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Citi-el
LED up your business

FLS-25-700 DALI-2 LA1

25W DALI+PUSH Dimming power supply

C E 05 SELV

DALI 2 EL CCC CB

Features

Class II，SELV，independent
Input Voltage 220-240VAC
Protections: SCP/OLP/OVP/OTP
Power Factor ＞0.95
Efficiency：85%
Support DALI-2, Push Dimming
5 years warranty

Applications

LED panel,
Spot light, Down light

Description

FLS-25-700 DALI-2 LA1 is a 25W constant current 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 160x 42 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

FLS-25-700 DALI-2 LA1

- Flicker-free & Dip-switch
- Dimming type
- Current
- Pow er
- Series
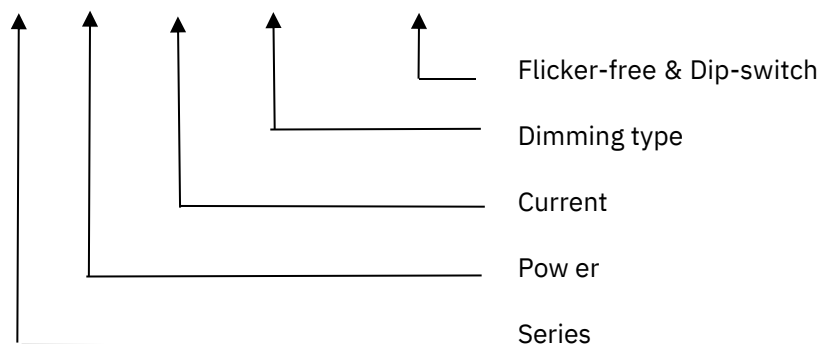
Specification

Output	Constant Current （mA）	150mA	200mA	...	700mA
	Voltage Range （VDC）	9-52V 9-52V 9-37.5V			
	Unload voltage Max.	6 0VD C			
	Current Accuracy	±7%@150-350mA；±5%@400-700mA；			
	Output HF current ripple(≥1KHz)	±10%			
	Output LF current ripple(≤120Hz)	±3%			
	SVM	≤0.4			
	Pst	≤1			
	Efficiency(Typ.)	85%			
Input	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			
	Power Factor	>0.95			
	Input Current	0.2A			
	Start-up time	＜0.7S			
	No Load Power	≤0.5W			
	Standby Power	≤0.5W			
	Network standby power	≤0.5W			
	THD (Typ.)	<10%			
D imming	D imming	YES			
	Dimming mode	DALI-2 （IEC 62386-101,102,207） & Push Dimming (Corridor Function)			
	Dimming depth	1%			
	Dimming current range	1 ~100%			
Protection	Over Load Protection	103-120%			
		YES/Latch off			
	Over Voltage Protection	＞6 0VD C			
		YES/Latch off			
	Short circuit Protection	YES/Latch off			
	Over Temperature Protection	YES/Auto Resume			
Environment	Operating Temperature	- 20℃~+4 5℃			
	Humidity	20%-90%RH			
	Tc	80℃			
	Storage Temperature	-25℃~+60℃			
	Lifetime	>50000h,@Tc=70℃			
Surface	Dimension	160X42X30mm			

| 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℃ 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.	

Model list

Number	Output				Switch position			
	Current (mA) I1+I2	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3	4
1	150mA	9-52VDC	60	7.8	--	-- -	ON	-- -
2	200mA			10.4	ON	-	ON	- --
3	250mA			13	--	ON	ON	--
4	300mA			15.6	ON	ON	ON	ON
5	350mA			18.2	--	--	--	ON
6	4 00mA			20.8	ON	--	--	ON
7	4 50mA			23.4	--	ON	-- -	ON
8	500mA			26	ON	ON	-	ON
9	550mA	9-47.5VDC		26.1	--	--	ON	ON
10	6 00mA	9-43.5VDC		26.1	ON	--	ON	ON
11	650mA	9-40VDC		26	--	ON	ON	ON
*1 2	700mA	9-37.5VDC		26.3	ON	ON	ON	

* Factory default

Wiring diagram
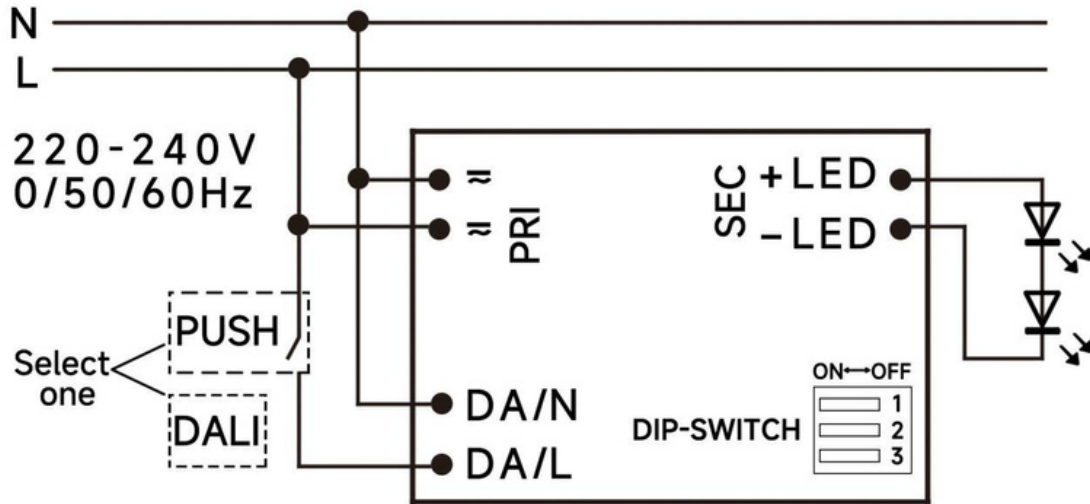
2D diagram
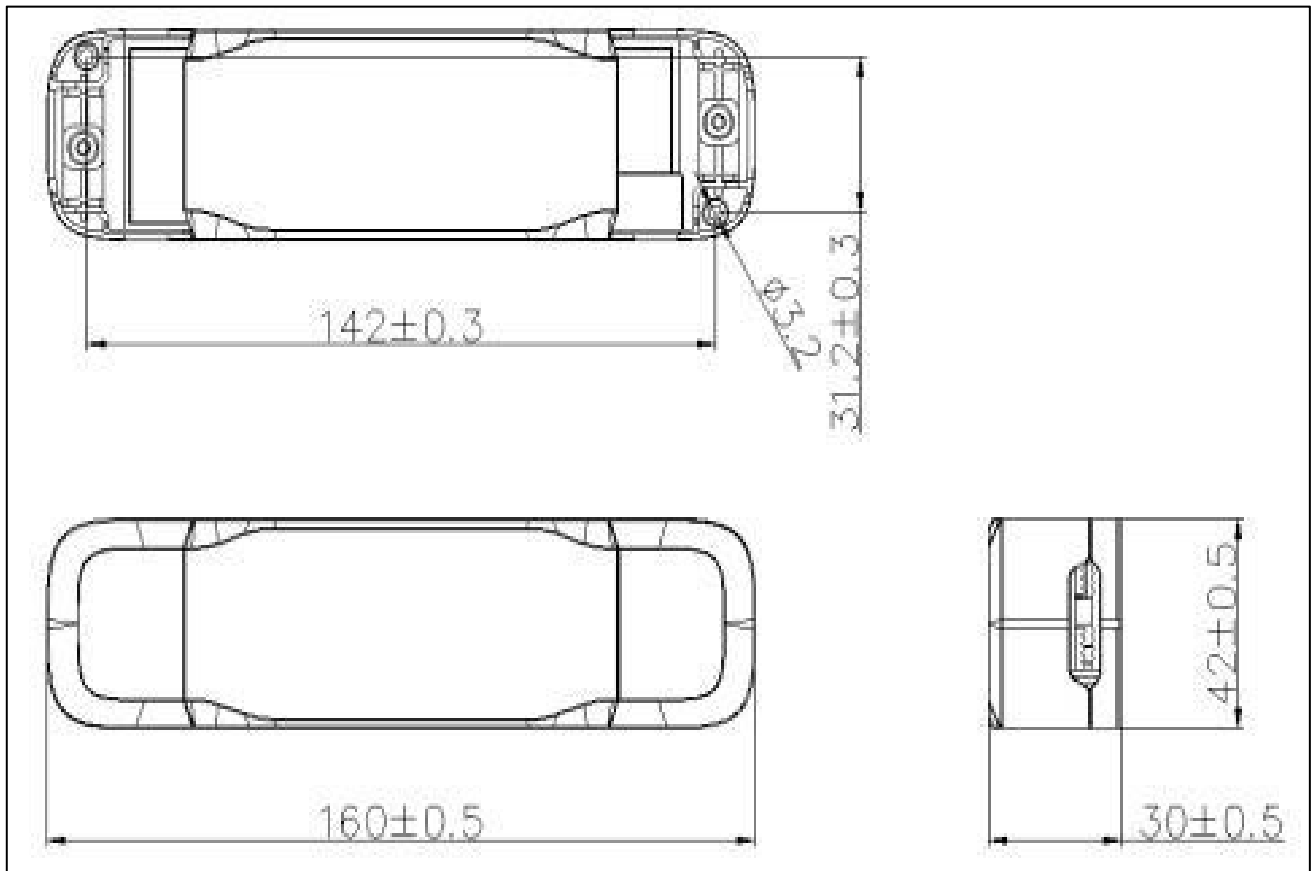
Wiring & Connections

	Specification item	Value （Unit）
Input	Input wire cross-section	0.5...1.5 mm2
	Input wire gauge.	16...20 AWG
	Input wire strip length	8...9mm
Output	Output wire cross-section	0.5...1.5 mm2
	Output wire gauge.	16...20 AWG
	Output wire strip length	8...9mm

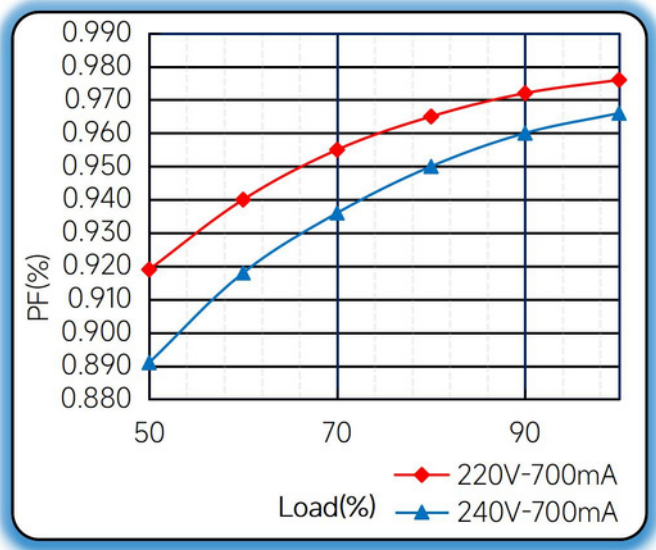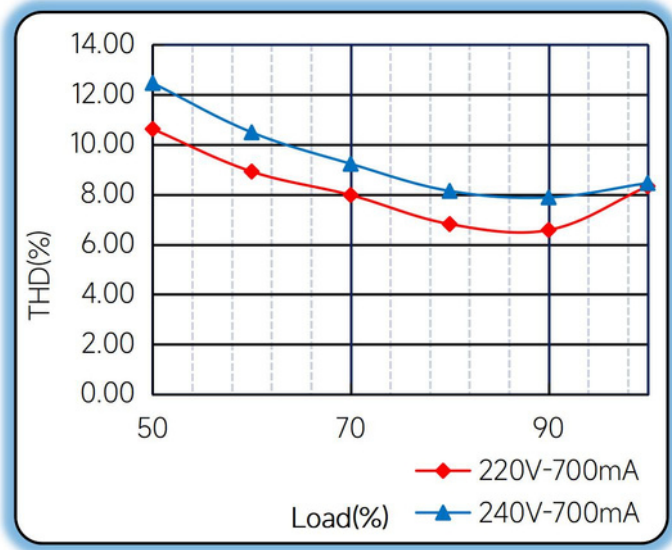## Curve for FLS-25-700 DALI-2 LA1，Io=700mA

Lifetime vs. Ambient Temperature Curve
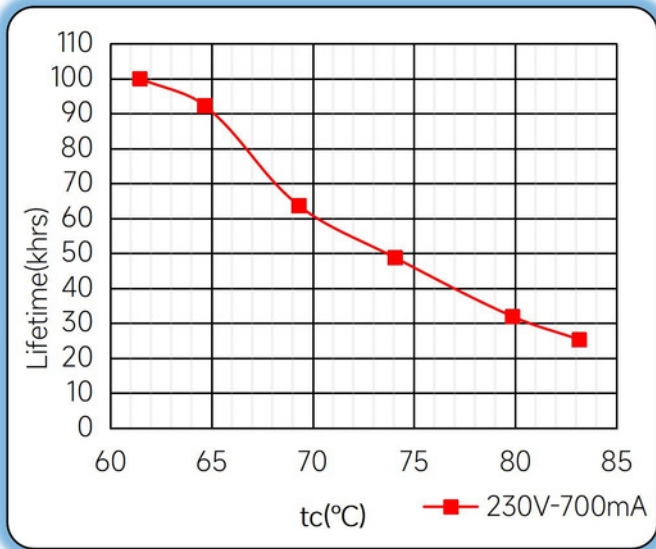
Efficiency vs. Load
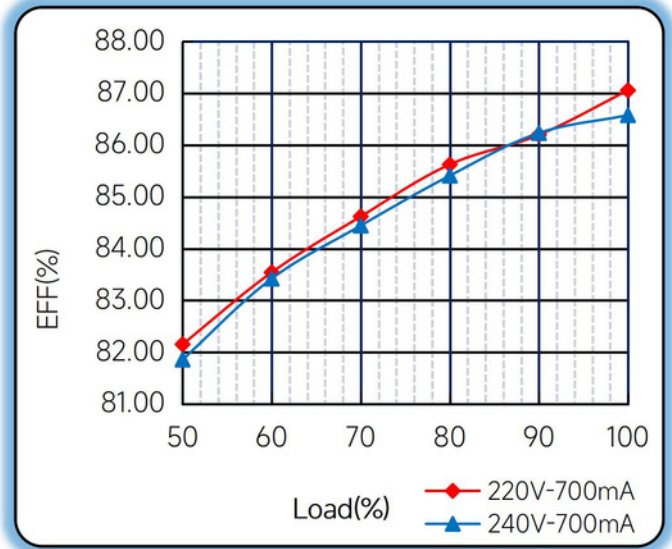
Power Factor Characteristics

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 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
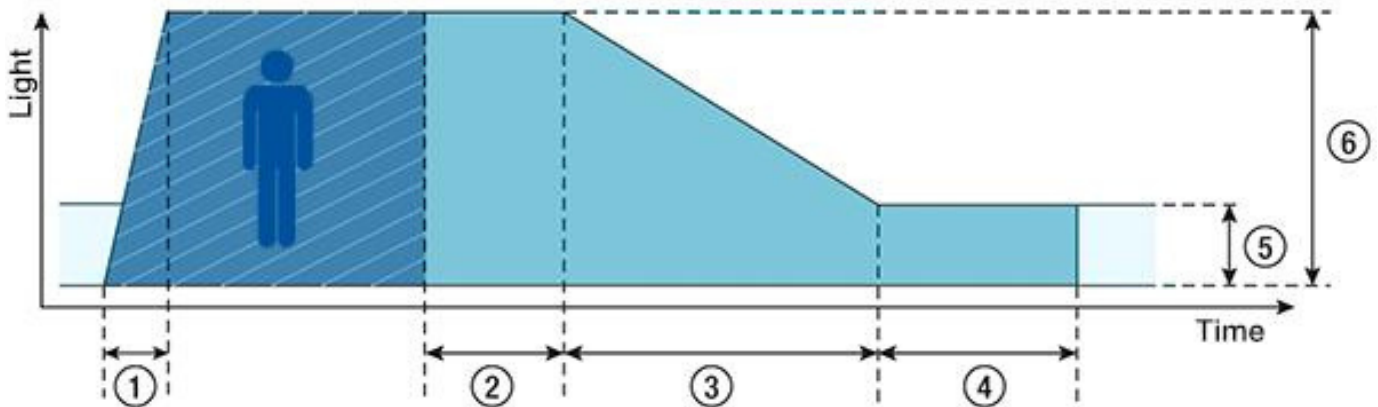
- Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.

- 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.

Operating window

Operating window 100%
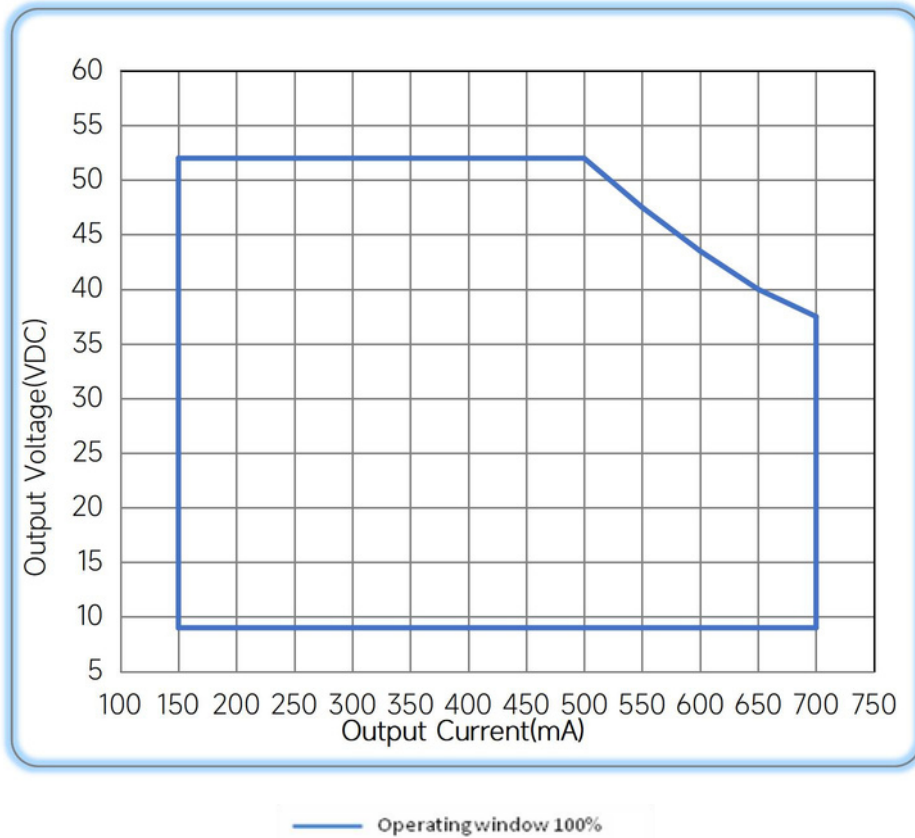
Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/07
Start-up time	0.5S	0.7S	A	2022/08/12

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