

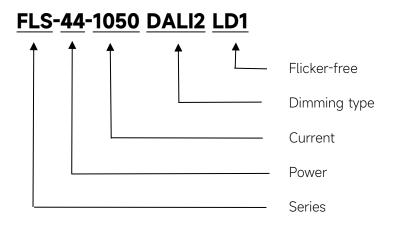
44W DALI+PUSH Dimming power supply



Description

FLS-44-1050 DALI2 LD1 is a 44W constant current LED driver with 700 to 1050mA output current and a forward voltage range from 9 to 52Vdc. The output current is adjustable by DIP Switch. With it's dimensions from 97 x 43 x 30mm. 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





Specification

	Constant Current (mA)	700	750	800	850	900	950	1000	1050	
Output	Voltage Range (VDC)		9-52		9-	49	9-46	9-44	9-42	
	Unload voltage Max.	60VDC								
	Current Accuracy	±5%								
	Output HF current ripple(≥1KHz)	±10%								
	Output LF current ripple(<120Hz)	±3%								
	SVM	≤0.4								
	P _{st}	<1								
	Efficiency(Typ.)	87%@Full load,230V								
	Rated input voltage 220-240VAC									
	Range of input voltage	198-264VAC								
	Rated input voltage(DC)	198-280VDC								
	Frequency(Hz)	0/50/60 Hz								
	Displacement factor	≥0.9								
Input	Power Factor	>0.95@Full load,230V								
	Input Current	0.34A								
	Start-up time	< 0.7S								
	No Load Power	<0.5₩								
	Standby Power	≤0.5W								
	THD (Typ.)	<10%@Full Load,230VAC								
	Dimming	YES								
Dimming	Dimming mode	DALI-2 (IEC 62386-101,102,207) & Push Dimming (Corridor Function)								
Dimming	Dimming depth	1%								
	Dimming current range	1 ~100%					ming (Corridor Function)			
	Over Load Protection	103-120%								
		YES/Latch off								
Protection	Over Veltage Dretestion	> 60VDC								
FIOLECLION	Over Voltage Protection	YES/Latch off								
	Short circuit Protection	YES/Latc	YES/Latch off							
	Over Temperature Protection	YES/Auto Resume								
	Operating Temperature	-20°C~+50°C								
	Humidity	20%-90%RH								
Environment	Тс	90°C								
	Storage Temperature	-25°C~+60°C								
	Lifetime	>50000h,@Tc=75°C								
Surface	Dimension	97X43X3	0mm (Wit	h side cap	s :131X43X	30mm)				



Standards	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN61347- 1, EN61347-2- 13, EN62384;GB/T17743;EN61547 GB 19510.1,GB 19510.14;GB/T 17743,GB 17625.1;EN IEC 55015,EN IEC 61000-3-2,EN 61000-3-3				
Others	ErP	EU 2019/2020			
Others	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.				
	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.				
Note	3.Data are typical values obtained from test samples.				
	4.Switch and dimmer are not recommended to connect between this product output and luminaries.				

Parameter

Number	Output	Switch position				
	Current(mA)	1	2	3		
1	700					
2	750	ON				
3	800		ON			
4	850	ON	ON			
5	900			ON		
6	950	ON		ON		
7	1000		ON	ON		
*8	1050	ON	ON	ON		

* Factory default

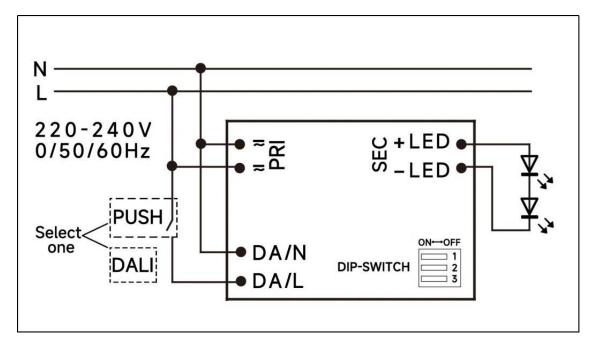
Circuit Breaker

Ipeak	Twidth	B10	B16	B20	C10	C16	C20	
6.8A	47.8μ s	23pcs	37pcs	47pcs	23pcs	37pcs	47pcs	

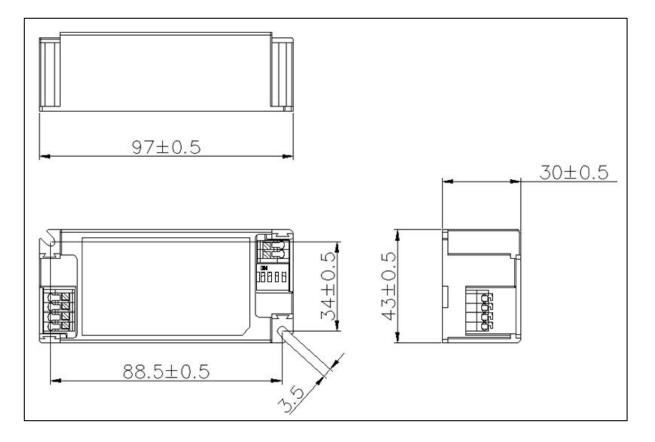


FLS-44-1050 DALI2 LD1

• Wiring diagram



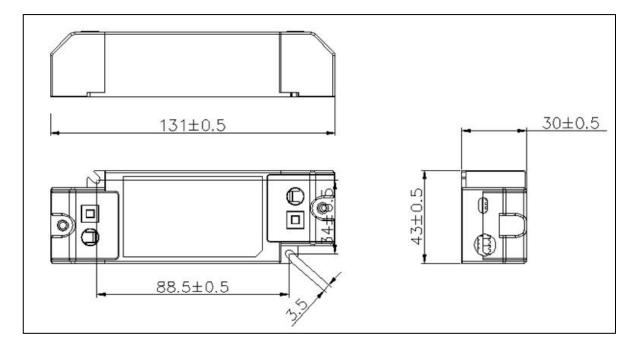
♦ 2D diagram





FLS-44-1050 DALI2 LD1

With side caps





coding:1320211709

Wiring & Connections

	Specification item	Value (Unit)
	Input wire cross-section	0.51.5 mm ²
Input	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
Output	Output wire cross-section	0.51.5 mm ²
	Output wire gauge.	1620 AWG
	Output wire strip length	79mm



Curve for FLS-44-1050 DALI-2 LD1, lo=1050mA

Lifetime vs. Temperature Curve

Efficiency vs. Load

89.00

88.00

87.00

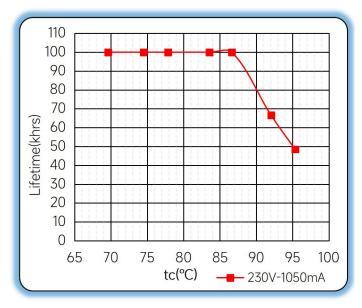
84.00

83.00

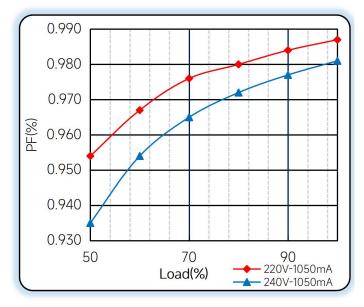
82.00

50

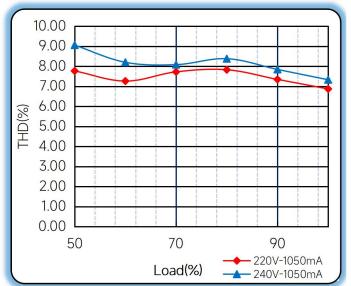
60



Power Factor Characteristics



THD vs. Load



70

Load(%)

80

90

- 220V-1050mA

240V-1050mA

100



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	<0 Fa			
times	<0.5s	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:

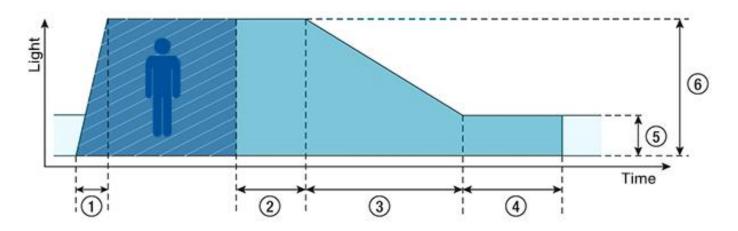
1. The factory default brightness is at 100%.

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

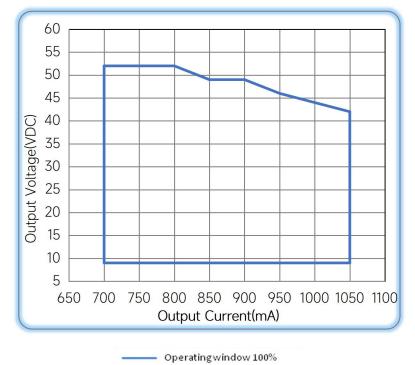


- Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person 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.
- Fade 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.
- Absence value(default: 10 %): the luminous intensity when there is no person present.
- Presence value (default: 100 %): the luminous intensity when persons are present.



FLS-44-1050 DALI2 LD1

Operating window



Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2022-02-15
Start-up time	0.5S	0.7S	А	2022/08/12

Tel: (86 757) 8252 3552, 8625 6816 Fax: (86 757) 8626 9260, 8625 6780 E-mail: sales@eaglerise.com Website : https://lighting.eaglerise.com/index.aspx





Manual