

150W constant Voltage-LS Series

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

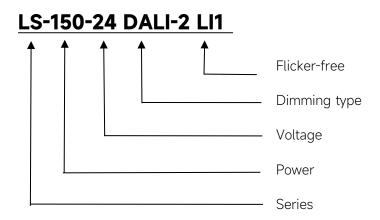
LED strips



♦ Description

LS-150-24 DALI-2 LI1 is a 150W constant voltage LED driver that operates from 198-264Vac input with 24V output voltage. With it's compact dimensions from 318 x 38 x 30 mm. 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

Output	Constant Voltage	24VDC	
	Current Range	0-6.25A	
	Voltage Accuracy	±5%	
	Output HF current ripple(>1KHz)	±1%	
	Output LF current ripple(≤120Hz)	±1%	
	SVM	≤0.4 @Full Load	
	Pst	≤1@Full Load	
	Efficiency(Typ.)	>91%@Full load,230V	
	EOFI	15%	
	Rated input voltage	220-240V	
	Range of input voltage	198-264VAC	
	Maximum voltage	300VAC@1 h maximum,unit might not operate in this abnormal condition	
	Range input voltage(VDC)	176-280VDC	
	Frequency(Hz)	0/50/60 Hz	
	Displacement factor	≥0.9	
	Power Factor	≥0.95@Full Load,230V	
Input	Input Current max	1A Max@Full Load,198VAC	
	Start-up time(AC mode)	<0.8S	
	Start-up time(DC mode)	< 0.6S	
	Switch over time(AC/DC mode)	< 0.4S	
	Standby Power	≤0.5W, @DIM TO OFF	
	Network Standby Power	≤0.5W,@220Vac	
	THD (Typ.)	<10%@220-240VAC, Full load	
	Dimming	YES	
	D:i d-	DALI-2 (IEC 62386-101,102,207,251,252,253)	
Dimming	Dimming mode	&Push Dimming (Corridor Function)	
	Dimming depth	1%	
	Dimming current range	1-100%	
		105-150% rated output power	
Protection	Over Load Protection	YES/Auto Resume	
	Short circuit Protection	YES/Auto Resume	
	Over Temperature Protection	YES/Auto Resume	
	Surge capability (L-N)	1KV	
capability	Surge capability (L/N-Ground)	NA NA	
	Operating Temperature	-20°C~+45°C	
	Humidity	20%-90%RH	
Environment	Tc	85°C	
	Storage Temperature	-30°C~+85°C	
	Life time	> 50000h@Tc=75°C,full load	

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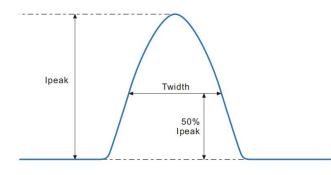




	Ripple & Noise	<25dB(A)@20cm		
Surface	Dimension	318X38X30(LXWXH)mm		
	material	PC		
Standards	Safety	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN61347- 1,		
	EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61547;GB/T17743;GB17625. 1		
	Energy Efficiency	Erp2.0 EU 2019/2020		
	RoHS	RoHS (2011/65/EU) (EU)2015/863		
DALI performance	EN 62386-101 (DALI-2) EN 62386-102 (DALI-2) EN 62386-207 (DALI-2,including part251,252,253)			
Note	 1.All parameters NOT specially mentioned are measured at 240VAC 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.Switch and dimmer are not recommended to connect between this product output and luminaries. 4.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered. 			

♦ Inrush Current

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
56.8A	344μ s	4pcs	6pcs	8pcs	6pcs	10pcs	13pcs



Remarks:

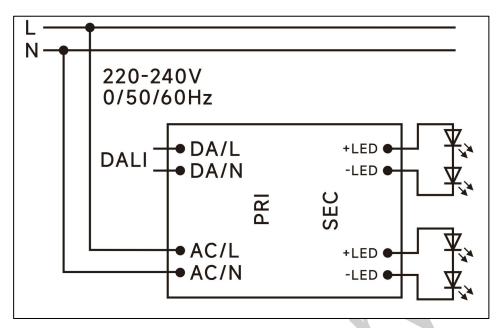
1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

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

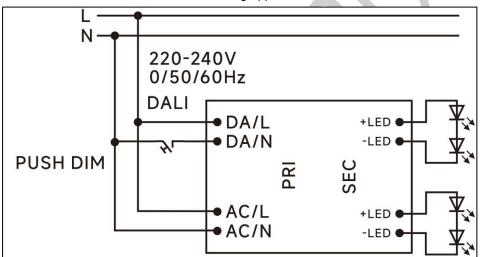
♦ Wiring diagram

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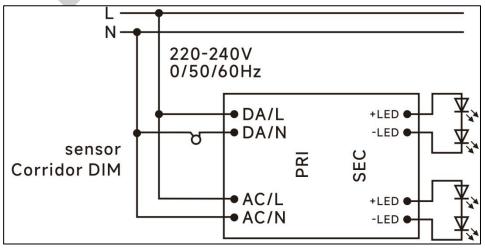




DALI dimming application



PushDIM dimming application

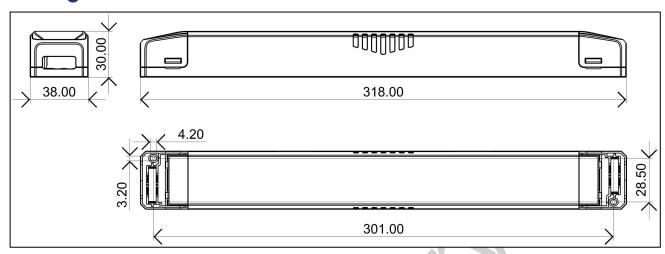


Corridor DIM dimming application

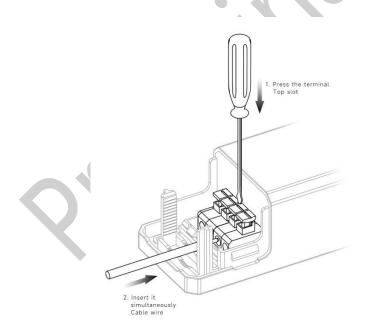
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♦ 2D diagram



Termina





♦ Wiring & Connections

	Specification item	Value (Unit)
Input/Dim	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 DALI-2 LI1

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	<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	~7 ₂	Ouit Consider reads			
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:

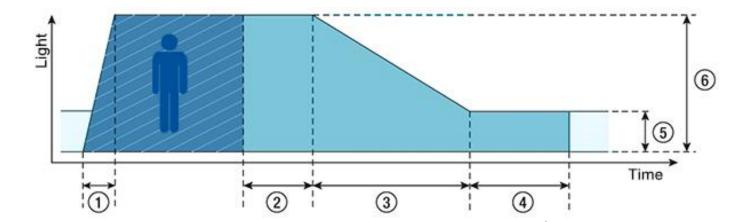
1. The factory default brightness is at 100%.

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

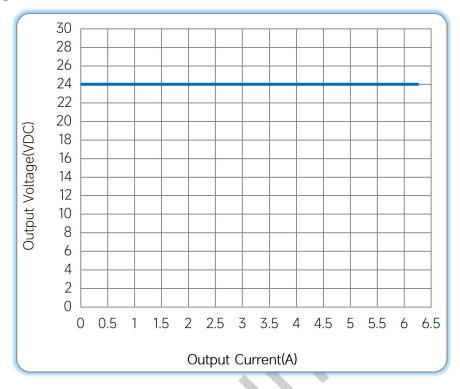


- ①Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- ②Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person 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.
- **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.
- **⑤**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			Α	2023/07/12

Remark: The final interpretation of the contents of the specification belongs to Eaglerise Electric & Electronic (China) Co., Ltd.

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EAGLERISE

Manual