

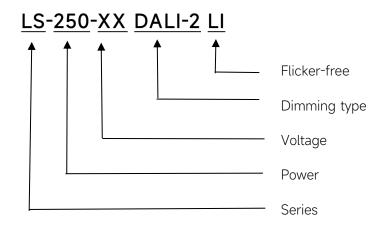
250W DALI+PUSH Dimming power supply



♦ Description

LS-250-XX DALI-2 LI is a 250W constant voltage LED driver that operates from 198-264Vac input with 24V/48V output voltage. With it's compact dimensions from 431 x 45 x 30.5mm it is easy to integrate in LED strips products. To ensure trouble-free operation, protection is provided against output short circuit, over Load. and over Temperature.

♦ Model code





♦ Specification

Output	Constant Voltage	24VDC	48V	
	Current Range	10.41A MAX	5.21A MAX	
	Voltage Accuracy	±3.5%		
	Output HF voltage ripple(>1KHz)	±1%		
	Output LF voltage ripple(≤120Hz)	±1%		
	SVM	≤0.4@Full Load		
	Pst	≤1@Full Load		
	Efficiency(Typ.)	>91%@Full load,220-240V		
	Rated input voltage	220-240V		
Input	Range of input voltage	198-264VAC		
	Range of input voltage(VDC)	176-280VDC		
	Frequency(Hz)	0/50/60 Hz		
	Displacement factor	≥0.9		
	Power Factor	>0.95@Full load,230V		
	Input Current max	1.5AMAX. @Full Load,198VAC		
	Start-up time	< 0.8S		
	No Load Power	≤0.5W		
	Standby Power	≤0.5W@DALI OFF signal is in effect		
	Network standby power	≤0.5W		
	THD (Typ.)	<10% @220-240VAC, Full load		
	Dimming	YES		
Dinamina	Dimming mode	DALI-2 IEC 62386-101,102,207 & Push		
Dimming	Dimming depth	1%		
Dimming	Dimming current range	1-100%		
	Over Load Dretestion	105-150% rated output power		
Protection	Over Load Protection	YES/Auto Resume		
Protection	Short circuit Protection	YES/Auto Resume		
	Over Temperature Protection	YES/Auto Resume		
Capability	Surge capability (L-N)	1KV		
	Operating Temperature	-20°C+45°C		
	Humidity	20%-90%RH		
Environment	Тс	85°C		
Environment	Storage Temperature	-20°C+60°C		
	Life time	>50000h@Tc=80°C, full load		
	Ripple&Noise	≤25dB(A)@20cm		
Surface	Dimension	431 x 45 x 30.5(LXWXH)mm		
SuridCe	material	PC		

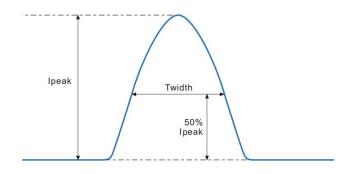




Standards	Safety	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;AS/NZS 61347- 1,		
		AS/NZS 61347-2- 13;EN61347- 1, EN61347-2- 13, EN62384		
	EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN55015, EN61000-3-2,		
		EN61000-3-3, EN61547,EN 62493;EN61000-4-5		
	ErP	Erp2.0 EU 2019/2020		
	RoHS	RoHS (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. The EMI test method is to pad the board, place the led strips in S-shape, and the length of the lead from the power supply to the lamp belt is 20cm.			
	5. The start time is measured when the cold machine is started, and a quick switch may extend the start time.			
	6.DC input does not guarantee EMI performance.			

Inrush Current

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
33.4A	220μ s	5pcs	8pcs	10pcs	5pcs	8pcs	10pcs



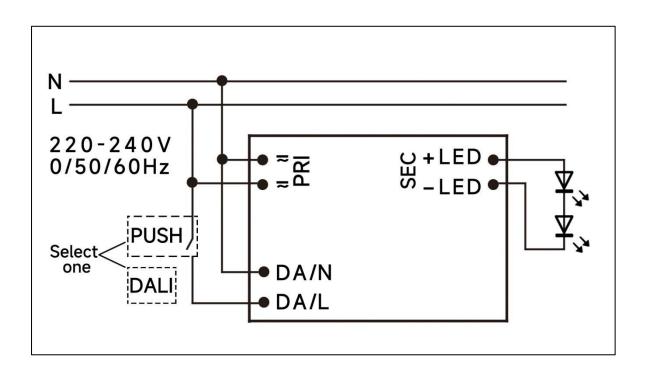
Remarks:

1.The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.



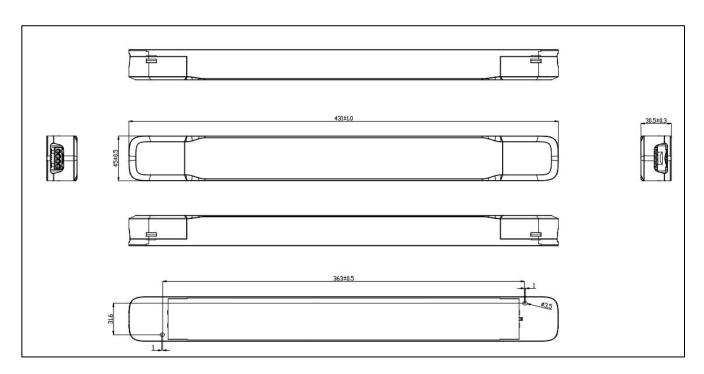
♦ Wiring diagram



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♦ 2D diagram



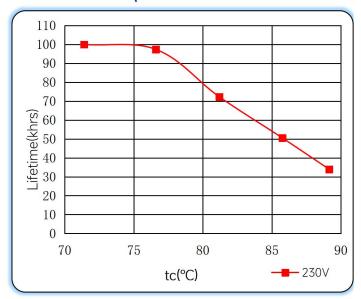
Wiring & Connections

	Specification item	Value (Unit)
Input	Input wire cross-section	0.51.5 mm ²
	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
Output	Output wire cross-section	1.02.5 mm ²
	Output wire gauge.	1418AWG
	Output wire strip length	79mm

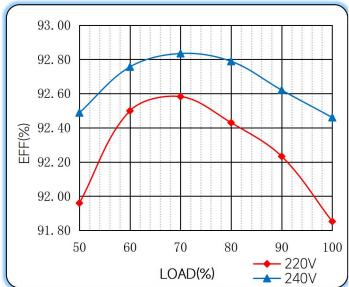


◆ Curve for LS-250-XX DALI-2 LI

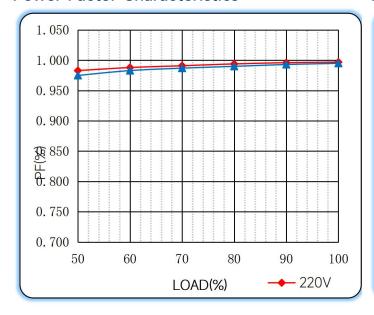
Lifetime vs. Temperature Curve



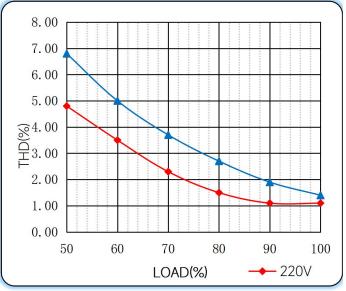
Efficiency vs. Load



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.Fa	LED on: Save current brightness level		
twice	<0.5s	LED off: Delete saved level and turn on at 100% brightness		
Short push five	·7-	Out Camida vale		
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%.

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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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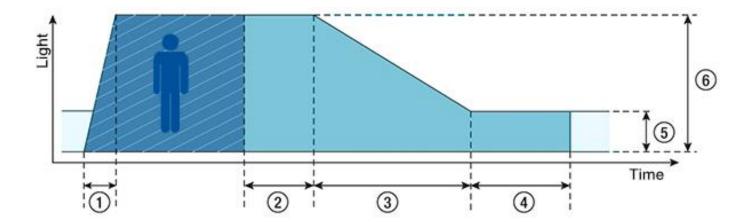
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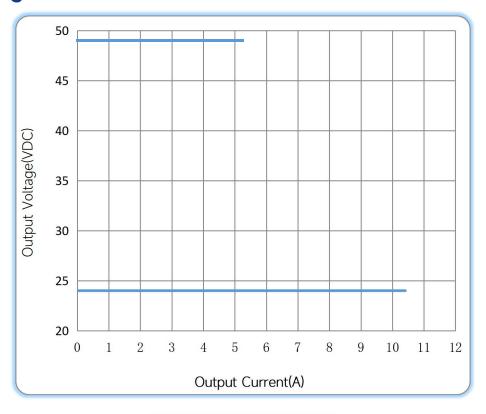
◆ Corridor mode



- ◆ 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.
- SAbsence 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	2025/07/15

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Manual

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