

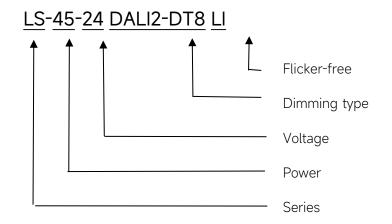
45W DALI+PUSH Dimming power supply



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





Specification

	No Load Power	<0.5W
	Start-up time	< 0.5S
	Standby Power	<0.5W
Network standby power <0.5W		
Dimming		DALI-2 IEC 62386-101,102,207,209 & Push Dimming (Corridor Function)
	Dimming depth	1%
	Dimming current range	1-100%
	Over Load Protection	105-150% rated output power
	Over Load Protection	YES/Auto Resume
_		> 25.2VDC
Protection	Over Voltage Protection	YES/Auto Resume
	Short circuit Protection	YES/Auto Resume
Protection	Over Temperature Protection	YES/Auto Resume
	Operating Temperature	-20°C~+45°C
		20%-90%RH
Environment	Humidity	
	Tc Storage Temperature	85℃ -25℃~+60℃
	Life time	> 50000h@Tc=85°C
C		
Surface	Dimension	187x45x30.5(LXWXH)mm
Standards		347- 1, EN61347-2- 13;EN61347- 1;EN61347-2- 13, EN62384;EN55015

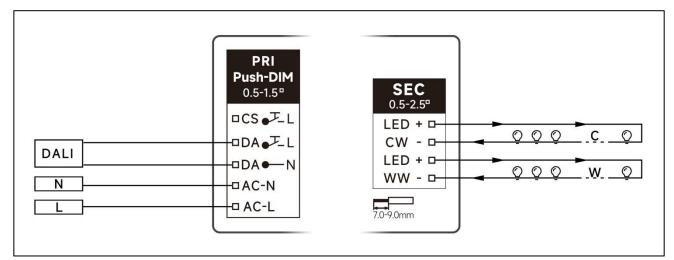


	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	2.Ripple & Noise are measured at 20MH capacitor.3.The DC input for this product is only considered.	are measured at 230VAC input , full load and 25°C of ambient temperature. z of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel used for emergency lighting and applies to functional and safety requirements, EMC is not ations above, but EMI performance of a lighting fixture also depends on the other devices on

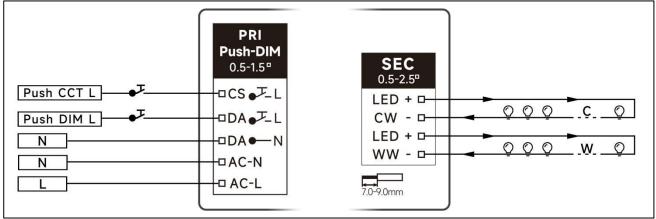
Circuit Breaker

I ^{peak}	Twidth	B10	B16	B20	C10	C16	C20
15.1A	308μ s	17pcs	27pcs	34pcs	23pcs	37pcs	47pcs

Wiring diagram



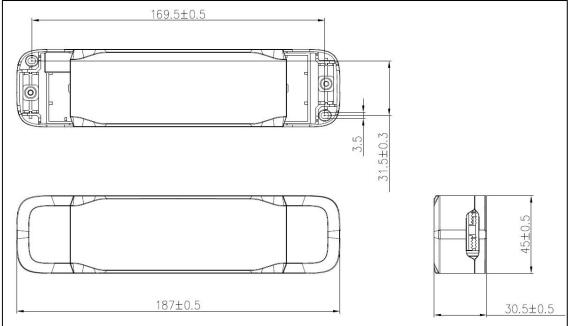
DALI Connection



push DIM/CCT Connection



◆ 2D diagram

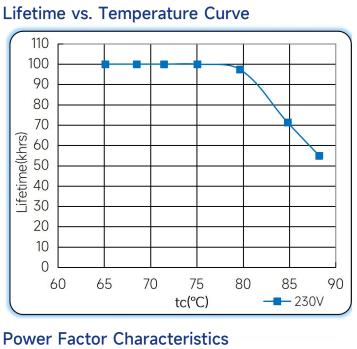


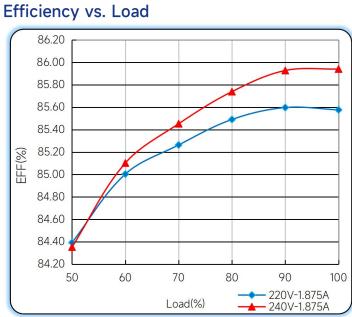
Wiring & Connections

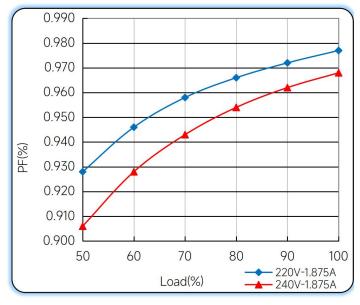
	Specification item	Value (Unit)
	Input wire cross-section	0.51.5 mm ²
Input	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
	Output wire cross-section	0.52.5 mm ²
Output	Output wire gauge.	1620 AWG
	Output wire strip length	79mm



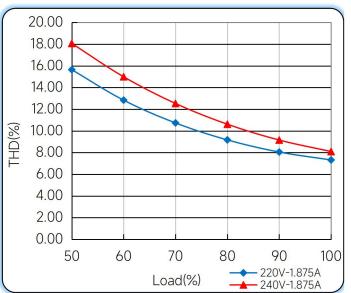
Curve for LS-45-24 DALI2-DT8 LI







THD vs. Load





Push dimming operation

movement Current state		Brightness key operation	Color temperature button operation	
Short press (50ms <push<500ms)<="" td=""><td>ON</td><td>Turn off the light</td><td>Turn off the light</td></push<500ms>	ON	Turn off the light	Turn off the light	
Short press (50ms <push<500ms)<="" td=""><td>Off</td><td>Turn on the light to restore the brightness before OFF, if there is a memory brightness, restore the brightness of the memory</td><td>Turn on the light to restore the brightness before OFF, and restore the brightness of the memory if there is memory brightness</td></push<500ms>	Off	Turn on the light to restore the brightness before OFF, if there is a memory brightness, restore the brightness of the memory	Turn on the light to restore the brightness before OFF, and restore the brightness of the memory if there is memory brightness	
Double-click (Press twice within 500ms)	On	Save the current brightness and color temperature. If the indicator blinks twice (Max-Min-Max-Min), the storage is saved successfully	Save the current brightness and color temperature. If the indicator blinks twice (Max-Min-Max-Min), the storage is saved successfully	
Double-click (Press twice within 500ms)	Off	Cancel double click save value, restore default brightness (100%) and default color temperature (4000K)		
Tap and hold (0.5 -120s)	ON	Adjust the brightness and switch the adjustment direction after each release	Adjust the color temperature and switch the adjustment direction after each release	
Tap and hold (0.5 -120s)	Off	Turn on the light and turn it on from the minimum brightness	Turn on the light at the lowest brightness and turn it down from the warmest color temperature	
Enter Corridor mode: Hold down for 120 seconds	Max	First, long press dimming to the darkest, 120S to the brightest indicates entering the corridor mode, if there is a save color temperature, switch to the save color temperature	First, long press dimming to the darkest, 120S to the brightest indicates entering the corridor mode, if there is a save color temperature, switch to the save color temperature	
Enter Corridor mode: Hold down for 120 seconds	Min	to the brightest indicates entering the corridor mode, if there is a save color temperature,	First, long press the dimmer to the brightest, then turn it to the darkest in 120S, then turn it up to the brightest indicates entering the corridor mode, and switch to the saved color temperature if there is a save color temperature	
Exit Corridor mode: Tap 5 times within 3 seconds	Corridor model	Quits The corridor mode and enters the PUSH mod	Quits The corridor mode and enters the PUSH mod	

Attention:

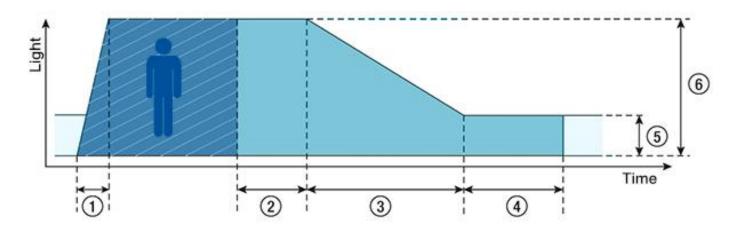
1. Do not use PUSH dimming and DALI dimming at the same time, otherwise it may damage other DALI equipment

2.PUSH Button needs to be connected to 50/60Hz AC, can not be PUSH dimming when connected to DC

3. The product enters PUSH mode after PUSH dimming. If DALI mode needs to be returned, send DALI instructions to return to DALI mode and power-on.



Corridor mode

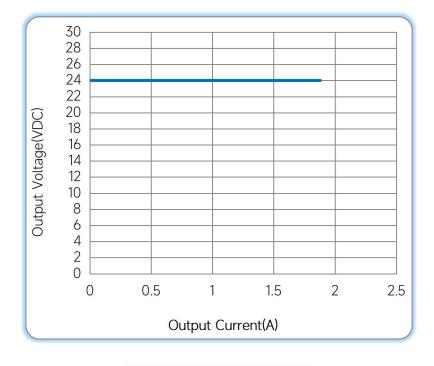


- ①Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- ②Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person 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.
- **④Switch-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.
- **OPresence value (default: 100 %):** the luminous intensity when persons are present.



LS-45-24 DALI2-DT8 LI

Operating window



Operating window 100%

• Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2022/05/15

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Manual