

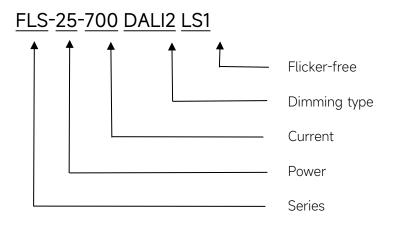
25W DALI + PUSH Dimming power supply



Description

FLS-25-700 DALI2 LS1 is a 25W constant current, 2 slots LED driver with 150 to 700mA 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 x 80 x 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





Specification

Output	Constant Current (mA)	150mA	200mA		700mA	
	Voltage Range (VDC)	9-52V	9-52V		9-37.5V	
	Unload voltage Max.	60VDC				
	Current Accuracy	±7%@150-350mA; ±5%@400-700mA;				
ouput	Output HF current ripple(≥1KHz)	±10%				
	Output LF current ripple(≤120Hz)	±3%				
	SVM	≤0.4				
	P _{st}	<۱				
	Efficiency(Typ.)	84%@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				
المربية الم	Power Factor	>0.95@Full loa	d,230V			
Input	Input Current	0.2A				
	Start-up time	< 0.5S				
	No Load Power	≤0.5W				
	Standby Power	≤0.5W				
	Network standby power	≤0.5W				
	THD (Typ.)	<10%				
	Dimming	YES				
Dimming	Dimming mode	DALI-2 (IEC 6	2386-101,102,207)&	& Push Dimming (Corric	lor Function)	
Dimining	Dimming depth	1%				
	Dimming current range	1 ~100%				
	Over Load Protection	103-120%				
		YES/Latch off				
Protection	Over Voltage Protection	> 60VDC				
FIOLECTION		YES/Latch off				
	Short circuit Protection	YES/Latch off				
	Over Temperature Protection	YES/Auto Resume				
	Operating Temperature	-20°C~+45°C				
	Humidity	20%-90%RH				
Environment	Тс	75°C				
	Storage Temperature	-25°C~+60°C				
	Lifetime	>50000h,@Tc=75°C				
Surface	Dimension	180x80x30mm				



Ctandarda	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN61347- 1, EN61347-2- 13, EN62384;GB/T17743;EN61547			
Standards	GB 19510.1,GB 19510.14;GB/T 17743,GB 17625.1;EN IEC 55015,EN IEC 61000-3-2,EN 61000-3-3			
	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.			
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.			

Parameter

Number	Output	Switch position				
NULLIDEI	Current(mA)	1	2	3	4	
1	150			ON		
2	200	ON		ON		
3	250		ON	ON		
4	300	ON	ON	ON		
5	350				ON	
6	400	ON			ON	
7	450		ON		ON	
8	500	ON	ON		ON	
9	550			ON	ON	
10	600	ON		ON	ON	
11	650		ON	ON	ON	
*12	700	ON	ON	ON	ON	

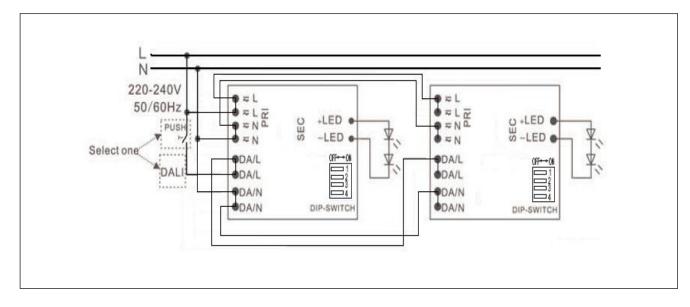
* Factory default

Circuit Breaker

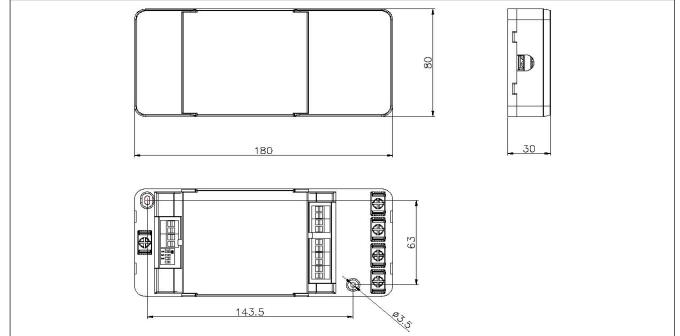
I ^{peak}	Twidth	B10	B16	B20	C10	C16	C20
5.6A	34.78μ s	40pcs	64pcs	80pcs	40pcs	64pcs	80pcs



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 wire cross-section	0.51.5 mm ²
Output	Output wire gauge	1620 AWG
	Output wire strip length	89mm



Curve for FLS-25-700 DALI2 LS1, lo=700mA

Lifetime vs. Temperature Curve

Efficiency vs. Load

88.00

87.00

86.00

85.00

82.00

81.00

80.00

79.00

50

60

70

Load(%)

80

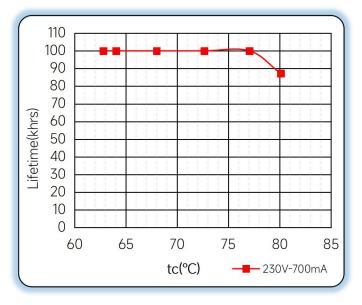
90

220V-700mA

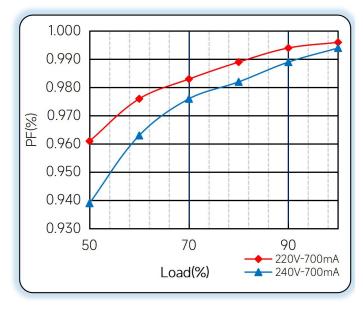
240V-700mA

100

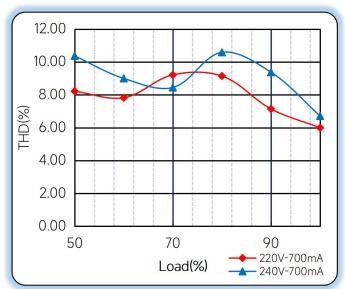
⊗ 84.00当 83.00



Power Factor Characteristics



THD vs. Load





Push dimming operation

Action	Action duration	Function		
Short push	<0.5s	Turn on/off		
Short push		LED on: Save current brightness level		
twice	<0.5s	LED off: Delete saved level and turn on at 100% brightness		
Short push five	.7.			
<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:

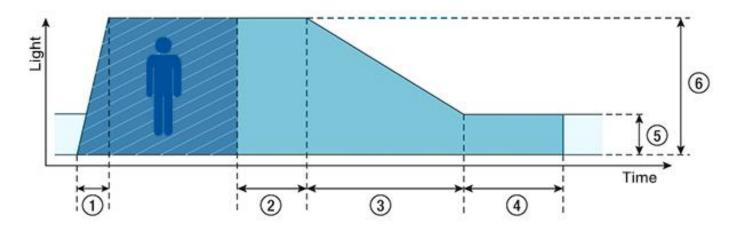
1. The factory default brightness is at 100%.

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.



Corridor mode

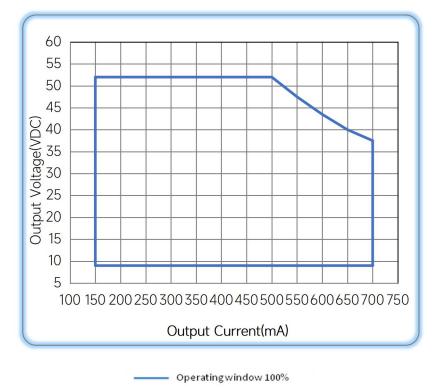


- ①Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- ②Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person 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.
- **④Switch-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.
- **OPresence value (default: 100 %):** the luminous intensity when persons are present.



FLS-25-700 DALI2 LS1

Operating window



Revision Updates

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

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Manual

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