

45W DALI+PUSH Dimming power supply



Features

- Class II, SELV, Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor: > 0.95
- Efficiency: ≥86%
- 5 years warranty
- Support DALI-2, Push Dimming

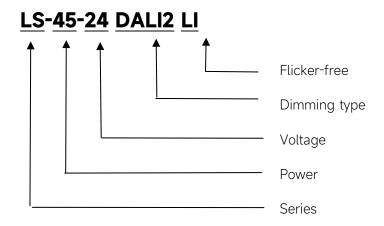
Applications

LED strips

♦ Description

LS-45-24 DALI2 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	0-1.88A		
	Voltage Accuracy	±5%		
	Output HF current ripple(≥1KHz)	±1%		
	Output LF current ripple(≤120Hz)	±1%		
	SVM	≤0.4		
	Pst	ৰ		
	Efficiency(Typ.)	86%		
	Rated input voltage	220-240VAC		
	Range of input voltage	176-264VAC		
	Rated input voltage(DC)	176-280V		
	Frequency(Hz)	0/50/60 Hz		
	Displacement factor	≥0.9		
	Power Factor	0.95		
Input	Input Current max	0.35A MAX		
	Start-up time	< 0.5 S		
	No Load Power	<0.5W		
	Standby Power	<0.5W		
	Network standby power	≤0.5W		
	THD (Typ.)	<25%		
	Dimming	YES		
	Dimming mode	DALI-2 IEC 62386-101,102,207 & Push Dimming (Corridor Function)		
Dimming	Dimming depth	1%		
	Dimming current range	1-100%		
	PWM Resolution	16 bit		
		105-150% rated output power		
	Over Load Protection	YES/Auto Resume		
		> 25.2VDC		
Protection	Over Voltage Protection	Protection type: Auto Resume		
	Short circuit Protection	YES/Auto Resume		
	Over Temperature Protection	YES/Auto Resume		
	Operating Temperature	-20°C+50°C		
Environment	Humidity	20%-90%RH		
	Tc	85°C		
	Storage Temperature	-30°C+65°C		
	Life time	>50,000h@Tc=75°C, full load		
Surface	Dimension	187x45x30.5mm(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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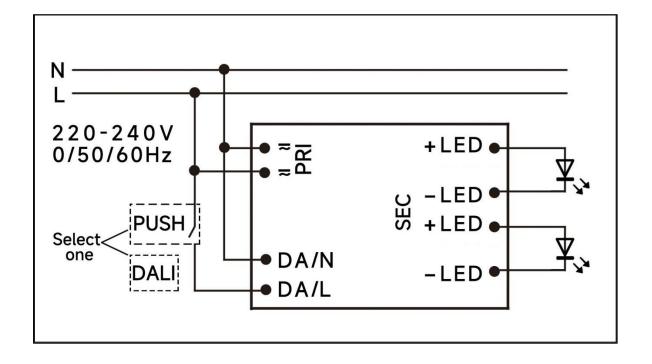


	RoHS	RoHS (2011/65/EU)	(EU)2015/863
Note	2.Ripple & Noise are measured at 20MH capacitor.	z of bandwidth by using a	C input , full load and 25°C of ambient temperature. a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel ag and applies to functional and safety requirements, EMC is not

♦ Circuit Breaker

lpeak	Twidth	B10	B16	B20	C10	C16	C20
29.1A	215.4µs	13pcs	20pcs	26pcs	21pcs	34pcs	43pcs

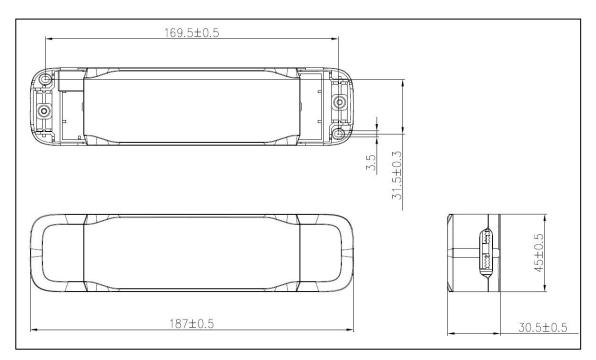
♦ Wiring diagram



Stock code: 002922



♦ 2D diagram



Wiring & Connections

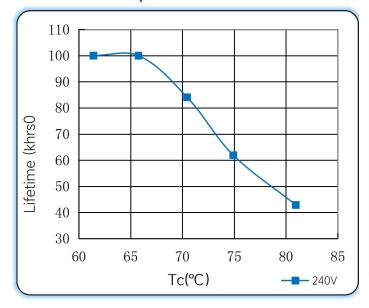
Specification item		Value (Unit)	
Input	Input wire cross-section	0.51.5 mm ²	
	Input wire gauge.	1620 AWG	
	Input wire strip length	79mm	
Output	Output wire cross-section	0.51.5 mm ²	
	Output wire gauge.	1620 AWG	
	Output wire strip length	79mm	

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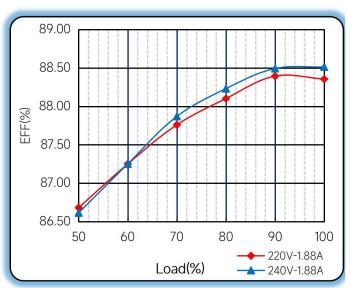


Curve for LS-45-24 DALI2 LI

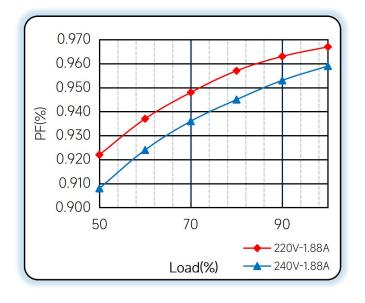
Lifetime vs. Temperature Curve



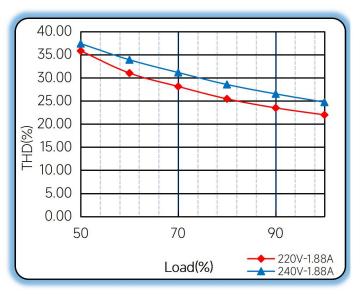
Efficiency vs. Load



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	40 F-	LED on: Save current brightness level		
twice	<0.5s	LED off: Delete saved level and turn on at 100% brightness		
Short push five	47.			
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

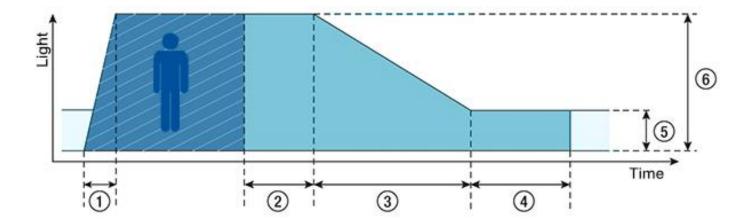
3. The maximum length of the cable from the push button to the last driver is 200 meters.

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DZ-YF3-02-09A



◆ Corridor mode

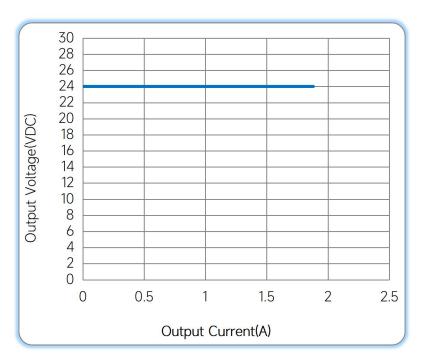


- ◆ ①Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- ②Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person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

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Manual

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