

80W Constant Voltage DALI2-LS Series

LS-80-24 DALI2-DT8 LI

■ Approve

SELV CE

■ Features

- Class I, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor >0.9
- Efficiency ≥86%
- Support DALI II, Push Dimming
- 5 years warranty

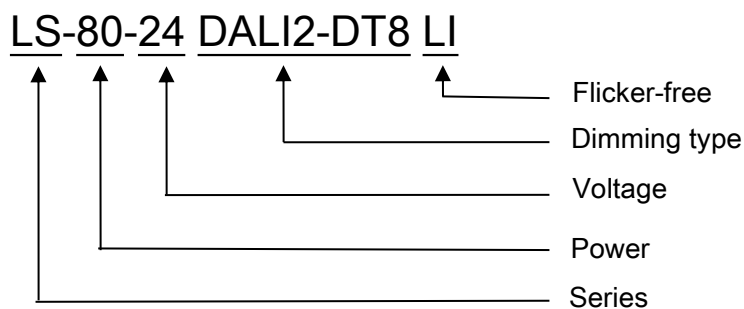
■ Applications

- Wall light
- Linear light

■ Description

LS-80-24 DALI2-DT8 LI is a 80W constant Voltage LED driver that operates from 176-264Vac input with 24V output voltage. With it's compact dimensions from 340 x 45 x 30.5 mm it is easy to integrate in wall light and linear light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

■ Model code



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■Specification

Input	Rated input voltage	220-240VAC
	Range of input voltage	176-264VAC
	Rated input voltage(DC)	198-254VDC
	Range of input voltage(DC)	176-280V
	Frequency(Hz)	0/50/60 Hz
	Displacement factor	≥0.9
	Power Factor	> 0.9@Full Load, 230VAC
	Input Current max	0.63A MAX. @Full Load,176VAC
	Start-up time	< 1S
	Unload Power Consumption	≤0.5W
	Inrush Current	30A Max.
	THD	≤15% @Full Load,230VAC
	Leakage Current	< 0.7mA(240VAC)
Output	Constant Voltage	24VDC
	Current Range	0-3.33A
	Rated power	79.9W Max.
	Voltage Accuracy	±5%@220-240VAC
	Voltage Regulation	±5% @ Full Load,220-240VAC
	Load Regulation	±5%@220-240VAC
	Hold-up Time	1s max.@Full Load
	Ripple& Noise *Note.2	≤±1%@Full Load,240VAC
	Output LF current ripple(<120Hz)	≤±1% @Full Load,240VAC
	Efficiency(Typ.) *Note.3	≥86%
Dimming	Dimmable	YES
	Dimming mode	DALI II, Push
	Dimming current range	1%~100%
Protection	Over Load Protection	105-150% Protection type: Auto Resume
	Over Voltage Protection	> 25.2VDC Protection type: Auto Resume
	Short circuit Protection	Protection type: Auto Resume
	Over Temperature protection	Protection type: Auto Resume
Environment	Operating Temperature	-20°C...+45°C
	tc	85°C
	Storage Temperature	-20°C...+80°C
	Temperature coefficient	±0.03%/°C(0-45°C)
	Life time	> 50,000h@ta=45°C
	Humidity	20%-90%RH
Others	Dimension	340X45X30.5 (LXWXH)mm
Safety & EMC	Safety standards	EN 61347-1; EN61347-2-13; EN62384;
	Withstand voltage	Input-Output : 3750V/5mA/1min
	Isolation resistance	Input-Output : ≥4MΩ@500VDC
	EMI	EN55015; EN61000-3-2 Class C; EN61000-3-3
	EMS	EN 61547; EN 61000-4-2; EN 61000-4-5 —1000V;

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Note	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 capacitor.
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■Model list

Model number	Input			Output		
	Voltage (VAC)	Max.Current (A)	Frequency (Hz)	Constant voltage (V)	Normal working current (A)	Max. Power(W)
LS-80-24 DALI2-DT8 LI	220-240	3.33	50/60	24	0-3.33	79.9

■Push dimming operation

Action	Action duration	LED status	Fuction	
			Brightness button	Color temperature button
Short push one time	<0.5s	On	Turn off LED	Turn off LED
		Off	Turn on LED at last brightness and color temperature level or saved brightness and color temperature level if already saved.	Turn on LED at last brightness and color temperature level or saved brightness and color temperature level if already saved.
Short push twice	<0.5s	On	Save current brightness and color temperature level.LED flash twice(Max-Min-Max-Min) indicate that driver saved the level successfully.	Save current brightness and color temperature level.LED flash twice(Max-Min-Max-Min) indicate that driver saved the level successfully.
		Off	Delete saved level and dim the brightness and color temperature to be factory default value-100% brightness and (neutral)4000K color temperature.	Delete saved level and dim the brightness and color temperature to be factory default value-100% brightness and (neutral) 4000K color temperature.
Long push	0.5s-15s	On	Dimming brightness up or down.Every long push changes the dimming direction	Dimming color temperature cool or warm.Every long push changes the dimming direction
		Off	Turn on LED and dim brightness from min. to max.	Turn on LED at min. brightness level and dim color temperature from cool(6500K) to warm(2700K).

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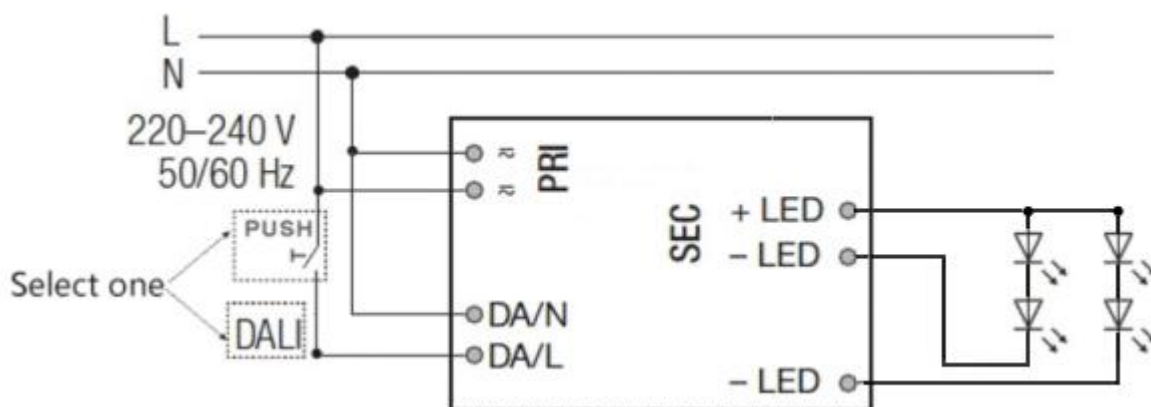
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Long push	>120s	On & off	Enter Corridor mode — LED keep max. brightness for 2mins. The brightness will turn to be 10% within 32s if no action during 2mins max. brightness. Color temperature is at last off level or turn to be saved level if already saved	Enter Corridor mode — LED keep max. brightness for 2mins. The brightness will turn to be 10% within 32s if no action during 2mins max. brightness. Color temperature is at last off level or turn to be saved level if already saved
Short push five times	<3s	Corridor mode	Quit Corridor mode	Quit Corridor mode

Note:

1. The factory default brightness is 100%, color temperature is 4000K.
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.
4. Sync: Long push to ensure all LEDs to be on and then short push one time to turn off. Then Long push Color temperature button to sync all LEDs.

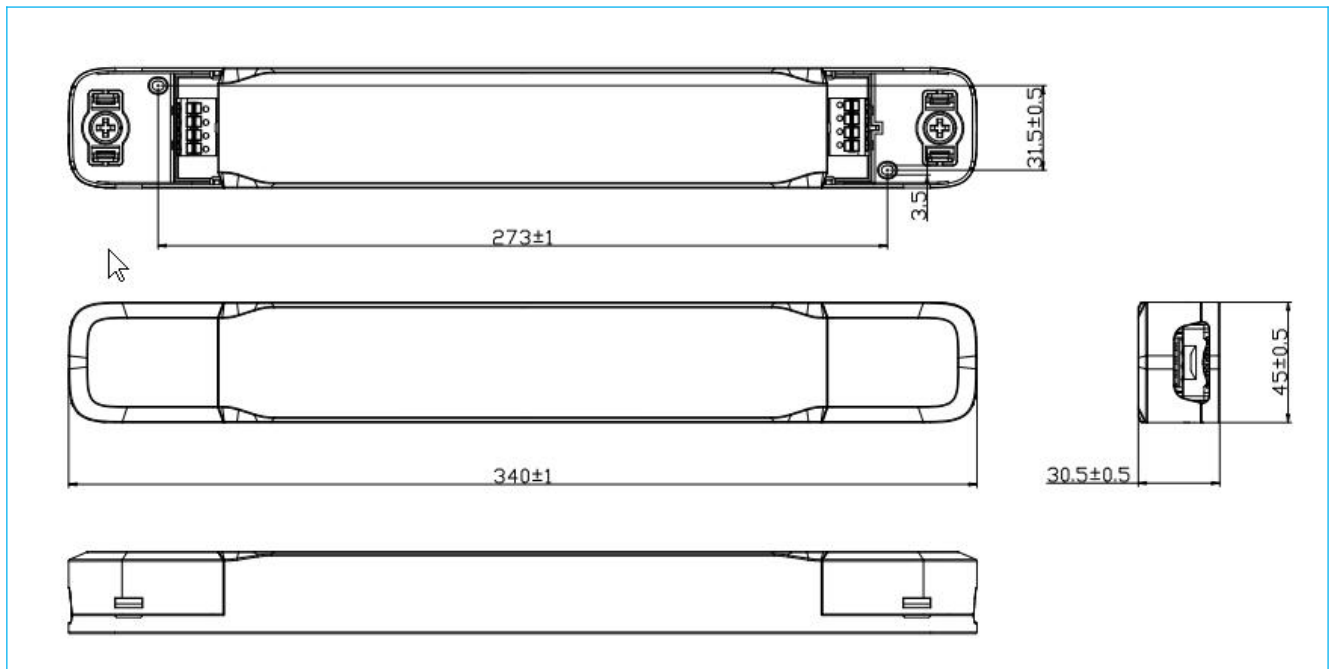
■Wiring diagram



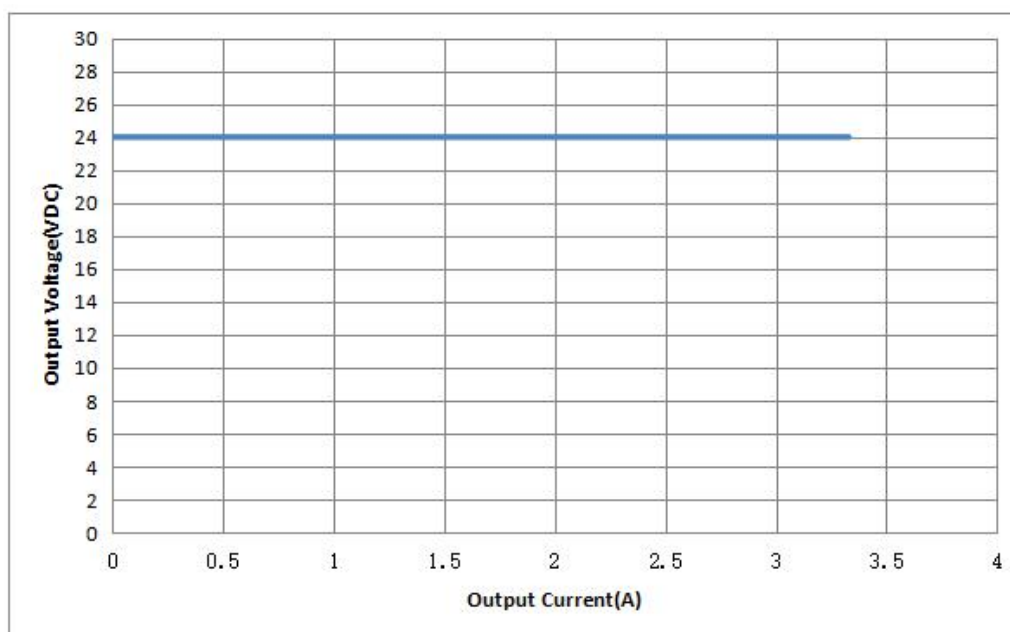
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■2D diagram



■Operating window



— Operating window 100%