# DALI

## DALI Dimming LED Driver (Constant Current)

- Support DALI-2, Push DIM dimming mode.
- In accordance with DALI standard protocol IEC 62386-102, IEC 62386-207 and in compliance with DALI products from other international incorporation.
- PW/M digital dimming, standard DALI logarithmic dimming curve.
- DALI address will be automatically assigned by DALI master, 1 DALI address.
- Universal AC input / Full range, High PF, High efficiency, Flicker Free.
- Standby power input<0.5W, meets the requirements of ERP certification.
- Multi-current & wide voltage, suitable for different power LEDs.
- Over-heat / Over-load / Short circuit protection, recover automatically.
- Class II design, SELV safety ultra-low voltage.
- Suitable for indoor LED lighting application.
- 5 Year, 50,000hr warranty.



















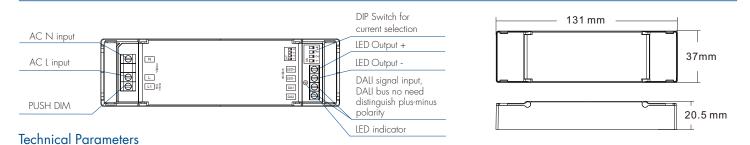




## **Applications**

- Suitable for downlight, spotlight and decorative applications.
- Office / Commercial / Domestic Lighting, Hotels, Classrooms, Warehouse, Health care, Retail and Display.
- Use for retrofit upgrades & new luminaire designs.

## Mechanical Structures and Installations



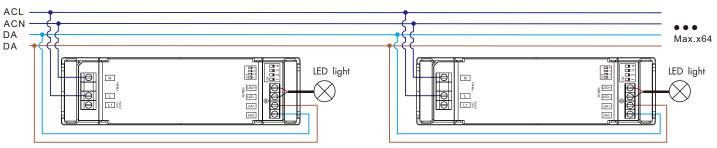
	Output Voltage	10-42VDC
Output	Max Output Voltage	48VDC
	Output Current	100-700mA
	Output Power	Max.12W
	Dimming Range	0~100%, dimming depth:0.1%
	PWM Frequency	3600Hz
	Current Accuracy	100mA gear ± 10%, the rest of the gear ± 5%
	Ripple & Noise	<5%(Maximum current non dimming state)
Input	Input Voltage Range	100~240VAC
	Frequency Range	50/60Hz
	Efficiency(TYP)	>80% (350mA at full load)
	Input Current	≤0.15A/115VAC, ≤0.08A/230VAC
	Power Factor	>0.95/115VAC, >0.9/230VAC
	THD	<12% / 230VAC(at full load)
	Anti Surge	L-N:1.5KV
	Inrush Current	Cold start8A, 135us duration(50% Ipeak) / 230VAC
	Leakage Current	< 0.6mA/230VAC
	Standby Power/No Load Power	<0.5W(DIMMING OFF)
D: : 1 . (	DALI dimming	Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA
Dimming Interface	Push DIM dimming	Voltage range: 100-240V 47/63Hz
Protection	Over Load Power	Current decrease or Hiccup, recovers automatically after fault condition is removed
	Short Circuit	Output shortcircuit, intermittently shut down output; Long time shortcircuit, the system will completely shut down the LED output, you need to manually power on restart activation
	Over Temperature	Current decrease when PCB temp>100°C, recovers automatically after fault condition is removed
Environment	Woking Temperature	-20°C~50°C
	T-case Max	80°C
	Working Humidity	20%~90%RH, non-condensing
	Storage Temp/Humidity	-40°C~80°C, 10%~95%RH
	Temperature Coefficient	±0.03%/°C (0-50%)
	Vibration Resistance	10-500Hz, 2G, 6min/cycle, X,Y,Zaxes/2min
Safety&EMC	Security Specifications	CE-IVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62493:2015
	Withstand Voltage	I/PO/P: 3750VAC
	Insulation Resistance	I/P-O/P: 100M/500VDC/25° <b>C</b> /70%RHΩ
	EMC Emission	CE-EMC:EN55015,EN61000-3-2,EN61000-3-3
	EMC Immunity	CEEMC: EN61000-4:2,3,4,5thunderbolt1KVJ,6,11
	Certications	CE, DALI 2.0



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Output Voltage	9-42V	9-42V	9-42V	9-42V	9-40V	9-34V	9-30V	9-26V	9-24V	9-22V	9-20V	9-18V	9-1 <i>7</i> V
Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
Output Power	0.9-4.2W	1.35-6.3W	1.8-8.4W	2.25-10.5W	2. <i>7</i> -12W	3.15-11.9W	2.4-12W	3.6-11.7W	4.05-12W	3.3-12W	4.5-12W	4.95-11.7W	5.4.9W

## Wiring Diagram

## 1. DALI dimming connection



## DALI dimming mode

After installation according to the wiring diagram of DALI dimming application,

the dimming power supply receives any DALI command to enter the DALI dimming operating mode.

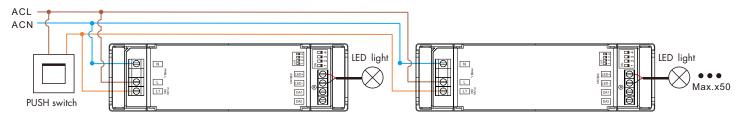
#### Power-on level

When the driver is in DALI-dimming mode, the factory default level after each power-on is the brightest. (The recommended setting for the default factory power-on level of the DALI-2 driver is the brightest in the DALI-2 standard.)

The power-on level can be set through the DALI configuration tool or DALI application controller during installation, and can be set to memory or fixed any brightness (such as off, darkest, 30%, 50% etc.).

The dimming curve can be selected by DALI configuration. The default is logarithmic dimming curve.

#### 2. Push DIM dimming application



## Switch to the push DIM dimming mode

After installation according to the wiring diagram of pushDIM dimming application, short press the push button 1 times, the driver will automatically switch to the push DIM dimming mode.

#### Push Dim Function

The provided Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switchs.

### • Short press:

Turn on or off light.

## • Long press (1-6s):

Press and hold to step-less dimming. With every other long press, the light level goes to the opposite direction.

## • Dimming memory:

Light returns to the previous dimming level when switched off and on again, even at power failure.

#### • Synchronization:

If more than one controller are connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the group dim up to 100%.

## Installation note

- 1. This product must be installed and adjusted by a qualified professional.
- 2. This product is non-waterproof. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- 3. LED driver should keep a certain distance from the heating stuff(such as the luminaries radiator).
  - The installation interval between the product and the product is recommended to be 15cm, so as not to affect the service life due to poor heat dissipation.
- 4. Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
- 5. If a fault occurs, please do not attempt to fix the product by yourself. If you have any questions, please contact us in time.