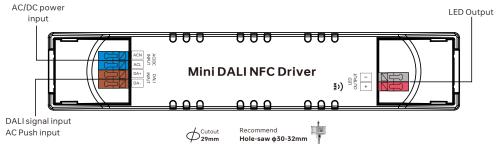
10W Mini DALI DT6 NFC LED Driver(Constant Current)



Important: Read All Instructions Prior to Installation

Function introduction

Wire Gauge: Input: 0.75-1.5mm² Output: 0.5-0.75mm²



Product Data

	LED Channel	1					
	DC Voltage	3-42V					
	Current	100-450mA via NFC tool; Min.current gear lower to 0.1mA, default 350mA					
Output	Current Accuracy	±3%(±1%@Certain full load) @ full load					
	Rated Power	Max.10W					
	Voltage Range	220-240VAC/220-240VDC					
	Absolute Voltage Range	196-264VAC/196-264VDC					
	Frequency Range	0/50/60Hz					
	Power Factor (Typ.)	> 0.93 @ 230VAC Full load					
	Total Harmonic Distortion (Typ.)	THD≤ 15% (@ full load / 230VAC)					
Input	Efficiency (Typ.)	> 75% @ 230VAC full load					
	AC Current (Typ.)	0.1A Max.					
	Inrush Current (Typ.)	Max. 3.18A at 230VAC; 22µs duration					
	Leakage Current	< 5mA /230VAC					
	Standby Power Consumption	< 0.5W					
	Anti Surge	L-N:1KV					
	Dimming Interface	DALI Device Type 6 (DALI consumption < 2mA)/ AC Push					
Control	Dimming Range	0.01%-100%@ Max current					
Control	Dimming Method	Amplitude/CCR dimming					
	Dimming Curve	Linear/ Logarithmic optional					

Protection	Short Circuit	Yes, remove the fault conditions and re-power the device.				
	Over Current	Yes, remove the fault conditions and re-power the device.				
	Over Temperature	Yes, remove the fault conditions and re-power the device.				
	Working Temp.	-25℃ ~ +45℃				
	Max. Case Temp.	Tc=85℃				
Environment	Working Humidity	10% ~ 95% RH non-condensing				
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH				
	Safety Standards	EN61347-1, EN61347-2-13, GB/T 19510.1-2023, GB/T 19510.213-2023				
	Withstand Voltage	I/P-O/P: 3.75KVAC				
Safety & EMC	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH				
2	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3, GB 17625.1-2022, GB/T 17743-2021				
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11				
046-242	MTBF	191350H, MIL-HDBK-217F @ 230VAC full load and 25°C ambient temperature				
Others	Dimension	122x23x21mm (L*W*H)				
	Warranty	5 Years				

- In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2
- · Built-in DALI-2 interface, DALI DT6 device
- Dimmable LED driver. Max. output power 10W
- 100-450mA current selectable via NFC program tool. Min.current gear lower to 0.1mA
- DALI Address/Group/Scene setting via NFC program tool.
- Class II power supply, full isolated plastic case
- High power factor and efficiency
- To switch and dim single color LED lighting luminaries
- Amplitude/CCR dimming, smooth and deep dimming
- Compatible with universal DALI masters that support DT6 commands
- DALI-251/252/253 Enabled, DALI data inside
- Error report function
- LED Driver has Class A sound ratings per Energy-star regulated
- IP20 rating, suitable for indoor LED lighting applications
- 5 years warranty

Safety & Warnings

- DO NOT install with power applied to the device.
- DO NOT expose the device to moisture.

Operation

With DALI master

1. DALI Address

1 DALI address for 1 channels output are assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

With NFC Programming devices

Note

- 1) Do wiring according to the wiring diagram and power on the DALI system.
- 2) Recommend setting parameters without power-on the DALI devices.
- 2) Please make sure your mobile phone has NFC function and enable it.

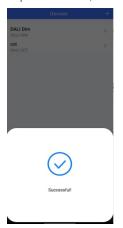
Working with "SR NFC Tool" APP

Step 1: Download the APP (searching "SR NFC Tool" from App Store and Google Play).



- Note: 1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet .
 - 2. Please Make sure that the "NFC position" is matched.
 - 3. Please do not power on the device before setting.
 - 4. If you can't download "SR NFC Tool". Please contact with us.

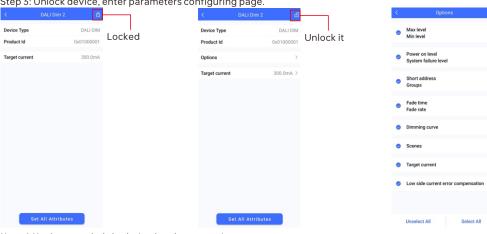
Step 2: Add device, and name it as you wish.







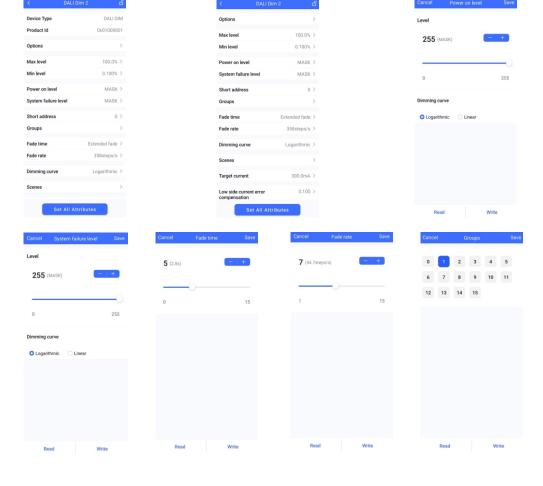
Step 3: Unlock device, enter parameters configuring page.



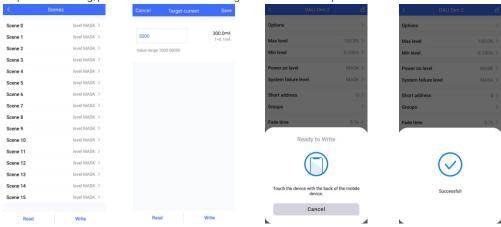
Note: 1. You have to unlock the device then do some settings

2. Only when the corresponding function is selected, the function interface will be displayed.

Step 4: Few parameter interface, you can choose the setting based on your requirements.



Step 5: After setting, please save the selected configuration via NFC and power on the device.

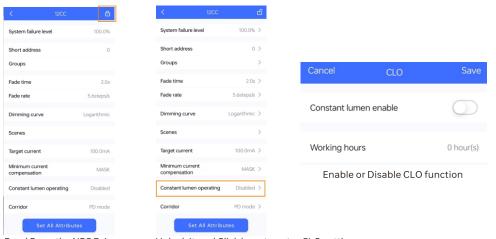


Tips

- 1. NFC function doesn't require any power driver.
- 2. Many functions can be configured by NFC. Kindly check your desired functions.
- 3. All of our DALI drivers are in the best performance within our DALI master/ DALI IoT gateway.

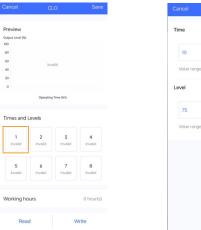
CLO and CD FUNCTION INSTRUCTION

1. Open APP, and Find the CLO function



Read From the NFC Driver Unlock it, and Click here to enter CLO settings

2.Enter CLO Setting homepage







Enable CLO function

Click "1", and set its time and level

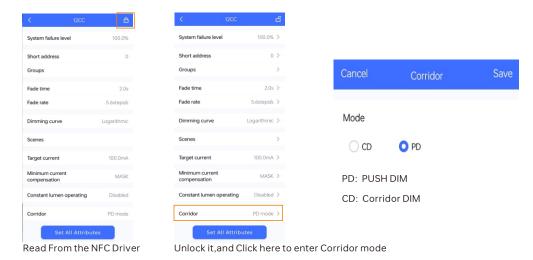
Set your desired time and levels.

Graphic display

Tips:

Working hours: Ability to calculate the working hours of a single driver.

3.Corridor dim(CD) function



4.Enter CD Setting homepage







Set your desired time and levels.

Graphic display

Enter CD mode

Tips:

- 1. You should select either CD mode or PD mode, but not both.
- 2. Under CD mode, you can realize it with normal (3rd party) AC sensor.
- 3. Default mode: PD mode.

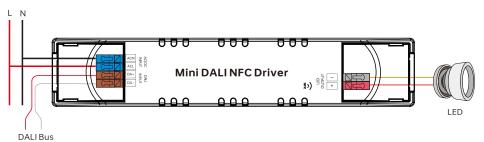
Additional Remarks



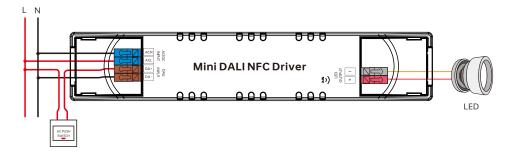
- 1. Please make sure your APP version is 1.0.10 or higher.
- 2. Please make sure NFC driver's firmware is available with CLO / CD functions.

Wiring Diagram

- 1. With DALI bus
- 1.1 With single color LED luminarie



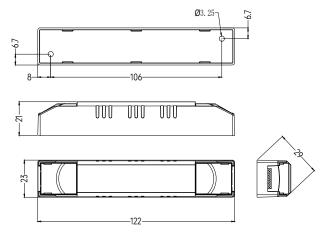
2. With PUSH dimmer



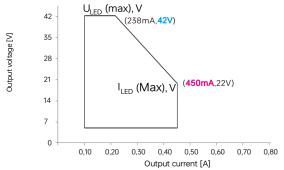
AC Push Function

- 1) Click the button to switch ON/OFF
- 2) Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.

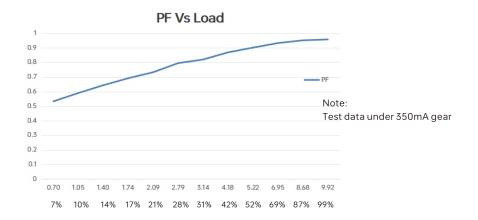
Product Dimension



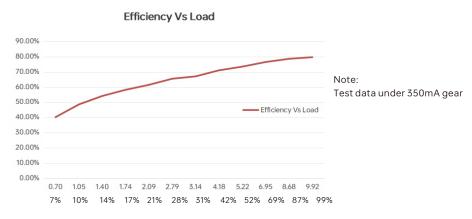
Operating window



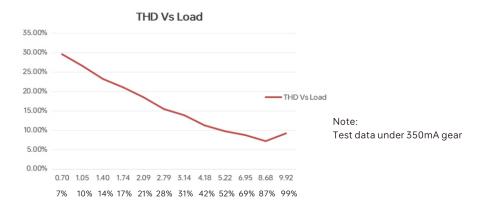
Driver Performance



Driver Performance



Driver Performance



Expected Lifetime

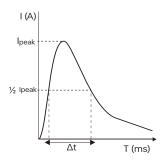
Module Number	Output current	Та	30 °C	40 °C	45 °C	
SRPM-2305N-10CC100-45	50 100 – 450 mA	Тс	65 °C	77 °C	85 °C	
SRPM-2309N-10CCT100-4	50 100 – 450 mA	Lifetime	> 100,000 h	> 80,000 h	> 40,000 h	

The LED driver is designed for a lifetime stated above under reference conditions .

The relation of tc to ta temperature depends also on the luminaire design.

MCB Load Quantity

Module Number	lpeak	Twidth	Max.quantity of LED Driver per MCB B10 B13 B16 B20 B25 C10 C13 C16 C20 C25 D10 D13 D16 D20 D25														
SRPM-2305N-10CC100-450	3.18A	22µs	86	111	137	171	214	100	130	160	200	250	114	149	183	229	286
SRPM-2309N-10CCT100-450	3.18A	22µs	86	111	137	171	214	100	130	160	200	250	114	149	183	229	286



Note:

- 1. Those MCB parameters are based on ABB S200 series circuit breakers.
- 2.For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
- 3.Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.
- 4. When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.
- 5. Type C MCB's are strongly recommended to use with LED lighting

Update log

Date	Version	Update content	Update by
2024-8-8	V1.0	Initial Version	Romeo

Note: Subject to change without notice. Please contact us if you have any questions.