# 100W DALI DT8 NFC Enabled LED Driver(Constant Current)

DALI2 · cULus LISTED · RoHS COMPLIANT · RIPPLE FREE · SELV

**Important:** *Read All Instructions Prior to Installation*

## Function introduction

DALI signal input
AC Push input



| | |
|---|---|
| GND | |
| DA | PUSH DIM |
| DA | NO ——○DA |
| ACN/ | L ○——○DA |
| DC- | |
| ACL/ | |
| DC+ | |

DALI DIMMABLE DRIVER

NFC

| |
|---|
| CW- |
| CW+ |
| WW- |
| WW+ |

0.5-1.5mm²
6-7mm

LED Output

AC/DC power input

## Product Data

| | | |
|---|---|---|
| Output | LED Channel | 2 |
| | DC Voltage | 10-54V |
| | Current | 1100-2200mA via NFC setting; Min.current gear lower to 0.1mA |
| | Current Accuracy | ±3%@ full load |
| | Rated Power | Max. 100W |
| Input | Voltage Range | 120-277VAC |
| | Frequency Range | 50/60Hz |
| | Power Factor (Typ.) | > 0.98 @ 230VAC Full load |
| | Total Harmonic Distortion | THD ≤ 6% (@ full load / 230VAC) |
| | Efficiency (Typ.) | > 92% @ 230VAC full load |
| | AC Current (Typ.) | 0.6A @ 230VAC |
| | Inrush Current (Typ.) | Max. 25.69A at 230VAC; 645μs duration |
| | Leakage Current | < 5mA /230VAC |
| | Standby Power Consumption | < 0.5W |
| | Anti Surge | L-N:2.5KV |
| Control | Dimming Interface | DALI Device Type 8 (DALI consumption < 2mA)/ AC Push |
| | Dimming Range | 0.01%-100%@ Max current |
| | Dimming Method | Amplitude/CCR dimming |
| | Dimming Curve | Linear/ Logarithmic optional |

| | | |
|---|---|---|
| Protection | Short Circuit | Yes, recovers automatically after fault condition is removed |
| | Over Current | Yes, recovers automatically after fault condition is removed |
| | Over Temperature | Yes, recovers automatically after temperature drop |
| Environment | Working Temp. | -25℃ ~ +60℃ |
| | Max. Case Temp. | TC=90℃ |
| | Working Humidity | 10% ~ 95% RH non-condensing |
| | Storage Temp. & Humidity | -40℃ ~ +80℃, 10% ~ 95% RH |
| Safety & EMC | Safety Standards | EN61347-1, EN61347-2-13 |
| | Withstand Voltage | I/P-O/P: 3.75KVAC |
| | Isolation Resistance | I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH |
| | EMC Emission | En55015, EN61000-3-2, EN61000-3-3 |
| | EMC Immunity | En61547, EN61000-4-2,3,4,5,6,8,11 |
| Others | MTBF | 191350H, MIL-HDBK-217F @ 230VAC full load and 25℃ ambient temperature |
| | Dimension | 355x30x21mm (L*W*H) |
| | Warranty | 5 Years |

• In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2, IEC 62386-209
• Built-in DALI-2 interface, DALI DT8 device
• Dimmable LED driver with linear metal housing. Max. output power 100W
• 1100-2200mA 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, isolated design
• High power factor and efficiency
• To switch and dim LED lighting luminaries, enable tunable white control
• Amplitude/CCR dimming, smooth and deep dimming
• Compatible with universal DALI masters that support DT8 commands
• DALI-251/252/253 Enabled
• 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 2 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) .
Then open the APP .



Download "SR NFC Tool "

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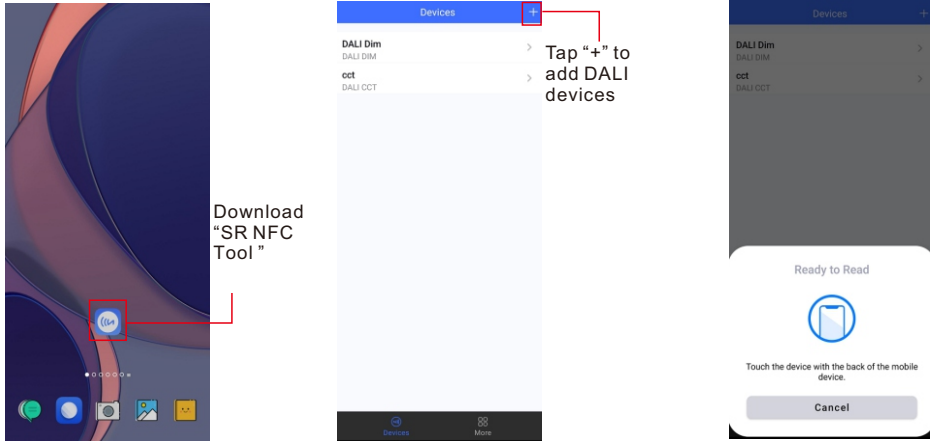
**Note**: 1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet .
2. Please Make sure that the "NFC position" is matched.
3. Please do not power on the device before setting.
4. If you can't download "SR NFC Tool". Please contact with us.

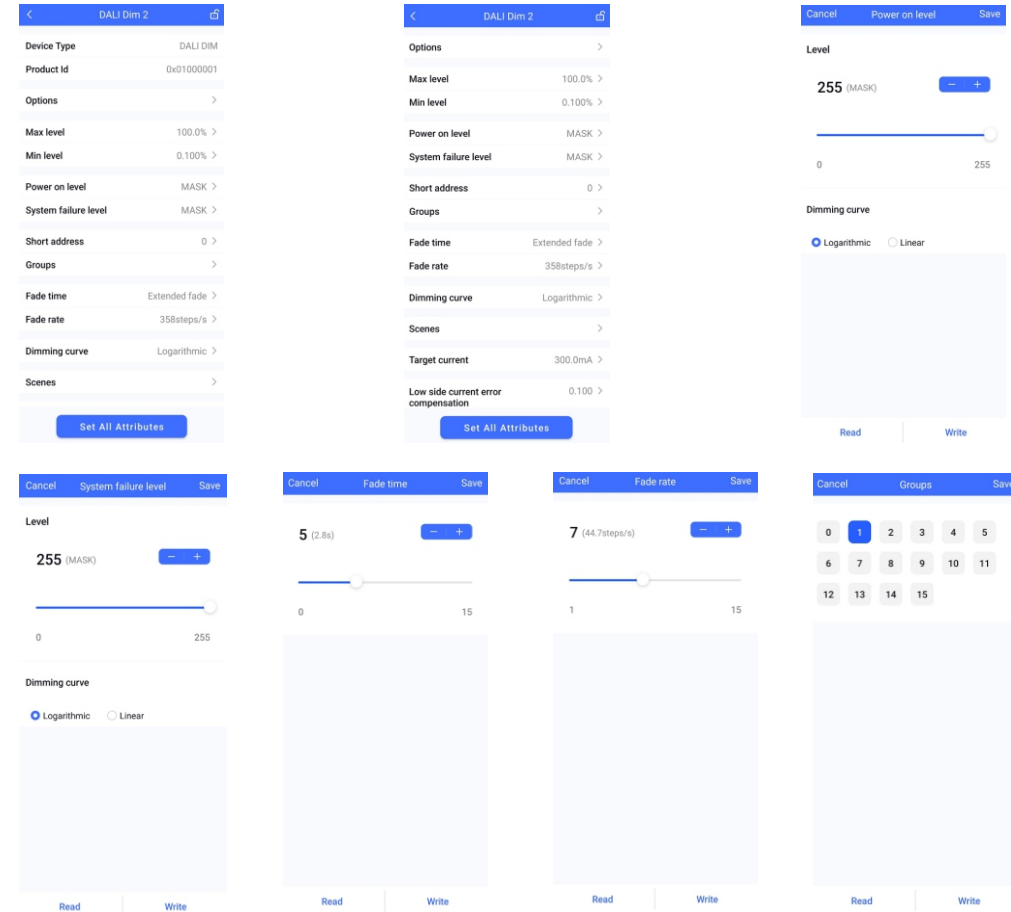**Step 2: Add device, and name it as you wish.**
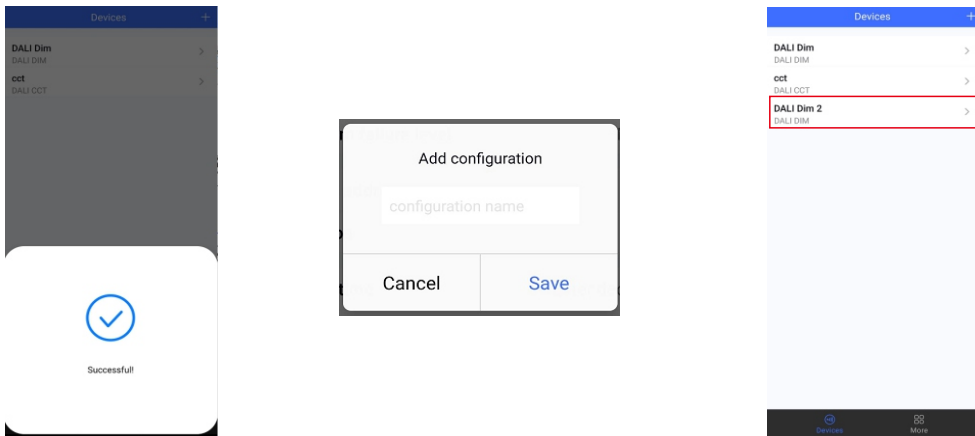


**Step 3: Unlock device, enter parameters configuring page.**

Locked
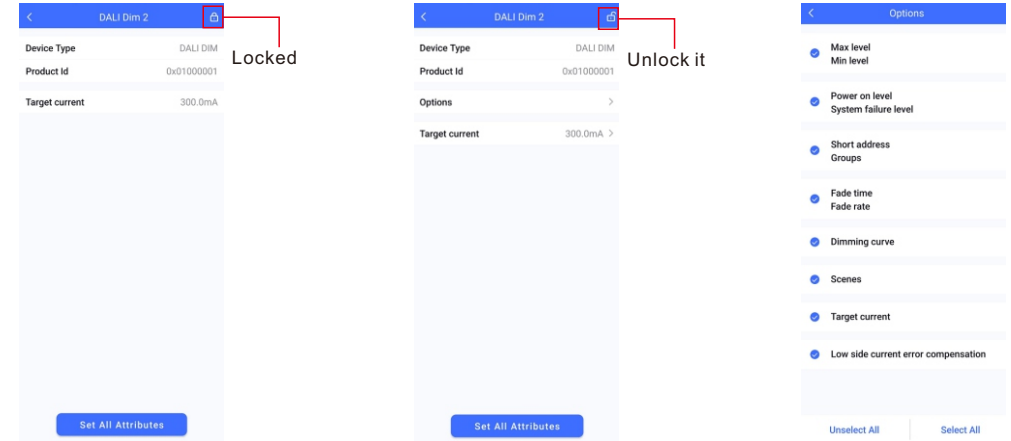
Unlock it



**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.

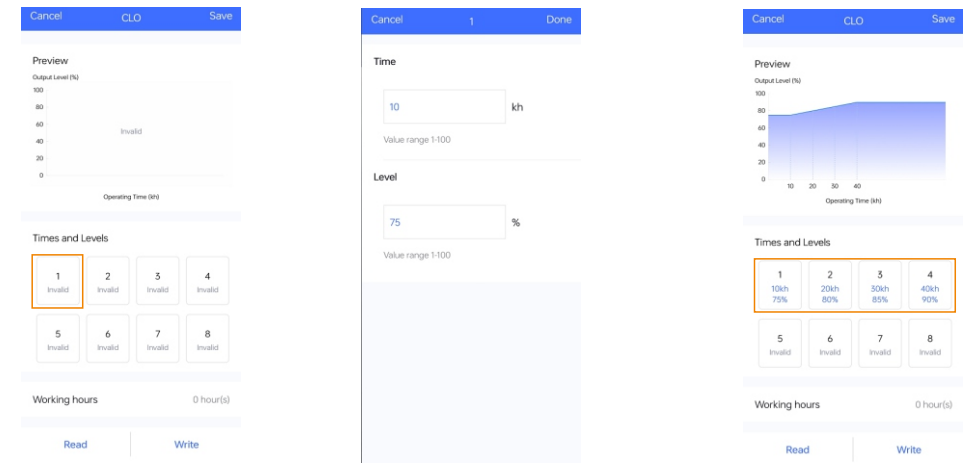**Step 4: Few parameter interface, you can choose the setting based on your requirements.**

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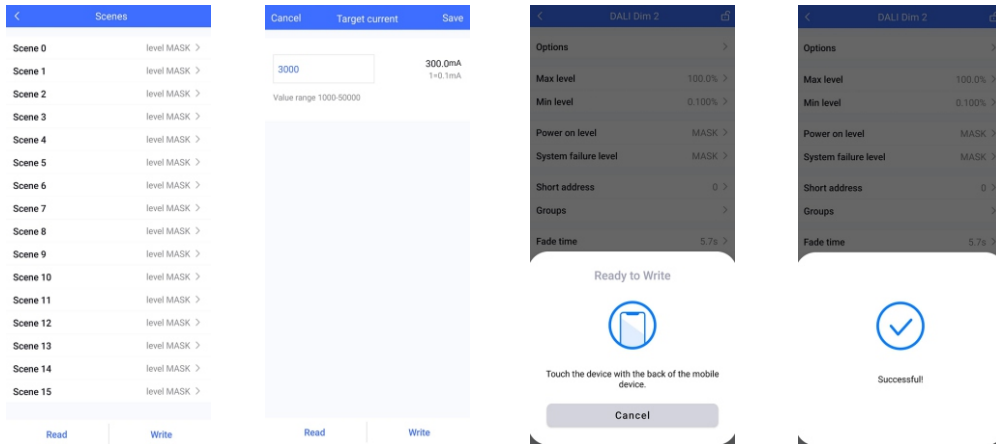


## Tips

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/ gateway.

## CLO FUNCTION INSTRUCTION

### 1.Open APP, and Find the CLO function



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

Enable or Disable CLO function

### 2.Enter CLO Setting homepage



Enable CLO function       Click "1",and set its time and level       Set your desired time and levels.
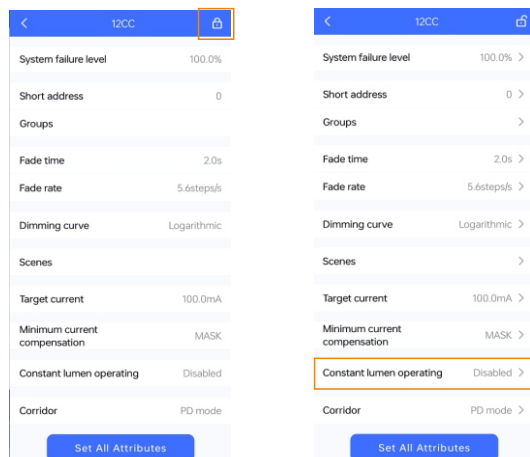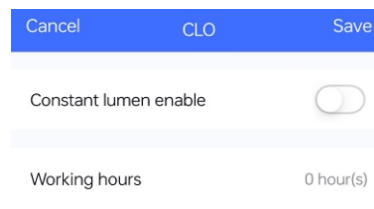Graphic display

**Tips:**

**Working hours : Ability to calculate the working hours of a single driver.**
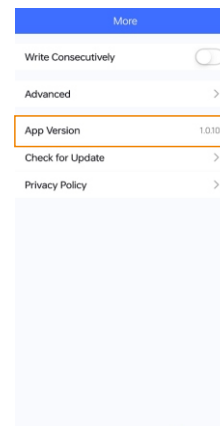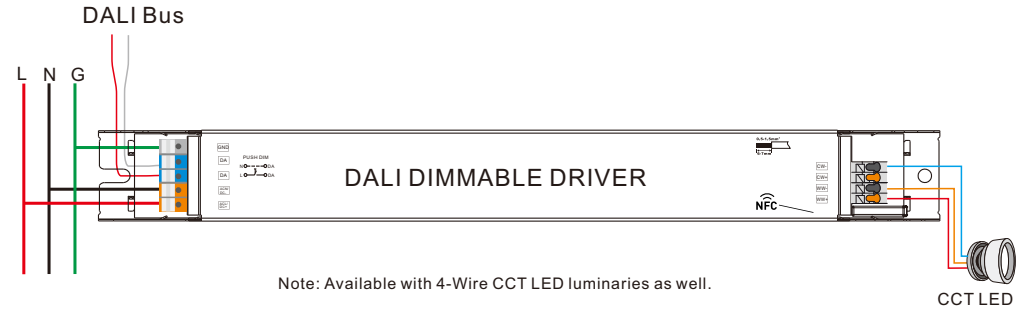
## Additional Remarks



1. Please make sure your APP version is 1.0.10 or higher.

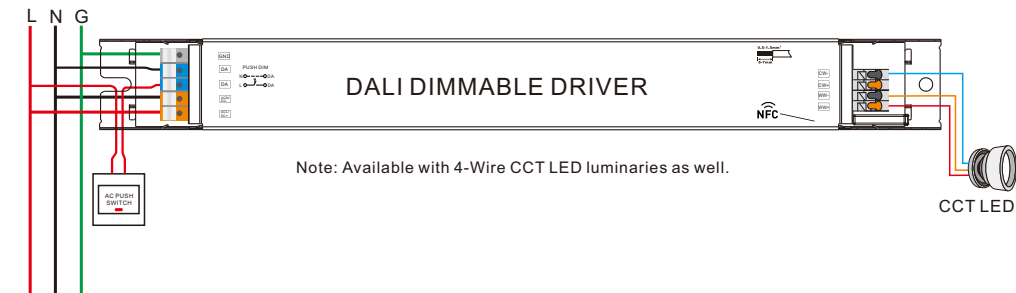2. Please make sure NFC driver's firmware is available with CLO function.

## Wiring Diagram

1. With DALI bus

1.1 With CCT LED luminarie

DALI Bus

L  N  G

DALI DIMMABLE DRIVER

NFC

Note: Available with 4-Wire CCT LED luminaries as well.

CCT LED

2. With PUSH dimmer

L  N  G

DALI DIMMABLE DRIVER

NFC

Note: Available with 4-Wire CCT LED luminaries as well.

AC PUSH SWITCH

CCT LED

## 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%.

3) Double click the button to switch between brightness mode and color temperature mode.

4) Press and hold down the button to change color temperature under color temperature mode.

## Product Dimension

345

21

7

4.2

ø4.2

30

4.2

345

355