

44W DALI + PUSH Dimming power supply



Features

- Class II, SELV, Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor: > 0.95@Full load,230V
- Efficiency: 86%@Full load,230V
- 2 Slots
- 5 years warranty
- Support DALI-2, Push Dimming

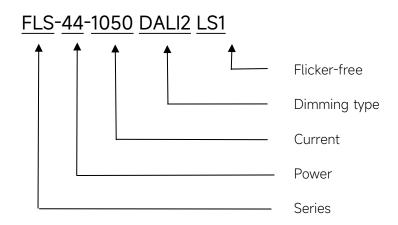
Applications

LED panel,down light

♦ Description

FLS-44-1050 DALI2 LS1 is a 44W constant current, 2 slots 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 180 \times 80 \times 30mm. It is easy to integrate in LED Panel 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)	700	750	800	850	900	950	1000	1050		
	Voltage Range (VDC)		9-52		9-49		9-46	9-44	9-42		
	Unload voltage Max.	60VDC									
Output	Current Accuracy	±5%									
	Output HF current ripple(≥1KHz)	±10%									
	Output LF current ripple(<120Hz)	±3%									
	SVM	≤0.4									
	P _{st}	€1									
	Efficiency(Typ.)	86%@Full load,230V									
	Rated input voltage	220-240\	/AC								
	Range of input voltage	ge 198-264VAC									
	Rated input voltage(DC)	198-280VDC									
	Frequency(Hz)	0/50/60 Hz									
	Displacement factor	>0.9									
	Power Factor	>0.95@Full load,230V									
Input	Input Current	0.34A									
	Start-up time	< 0.6S									
	No Load Power	≤0.5W									
	Standby Power	≤0.5W									
	Network standby power	<0.5W									
	THD (Typ.)	<10%									
	Dimming	YES									
Diameter	Dimming mode	DALI-2 (IEC 62386-101,102,207) & Push Dimming (Corridor Function)									
Dimming	Dimming depth	1%									
	Dimming current range	1 ~100%									
	O and and Darkarian	103-120%									
	Over Load Protection	YES/Latch off									
D		>60VDC									
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%	20%-90%RH								
Environment	Тс	85℃									
	Storage Temperature	-25℃~+60℃									
	Lifetime	>50000h,@Tc=80°C									
Surface	Dimension	180x80x30mm									

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FLS-44-1050 DALI2 LS1

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				
O+1	ErP	EU 2019/2020			
Others	RoHS	RoHS (2011/65/EU) (EU)2015/863			
Note	2.Ripple & Noise are meas	ally mentioned are measured at 230VAC input , full load and 25°C of ambient temperature. ured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. duct is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.			

♦ 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

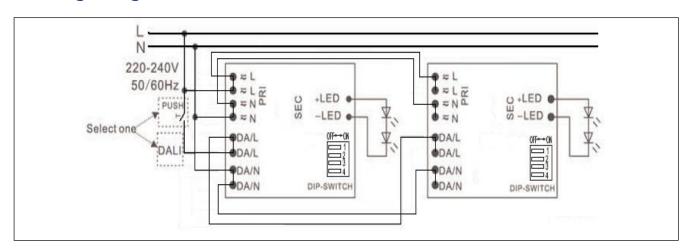
♦ Circuit Breaker

I ^{peak}	Twidth	B10	B16	B20	C10	C16	C20
8.68A	35.6μ s	23pcs	37pcs	47pcs	23pcs	37pcs	47pcs

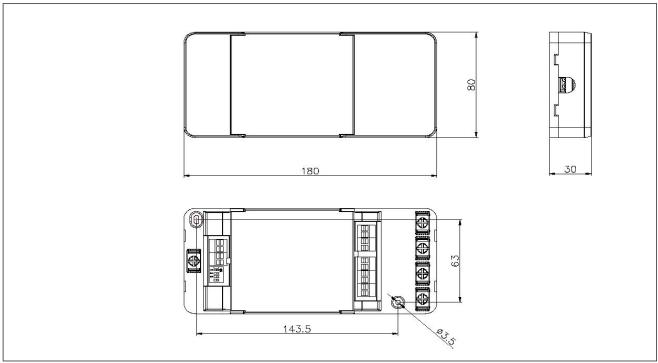
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♦ Wiring diagram



♦ 2D diagram



♦ Wiring & Connections

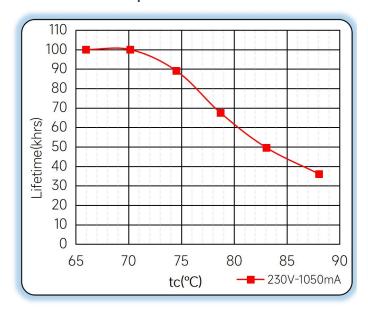
	Specification item	Value (Unit)
	Input wire cross-section	0.51.5 mm ²
Input	Input wire gauge	1620 AWG
	Input wire strip length	89mm
Output	Output wire cross-section	0.51.5 mm ²
	Output wire gauge	1620 AWG
	Output wire strip length	89mm

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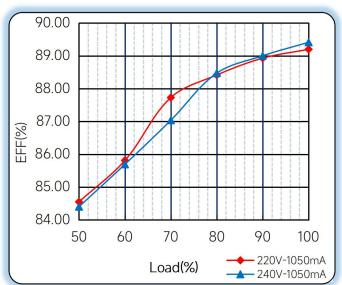


◆ Curve for FLS-44-1050 DALI2 LS1, lo=1050mA

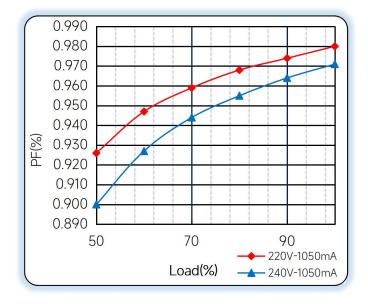
Lifetime vs. Temperature Curve



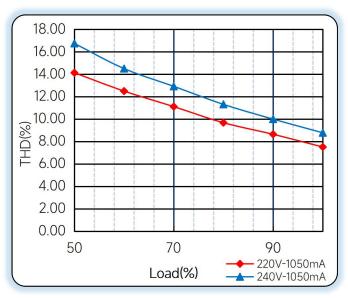
Efficiency vs. Load



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 ₋	Quit Corridor mode		
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%.

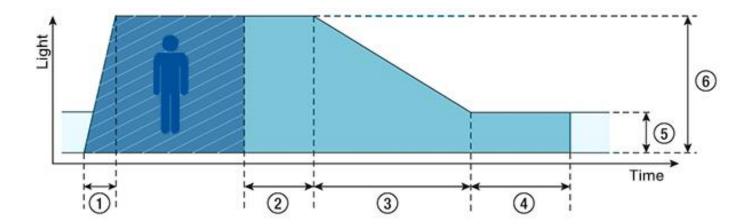
2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button

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

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♦ Corridor mode

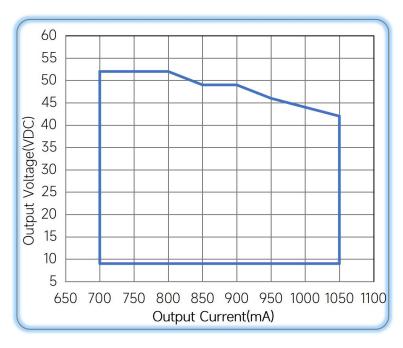


- ◆ ①Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- ②Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person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

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♦ Operating window



Operating window 100%

♦ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2022/05/04

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Manual

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