

RISE

FAGI

√+7 (499) 647-80-74
 ∑ zakaz@citi-el.ru
 www.citi-el.ru

FLS-40-1050 DALI-2 LA1

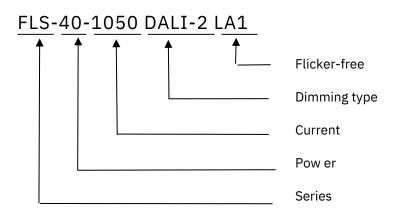
40W DALI+PUSH Dimming power supply



Description

FLS-40-1050 DALI-2 LA1 is a 40W 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 187 x 45 x 30.5mm 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





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			
Output	Unload voltage Max.	6 OVDC							
	Current Accuracy	±5%							
•	Output HF current ripple(≥1KHz)	±10%							
	Output LF current ripple(≤120Hz)	±3%							
	SVM	≤0.4							
	Pst	≤1							
	Efficiency(Typ.)	87%@Full load							
	Rated input voltage	220-240	VAC						
	Range of input voltage	198-264VAC							
	Range input voltage(DC)	198-280	VDC						
	Frequency(Hz)	0/50/60 Hz							
	Displacement factor	≥0.9							
Input	Power Factor	>0.95@Full load							
Input	Input Current	0.34A							
	Start-up time	<0.75							
	No Load Power	≤0.5W							
	Standby Power	≤0.5W							
	Network standby power	≤0.5W							
	THD (Typ.)	<10%@Full load							
	D imming	YES DALI-2(IEC 62386-101,102,207)& Push Dimming (Corridor Function)							
D imming	Dimming mode	DALI-2(IEC 6238	6-101,10	2,207)&	Push Dim	ming (Corri	idor Functi	on)
0	Dimming depth	1%							
	Dimming current range	1~100%							
	Over Load Protection	103-120%							
		YES/Latch off							
Protection	Over Voltage Protection	>6 0VD C							
		YES/Latch off							
	Short circuit Protection	YES/Latch off							
	Over Temperature Protection	YES/Auto Resume							
	Operating Temperature	- 20°C~+4 5℃							
	Humidity	20%-90%RH							
Environment	Тс	75℃							
	Storage Temperature	-25°C~+60°C							
	Lifetime	>50000h,@Tc=75°C							
Surface	Dimension	187X45X	(30.5(LXW	XH)mm					



s tandards	EN 61347- EN61347-2-13; EN62384; EN55015; EN61000-3-2; EN61000-3-3; EN 61547;				
Others	1; ErP	EU 2019/2020			
	RoHS	RoHS (2011/65/EU) (EU)2015/863			
Note	 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. 				

Parameter

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

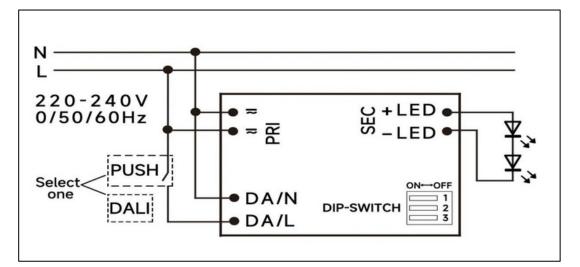
* Factory default

Circuit Breaker

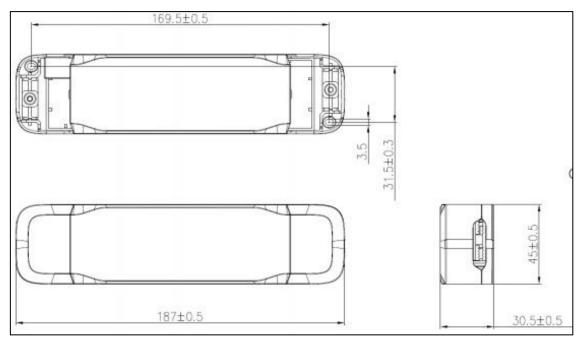
Ipeak	Tw idth	B10	B16	B20	C10	C16	C20
5.76A	62.4 µ s	23pcs	37pcs	47pcs	23pcs	37pcs	47pc
L					***************************************		S



Wiring diagram



2D diagram



Wiring & Connections

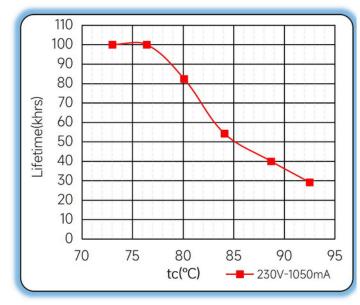
	Specification item	Value (Unit)	
	Input wire cross-section	0.51.5 mm2	
Input	Input wire gauge.	1620 AWG	
	Input wire strip length	89mm	
Output	Output wire cross-section	0.51.5 mm2	
	Output wire gauge.	1620 AWG	
	Output wire strip length	89mm	



Curve for FLS-40-1050 DALI-2 LA1, Io=1050mA

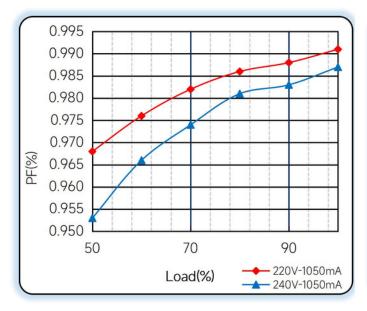
Lifetime vs. Temperature Curve

Efficiency vs. Load

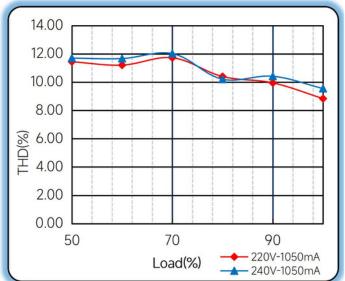




Power Factor Characteristics



THD vs. Load





Push dimming operation

Action	Action duration	Function
Short push	<0.5s	Turn on/off
Short push twice	<0.5s	LED on:Save current brightness level LED off: Delete saved level and turn on at 100% brightness
Short push five times	<0.5s	Quit Corridor mode
Long push	0.5-14s	Dimming up or down
Long push	15s-2mins	Syncall LED stobe 100% brightness
Long push	>2mins	Enter Corridor mode - LED keep 100% brightness for 2mins. Then brightness will turn to be10% within 32s if no action during 2mins 100% brightness.

Note:

1. The factory default brightness is at 100%.

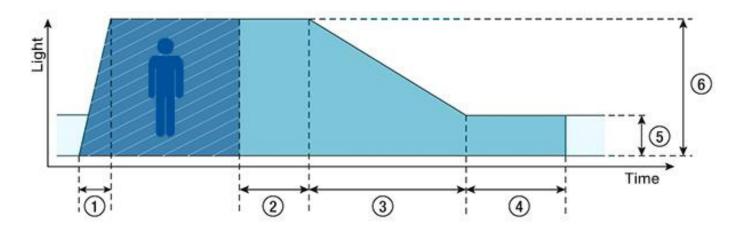
2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push

button.

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



Corridor mode

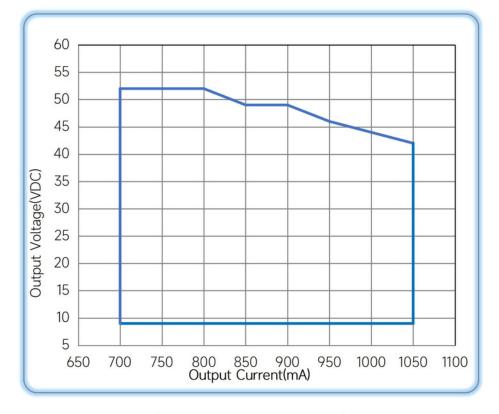


- Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person 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-40-1050 DALI-2 LA1

Operating window



Operating window 100%

Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2022/05/04
Start-up time	0.6S	0.7S	А	2022/08/12



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