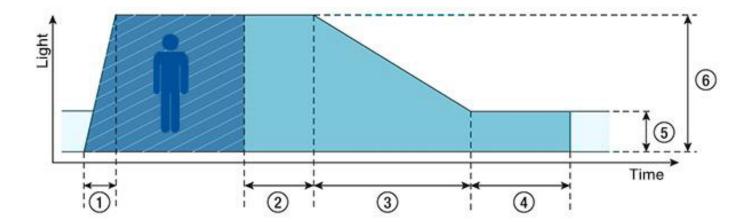
1. The factory default brightness is at 100%.

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.



◆ Corridor mode

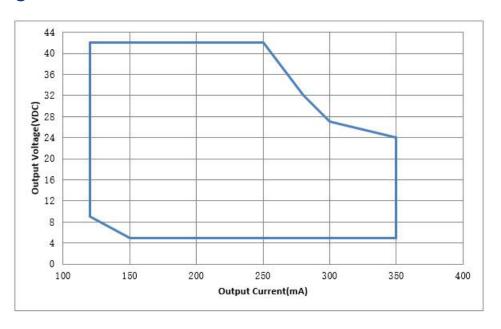


- ◆ ①Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- ②Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person 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.

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♦ Operating window



Operating window 100%

Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2022/02/15
Start-up time	0.6S	0.7S	А	2022/08/12

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