

44W ECO DALI + PUSH Dimming power supply















Features

- For luminaries of protection Class I, II, SELV, built-in/independent (With side caps)
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.97
- Efficiency: 89%
- Support DALI-2, Push Dimming
- 5 years warranty

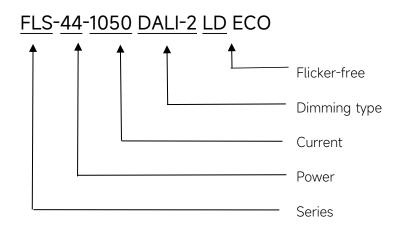
Applications

LED panel、Spot light、Down light

Description

FLS-44-1050 DALI-2 LD ECO is a 44W constant current LED driver with 700 to 1050mA output current and a forward voltage range from 24 to 42VDC. The output current is adjustable by DIP Switch. With it's dimensions from 97 x 43 x 30 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



1 / 10 Stock code: 002922



FLS-44-1050 DALI-2 LD ECO

♦ Specification

	Constant Current (mA)	700	750	800	850	900	950	1000	1050
Output	Voltage Range	24-42VDC							.i
	Unload voltage Max.	59VDC	59VDC						
	Current Accuracy	±7%							
	Output HF current ripple(>1KHz)	±5%							
	Output LF current ripple(≤120Hz)	±3%							
	SVM	≤0.01@Full Load							
	P _{st}	<0.05@Full Load							
	Efficiency(Typ.)	89%@Full Load,230VAC							
	Rated input voltage	220-240	VAC						
	Range of input voltage 198-264VAC								
	Rated input voltage(DC)	198-280\	/DC						
	Frequency(Hz)	0/50/60	Hz						
	Displacement factor	≥0.9							
Laure de	Power Factor	>0.97@F	ull Load,2	30VAC					
Input	Input Current	0.25A m	ax.						
	Start-up time	< 0.5S	< 0.5S						
	No Load Power	<0.5W							
	Standby Power	≤0.5W							
	Network standby power	≤0.5W							
	THD (Typ.)	6%@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 Dratastics	103-120%							
	Over Load Protection	YES/Latch off							
Dustastian	O V-lh D t t	>59VDC							
Protection	Over Voltage Protection	YES/Latch off							
	Short circuit Protection	YES/Latch off							
	Over Temperature Protection	YES/Auto Resume							
	Operating Temperature	-20°C~+50°C							
	Humidity	20%-90%RH							
Environment	Tc	90℃							
	Storage Temperature	-40°C~+80°C							
	Lifetime	>50000h,@Tc=90℃							
Surface	Dimension	97X43X3	0mm (W	ith side ca	ps :131X4	3X30mm)			

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FLS-44-1050 DALI-2 LD ECO

standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547;				
Others	ErP	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.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.				
	4.Data are typical values obtained from test samples.				
	5.Switch and dimmer are not recommended to connect between this product output and luminaries.				

♦ Parameter

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

^{*} Factory default

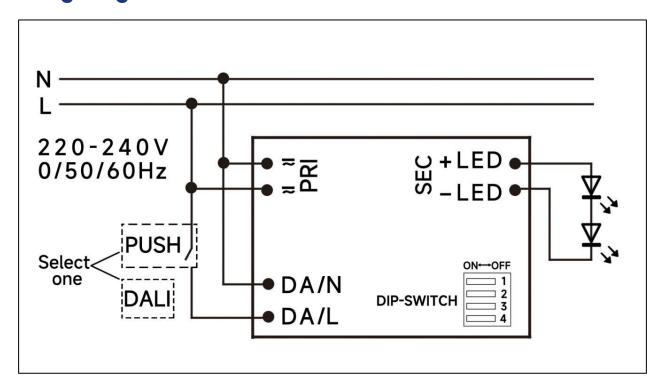
♦ Circuit Breaker

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
8.84A	37.42μ s	22pcs	32pcs	38pcs	27pcs	41pcs	47pcs

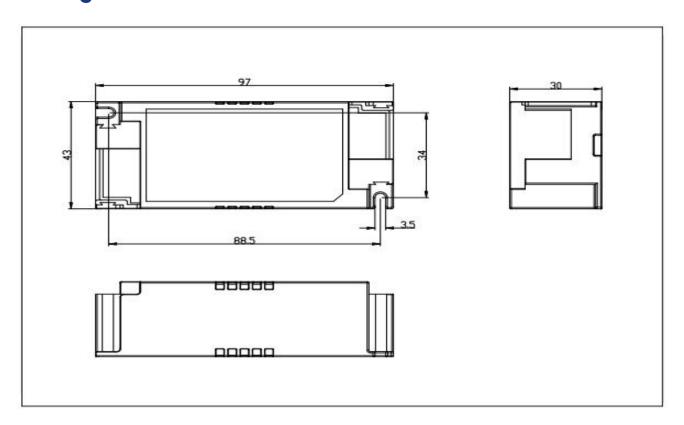
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♦ Wiring diagram



♦ 2D diagram

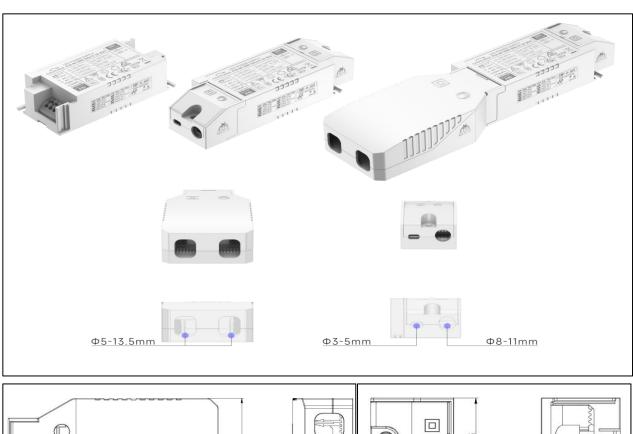


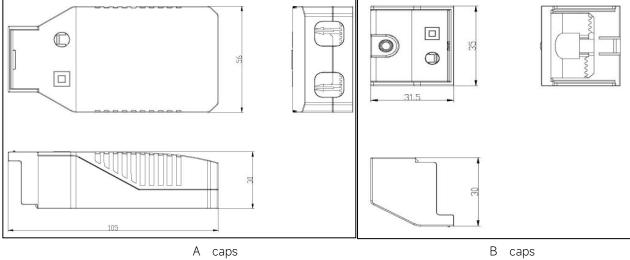
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With side caps









Top end caps coding: 132021T0079-1 Bottom end caps coding: 132021T0033 Strain relief coding: 132038T0046 Terminal coding: 126016T0009



Top end caps coding:132021T0080-1 Bottom end caps coding: 132021T0035

♦ Wiring & Connections

Specification item		Value (Unit)			
	Input wire cross-section	0.51.5 mm ² (With A side caps: 0.752.5 mm ²)			
Input	Input wire gauge.	1620 AWG (With A side caps: 1420 AWG)			
	Input wire strip length	79mm			
	Output wire cross-section	0.51.5 mm ²			
Output	Output wire gauge.	1620 AWG			
	Output wire strip length	79mm			

Common ways of wire clamping:

- 1. Tighten the screws to secure the side cover or clips, to clamp the cables
- 2. Through the main shell and side cover side teeth to clamp the cables

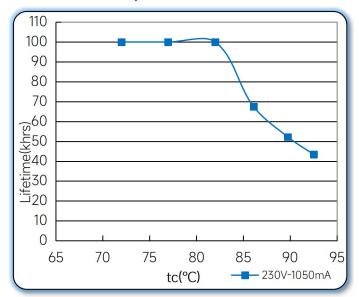
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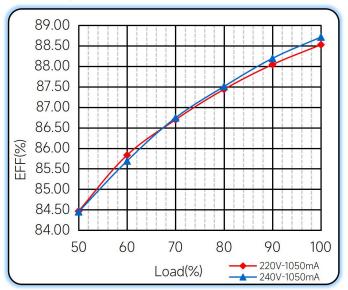


◆ Curve for FLS-44-1050 DALI-2 LD ECO, lo=1050mA

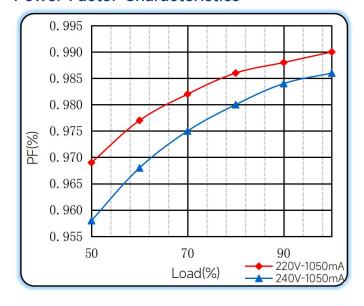
Lifetime vs. Temperature Curve



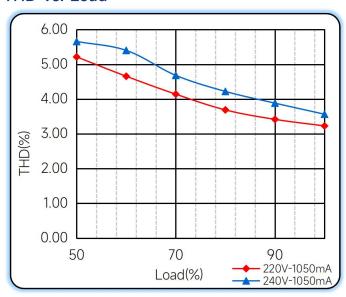
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load



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FLS-44-1050 DALI-2 LD ECO



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%.

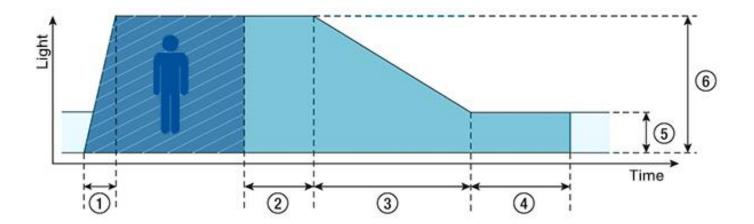
2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button

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

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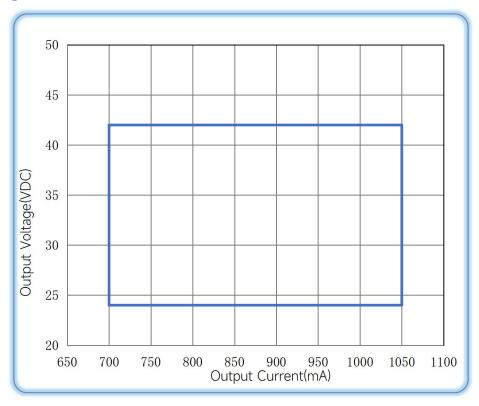
◆ Corridor mode



- ◆ 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.
- ◆ ⑤Absence value(default: 10 %): the luminous intensity when there is no person present.
- ©Presence value (default: 100 %): the luminous intensity when persons are present.



♦ Operating window



Operating window 100%

♦ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2022/02/15

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Manual

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