

45W DALI+PUSH Dimming power supply





Features

- Class II, SELV, Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.9@Full Load
- Efficiency: ≥85%@Full Load
- 5 years warranty
- Support DALI-2, Push Dimming
- IP20

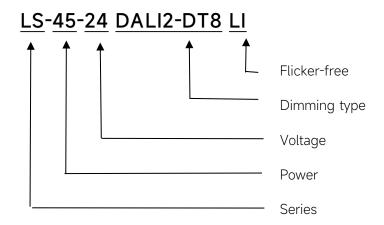
Applications

LED strips

♦ Description

LS-45-24 DALI2-DT8 LI is a 45W constant Voltage LED driver that operates from 176-264Vac input with 24V output voltage. With it's compact dimensions from 187 x 45 x 30.5 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

	Constant Voltage	24VDC	
Output	Current Range	0-1.875A	
	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.)	>85%@Full Load	
	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	0.9@Full Load	
Input	Input Current max	0.34A MAX	
	Start-up time	< 0.5S	
	No Load Power	<0.5W	
	Standby Power	≤0.5W	
	Network standby power	≤0.5W	
	THD (Typ.)	<15%	
	Dimming	YES	
D: :	Dimming mode	DALI-2 IEC 62386-101,102,207,209 & Push Dimming (Corridor Function)	
Dimming	Dimming depth	1%	
	Dimming current range	1-100%	
	Over Load Protection	105-150% rated output power	
		YES/Auto Resume	
.		>25.2VDC	
Protection	Over Voltage Protection	YES/Auto Resume	
	Short circuit Protection	YES/Auto Resume	
	Over Temperature Protection	YES/Auto Resume	
	Operating Temperature	-20°C~+45°C	
Environment	Humidity	20%-90%RH	
	Тс	85°C	
	Storage Temperature	-25°C~+60°C	
	Life time	> 50000h@Tc=85°C	
Surface	Dimension	187x45x30.5(LXWXH)mm	
Standards	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN61347- 1;EN61347-2- 13, EN62384;EN55015		
Others	ErP	EU 2019/2020	

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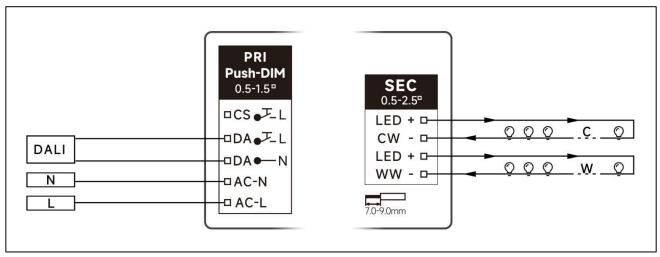


	RoHS	RoHS (2011/65/EU) (EU)2015/863			
	1.All parameters not specially mentioned are measured at 230VAC input, full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel				
Note	capacitor. 3.The DC input for this product is only	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.This LED driver meets the EMI specifications above, but EMI performance of a lighting fixture also depends on the other devices on				
	the fixture.				

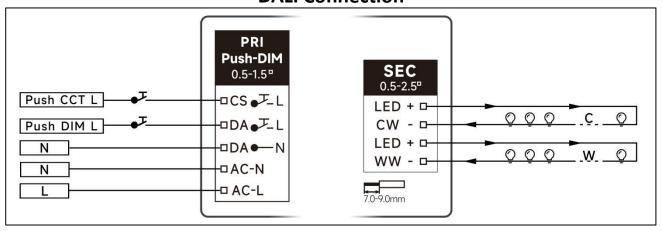
Circuit Breaker

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
15.1A	308µ s	17pcs	27pcs	34pcs	23pcs	37pcs	47pcs

♦ Wiring diagram



DALI Connection

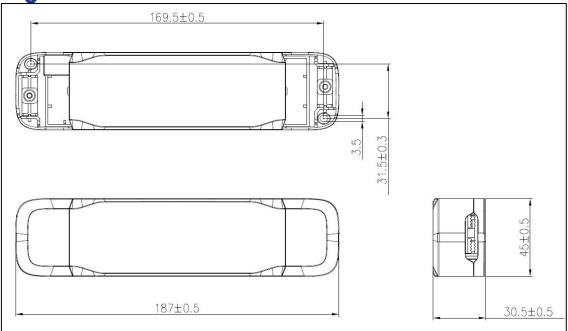


push DIM/CCT Connection

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♦ 2D diagram



♦ Wiring & Connections

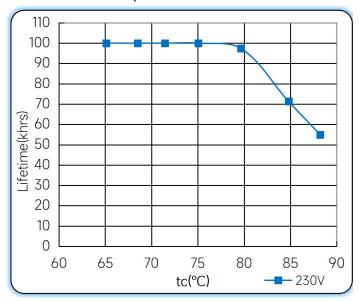
	Specification item	Value (Unit)
Input	Input wire cross-section	0.51.5 mm ²
	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
	Output wire cross-section	0.52.5 mm ²
Output	Output wire gauge.	1620 AWG
	Output wire strip length	79mm

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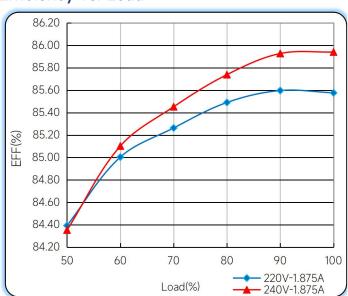


◆ Curve for LS-45-24 DALI2-DT8 LI

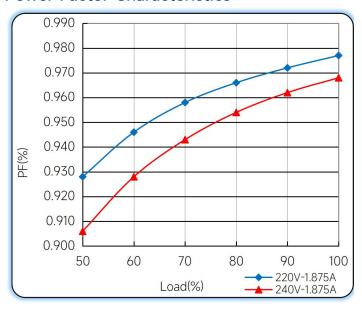
Lifetime vs. Temperature Curve



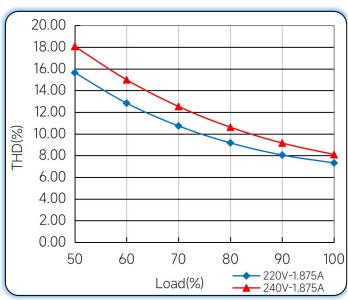
Efficiency vs. Load



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	<0.55	LED off: Delete saved level and turn on at 100% brightness		
Short push five	<0.Fo	Quit 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%.

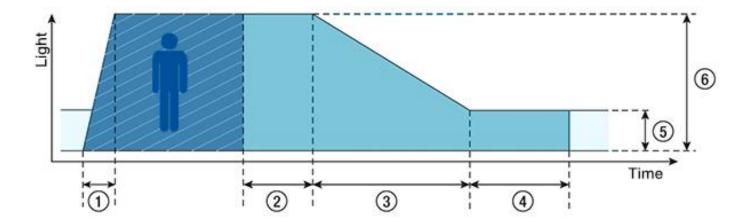
2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button

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

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◆ Corridor mode

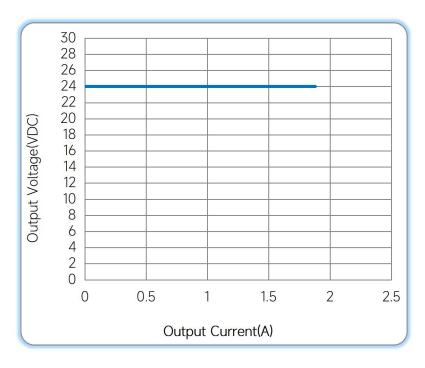


- ◆ Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person 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			Α	2022/05/15

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EAGLERISE

Manual

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