

8W DALI + PUSH Dimming power supply



Approve





Features

- For luminaries of protection Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.95
- Efficiency: 83%
- Support DALI-2, Push Dimming
- 5 years warranty
- IP20

Applications

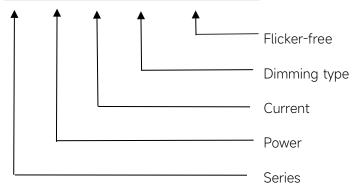
LED panel、Spot light、Down light

♦ Description

FLS-8-350 DALI-2 LD EXC is an 8W constant current LED driver with 80 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 $126 \times 30 \times 20.5$ 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

FLS-8-350 DALI-2 LD EXC



Stock code: 002922





♦ Specification

Output	Constant Current (mA)	80	100	150	180	200	250	300	350		
	Voltage Range (VDC)	9-42		i	9-40	9-32	9-27	9-24			
	Unload voltage Max.	59VDC									
	Current Accuracy	±7% ±5%									
	Output LF current ripple(≤120Hz)	±5%									
	SVM	≤0.4									
	P _{st}	≤ 1									
	Efficiency(Typ.)	83%@200mA,Full load,230VAC									
	EOFI	85%									
	Rated input voltage	220-240	V								
Input	Range of input voltage	198-264VAC									
	Maximum voltage	300VAC@1 h maximum,unit might not operate in this abnormal condition									
	Range input voltage(DC)	176-280	VDC								
	Frequency(Hz)	0/50/60 Hz									
	Displacement factor	≥0.5									
	Power Factor	0.95@Full load,230VAC									
	Input Current	0.065A									
	Start-up time	<0.8S									
	No Load Power	<0.5W									
	Standby Power	≤0.5W									
	Network standby power	<0.5W									
	THD (Typ.)	<10%@Full load									
	Dimming	YES									
	Dimming mode	DALI-2 (IEC 62386-101,102,207,251,252,253)									
Dimming	Diffilling mode	&Push Dimming (Corridor Function)									
	Dimming depth	3.5mA@≤300mA;1%@350mA									
	Dimming current range	1 ~100%									
	Over Load Protection	103-120%									
		YES/Auto Resume									
Protection	Over Voltage Protection	>59VDC									
1100000011	Over voltage r rotection	YES/Auto Resume									
	Short circuit Protection	YES/Auto Resume									
	Over Temperature Protection	YES/Auto Resume									
capability	Surge capability (L-N)	1KV									
Сарабінту	Surge capability (L/N-Ground)	NA									
	Operating Temperature	-20°C~+45°C									
Environment	Humidity	20%-90%RH									
	Тс	75℃									

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FLS-8-350 DALI-2 LD EXC

	Storage Temperature	-25°C~+60°C			
	Lifetime	>50000h,@Tc=70℃			
	Noise	≤25dB(A)@20cm			
Surface	Dimension	126 x 30 x 20.5 (LXWXH)mm			
Surrace	material	PC			
	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;AS/NZS 61347- 1, AS/NZS 61347-2- 13;AS 61347.2.13;EN62384;			
Standards	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN55015, EN61000-3-2, EN61000-3-3, EN61547,EN			
	ErP	Erp2.0 EU 2019/2020			
	RoHS	RoHS (2011/65/EU) (EU)2015/863			
	1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature.				
Note	 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. 3.DALI protocol comprises 16 groups and 64 addresses.Up to 32 drivers can perform the PUSH dimming at the same time when utilizing one push button. 4.EL compatible with IEC 61347-2-13 Annex J, compatible with EN 60598-2-22 emergency lighting fixtures, compatible with EN 50172 				
	central battery system applications. 5.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered. 6.All Eaglerise power supply are complied with EMI regulations. Since they are belong to component and will be installed inside system				
	enclosure. When they are integrated into a system, the EMI characteristics of the system must be re-verified again.				

♦ Parameter

		Out	tput			Switch position	
Number	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3
1	80mA	9-42		3.36			
2	100mA			4.2	ON		
3	150mA			6.3		ON	
4	180mA			7.56	ON	ON	
5	200mA	9-40	59VDC	8			ON
6	250mA	9-32		8	ON		ON
7	300mA	9-27		8.1		ON	ON
*8	350mA	9-24		8.4	ON	ON	ON

^{*} Factory default

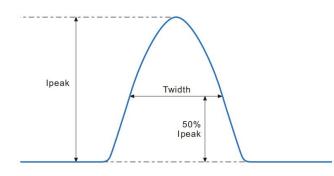
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♦ Inrush Current

I ^{peak}	Twidth	B10	B16	B20	C10	C16	C20
2.04A	45.6μ s	123pcs	196pcs	246pcs	123pcs	196pcs	246pcs



Remarks:

1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

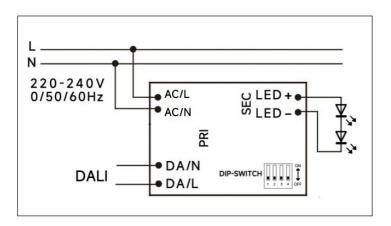
2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

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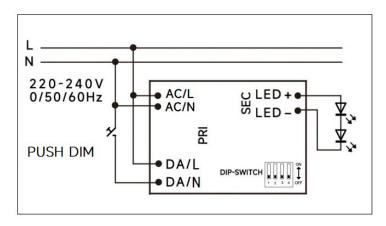
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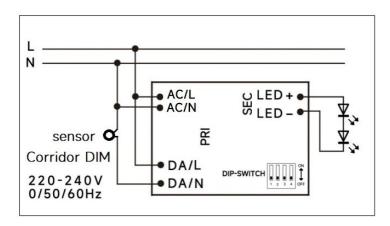
♦ Wiring diagram



DALI dimming application



PushDIM dimming application

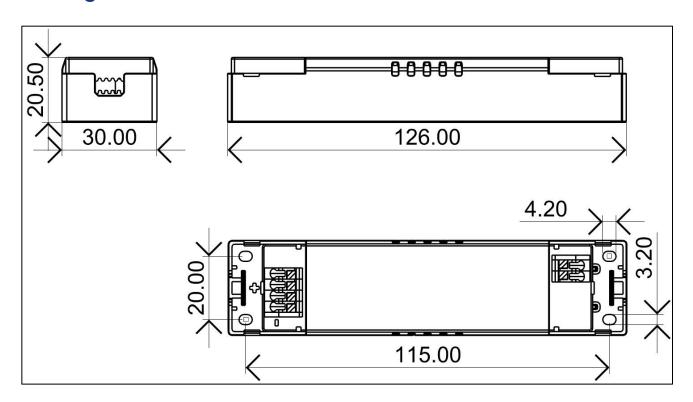


Corridor DIM dimming application

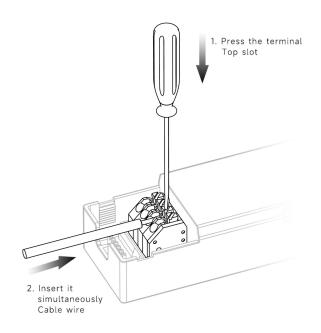
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♦ 2D diagram



Terminal



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♦ 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 wire cross-section	0.51.5 mm2
Output	Output wire gauge.	1620 AWG
	Output wire strip length	89mm

Note:Solid wire is risky to use on an angled terminal.Stranded wire is recommended for this kind of use.

♦ Packaging

Model	Product	Product Outer carton		Quantity/carton	Net	Gross
Model	Dimensions(mm)	weight/piece	dimension(mm)	Quantity/carton	weight/carton(Kg)	weight/carton(Kg)
FLS-8-350						
DALI-2 LD	126X30X20.5	0.0575	370X275X215mm	150	8.625	9.246
EXC						

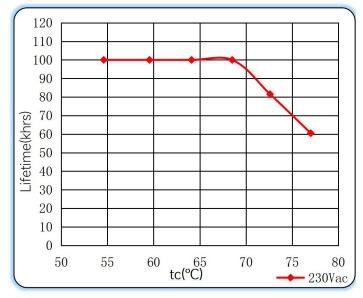
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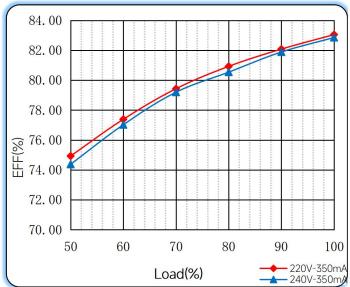


◆ Curve for FLS-8-350 DALI-2 LD EXC, lo=350mA

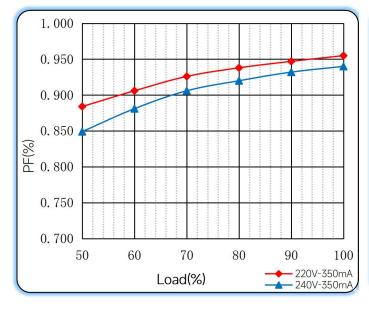
Lifetime vs. Temperature Curve



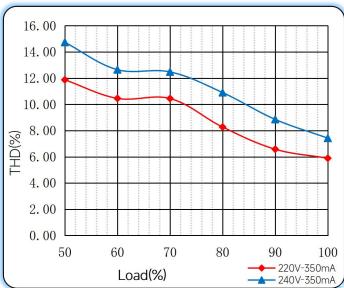
Efficiency vs. Load



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%.

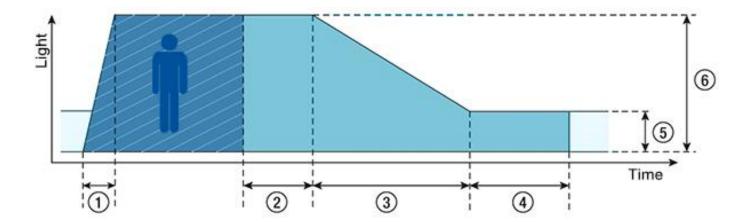
2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button

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

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◆ Corridor mode

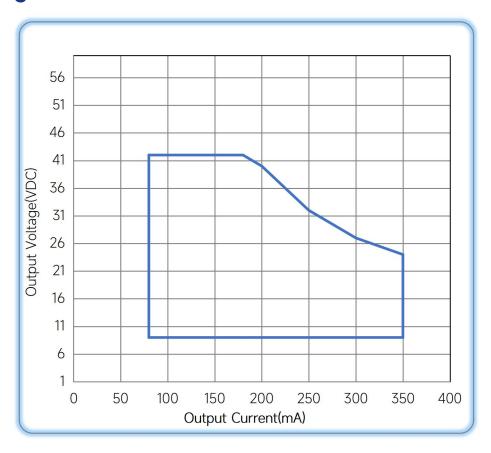


- ◆ ①Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- ②Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person 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.
- SAbsence 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	2024/02/23

Remark:The final interpretation of the contents of the specification belongs to Eaglerise Electric & Electronic (China) Co., Ltd.

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