

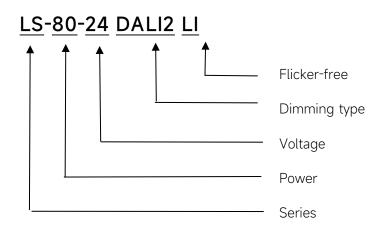
80W DALI+PUSH Dimming power supply



Description

LS-80-24 DALI2 LI is an 80W constant Voltage LED driver that operates from 176-264Vac input with 24V output voltage. With it's compact dimensions from 290 x 45 x 30.5 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 cod





Specification

	Constant Voltage	24VDC
	Current Range	0-3.33A
	Voltage Accuracy	±5%
Output	Output HF current ripple(≥1KHz)	±1%
	Output LF current ripple(<120Hz)	±1%
	SVM	≤0.4
	P _{st}	≤۱
	Efficiency(Typ.)	87%
	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
العربين الم	Power Factor	0.95
Input	Input Current max	0.62A 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	Dimming mode	DALI-2 IEC 62386-101,102,207 & Push Dimming (Corridor Function)
Dimining	Dimming depth	1%
	Dimming current range	1-100%
	Over Load Protection	105-150% rated output power
		YES/Auto Resume
Protection		> 25.2VDC
FIOLECLION	Over Voltage Protection	Protection type: Auto Resume
	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	-30°C+65°C
	Life time	≥50,000h@Tc=85°C, full load
Surface	Dimension	290x45x30.5(LXWXH)mm
Standards	IEC61347- 1, IEC61347-2- 13;EN613	347- 1, EN61347-2- 13;EN61347- 1;EN61347-2- 13, EN62384;EN55015
Others	ErP	EU 2019/2020

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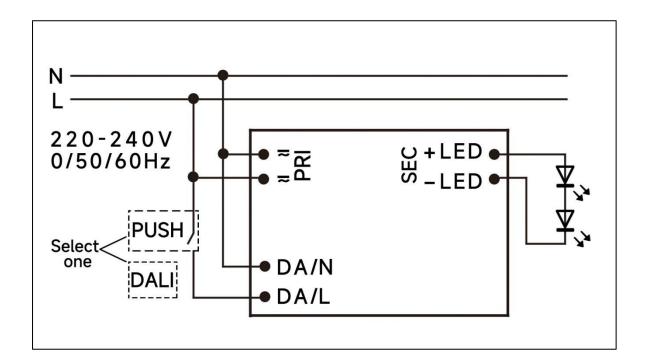


1.All parameters not specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 u capacitor. Note 3.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EN	R		RoHS	RoHS (2011/65/EU)	(EU)2015/863
considered. 4.This LED driver meets the EMI specifications above, but EMI performance of a lighting fixture also depends on the other de the fixture.	2. ca 3. cc 4.	Note	 2.Ripple & Noise are measured at 20MHz capacitor. 3.The DC input for this product is only to considered. 4.This LED driver meets the EMI specification. 	z of bandwidth by using a used for emergency light	a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF paralle ing and applies to functional and safety requirements, EMC is no

Circuit Breaker

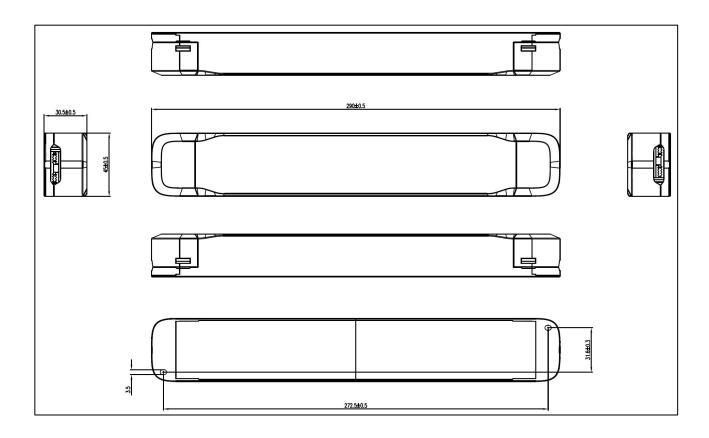
I ^{peak}	Twidth	B10	B16	B20	C10	C16	C20
33.2A	507.1µs	4pcs	7pcs	9pcs	7pcs	12pcs	15pcs

• Wiring diagram





♦ 2D diagram



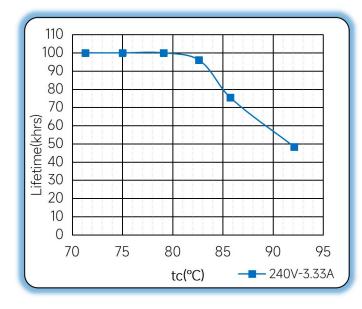
Wiring & Connections

	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	0.51.5 mm ²
Output	Output wire gauge.	1620 AWG
	Output wire strip length	79mm

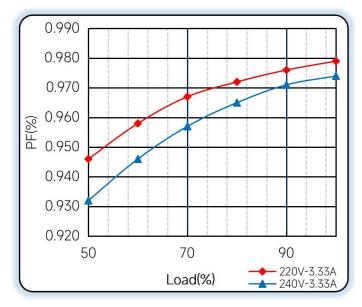


Curve for LS-80-24 DALI2 LI

Lifetime vs. Temperature Curve



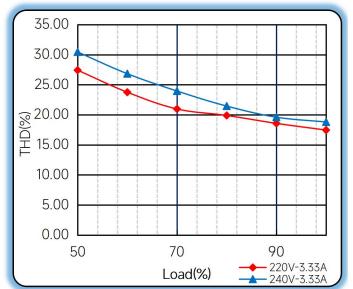
Power Factor Characteristics



Efficiency vs. Load



THD vs. Load





Push dimming operation

Action	Action duration	Function		
Short push	<0.5s	Turn on/off		
Short push		LED on: Save current brightness level		
twice	<0.5s	LED off: Delete saved level and turn on at 100% brightness		
Short push five		Quit Corridor mode		
times	<0.5s			
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%.

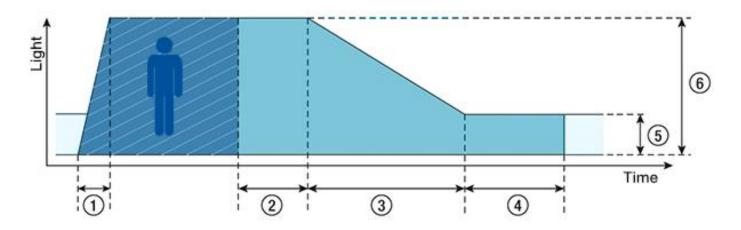
2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button

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





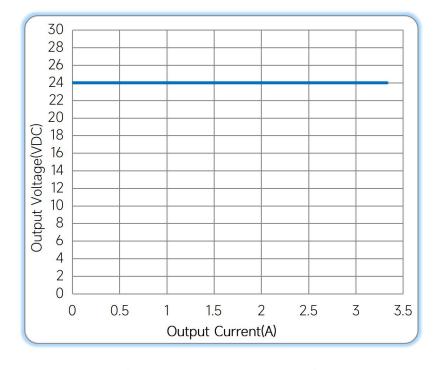
Corridor mode



- 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.



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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