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LS-150-24 DALI2 LI

150W DALI+PUSH Dimming power supply



Features

- Class II, SELV, Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OTP
- Power Factor: 0.95(Typ.)
- Efficiency: ≥91%(Typ.)
- 5 years warranty
- Support DALI-2, Push Dimming

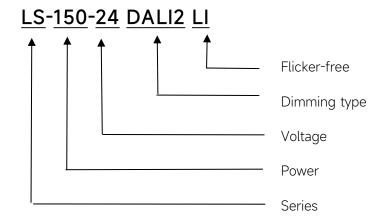
Applications

LED strips

♦ Description

LS-150-24 DALI2 LI is a 150W constant voltage LED driver that operates from 176-264Vac input with 24V output voltage. With it's compact dimensions from 290 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 and over Load.

◆ Model code



Stock code: 002922



♦ Specification

	Constant Voltage	24VDC		
	Current Range	0-6.25A		
	Voltage Accuracy	±3.5%		
Output	Output HF current ripple(≥1KHz)	±1%		
	Output LF current ripple(≤120Hz)	±1%		
	SVM	≤0.4@Full Load		
	P _{st}	≤1@Full Load		
	Efficiency(Typ.)	>91%		
	Rated input voltage	220-240VAC		
	Range of input voltage	176-264VAC		
	Rated input voltage(DC)	176-280VDC		
	Frequency(Hz)	0/50/60 Hz		
	Displacement factor	≥0.9		
Lancet	Power Factor	>0.95		
Input	Input Current max	1A MAX. @Full Load,198VAC		
	Start-up time	< 0.5S		
	No Load Power	<0.5W		
	Standby Power	<0.5W		
	Network standby power	≤0.5W		
	THD (Typ.)	<10% @220-240VAC, Full load		
	Dimming	YES		
Dimension	Dimming mode	DALI-2 IEC 62386-101,102,207 & Push Dimming (Corridor Function)		
Dimming	Dimming depth	1%		
	Dimming current range	1-100%		
	Over Load Protection	105-150% rated output power		
Duatastian		YES/Auto Resume		
Protection	Short circuit Protection	YES/Auto Resume		
	Over Temperature Protection	YES/Auto Resume		
	Operating Temperature	-20℃+45℃		
	Humidity	20%-90%RH		
Environment	Тс	85°C		
	Storage Temperature	-20℃+60℃		
	Life time	>50000h@Tc=85°C, full load		
Surface	Dimension	290 x 45 x 30.5mm(LXWXH)mm		
Standards		C61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN61347- 1;EN61347-2- 13, EN62384;EN55015		
Others	ErP	EU 2019/2020		
	RoHS	RoHS (2011/65/EU) (EU)2015/863		

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Note

1.All parameters NOT specially mentioned are measured at 230VAC input, full load and 25°C of ambient temperature.

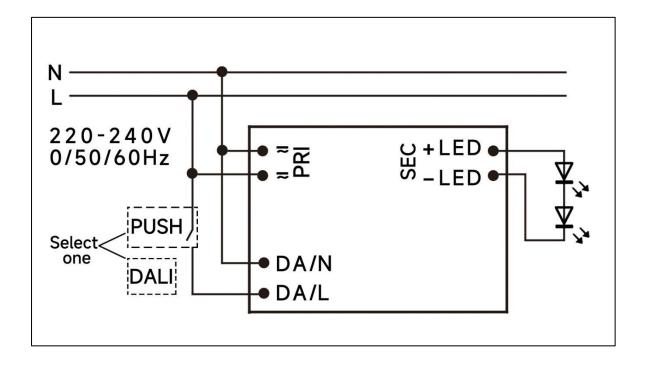
2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor.

3. The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.

♦ Circuit Breaker

I ^{peak}	Twidth	B10	B16	B20	C10	C16	C20
47A	428μ s	3pcs	6pcs	7pcs	6pcs	10pcs	12pcs

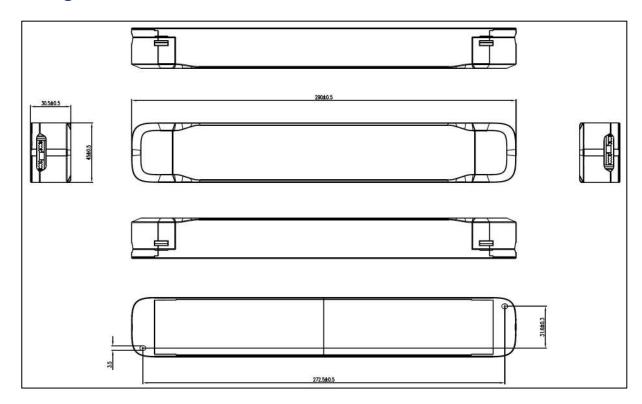
♦ Wiring diagram



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♦ 2D diagram



Wiring & Connections

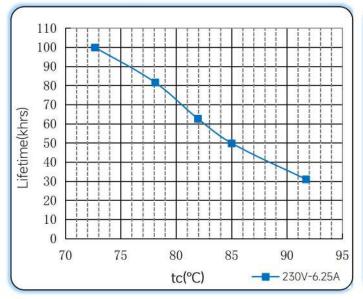
Specification item		Value (Unit)
Input	Input wire cross-section	0.51.5 mm ²
	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
Output	Output wire cross-section	0.51.5 mm ²
	Output wire gauge.	1620 AWG
	Output wire strip length	79mm

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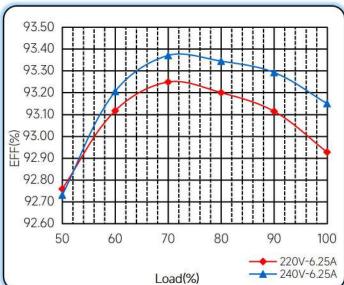


◆ Curve for LS-150-24 DALI2 LI

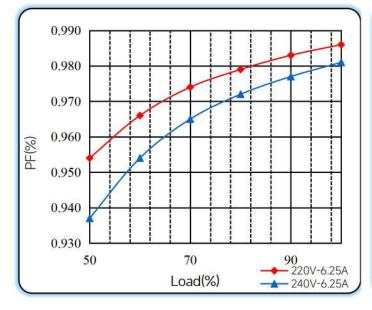
Lifetime vs. Temperature Curve



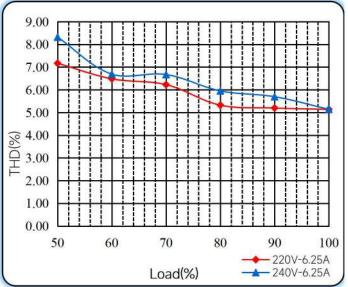
Efficiency vs. Load



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	<0.5s	LED on: Save current brightness level		
twice	<0.58	LED off: Delete saved level and turn on at 100% brightness		
Short push five	<0.Fo	Ouit Carridar made		
times	<0.5s	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%.

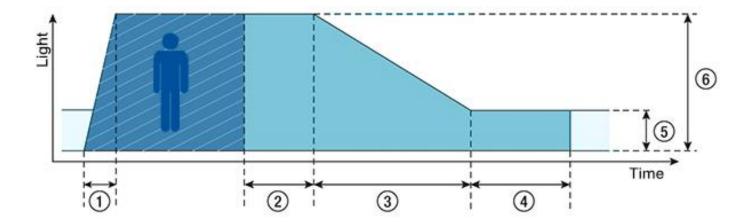
2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button

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

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◆ Corridor mode

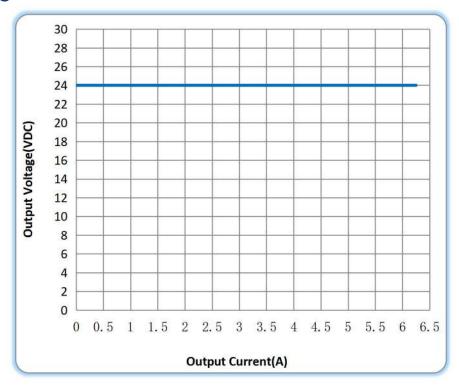


- ◆ Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person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

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♦ Operating window



Operating window 100%

♦ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2022/02/15
Efficiency	≥89%	≥91%	В	2022/11/09
Protection	OVP	ОТР	В	2022/11/09

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Manual

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Article information 2022/ 11/09

REV: B

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