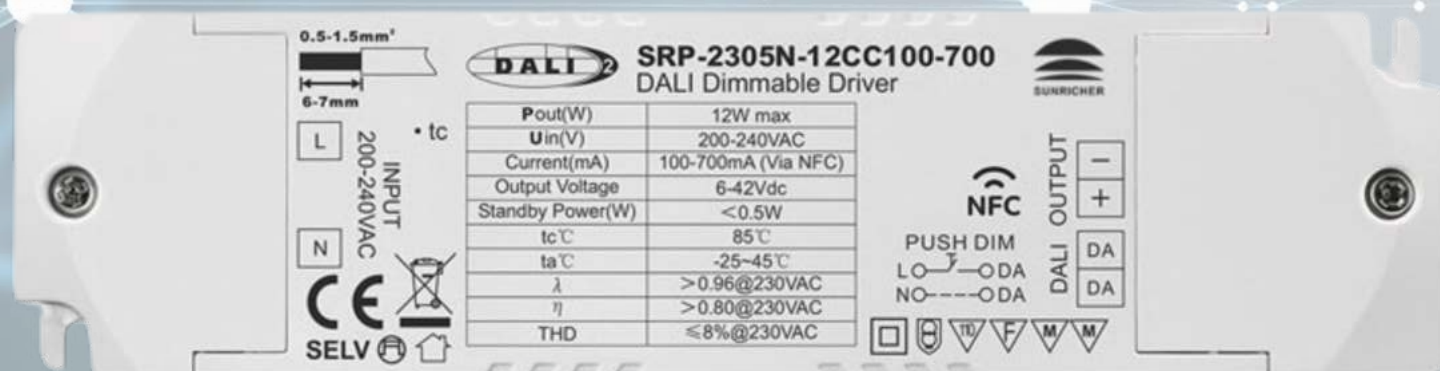


SUNRICHER



5 YEAR
WARRANTY

12W Compact Constant Current LED Driver with DALI-2 NFC

Features of the:
SRP-2305N-12CC100-700



Constant
Current



PushDimming
(VAC)



DALI 2 Protocol



Low level
dimming with
0.1 Dimming



NFC
Compatible



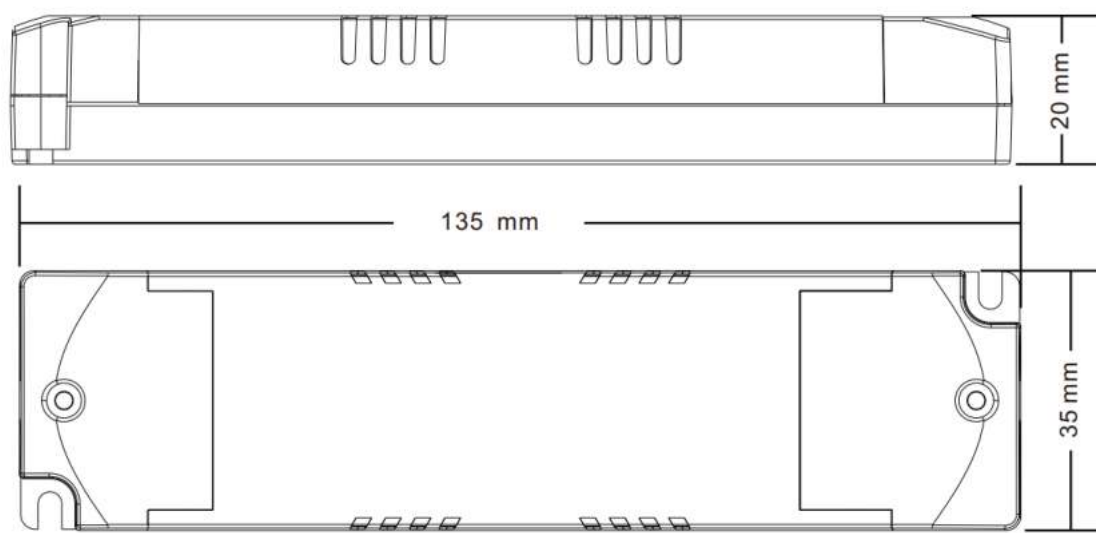
Class II Power
Supply

CE IP20 SELV

Specification

| Model | | SRP-2305N-12CC100-700 |
|--------------|---|--|
| Output | DC Voltage Range | 6 ~ 42V |
| | Rated current | 100-700mA via NFC setting; Min.current gear lower to 0.1mA |
| | Current Accuracy | ±3%(±1%@Certain full load) @ full load |
| | Rated power | 12W |
| Input | Voltage Range | 220-240VAC |
| | Frequency range | 50/60Hz |
| | Power Factor (Typ.) | > 0.96@230VAC Full load |
| | Total Harmonic Distortion | THD ≤ 8% (@ full load / 230VAC) |
| | Efficiency (Typ.) | >80% @ 230VAC full load |
| | AC Current (Max) | 0.1A @ 230VAC |
| | Inrush Current (Typ.) | Max. 3.96A at 230VAC; 90µs duration |
| | Leakage current | < 5mA/230VAC |
| | Standby Power Consumption | <0.5W |
| Control | Anti Surge | L-N: 2KV |
| | Dimming Interface | DALI Device Type 6 (DALI consumption < 2mA)/ AC Push |
| | Dimming Range | 0.01%-100%@ Max current |
| | Dimming Method | Amplitude/CCR dimming |
| Protection | Dimming Curve | Linear/ Logarithmic optional |
| | 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°C ~ +45°C |
| | Max. Case Temp | TC=85°C (Ta="45°C") |
| | Working humidity | 10%-95% RH (non-condensing) |
| | Storage TEMP humidity | 40°C ~ +80°C, 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: 100MΩ/500VDC/25°C/70% RH |
| | EMC emissions | EN55015, EN61000-3-2, EN61000-3-3 |
| | EMC Immunity | EN61547, EN61000-4-2,3,4,5,6,8,11 |
| Others | Size | 135*35*20 mm (L*W*H) |
| | Weight | 0.15kgs |
| | Warranty | 5 Years |
| Notes | 1. DO NOT install with power applied to the device. 2. DO NOT expose the device to moisture. | |

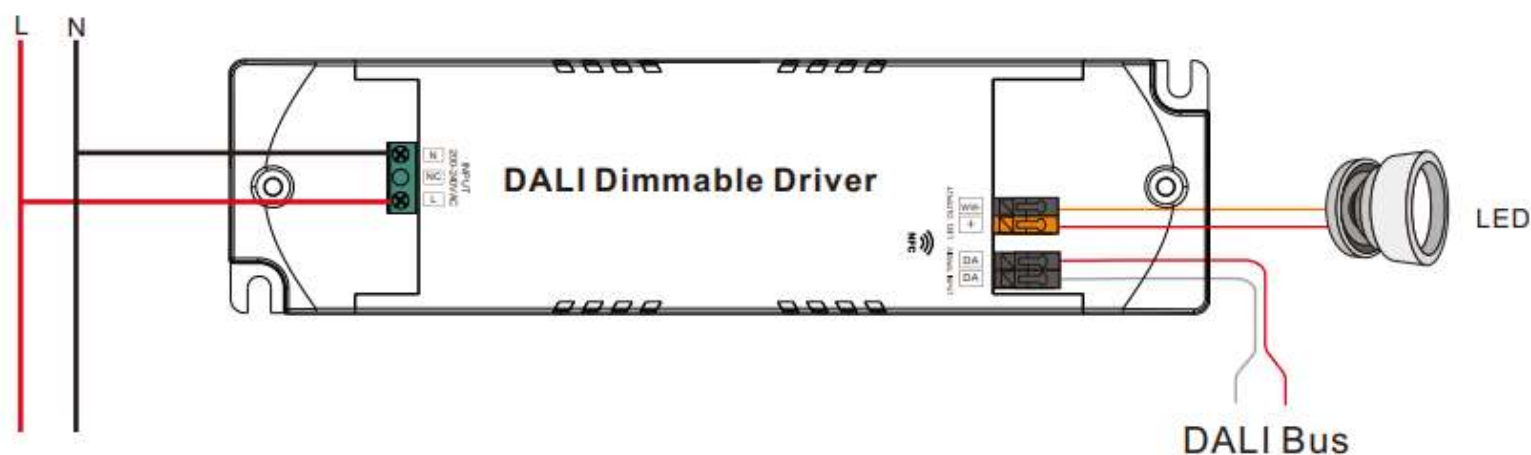
Mechanical Specification



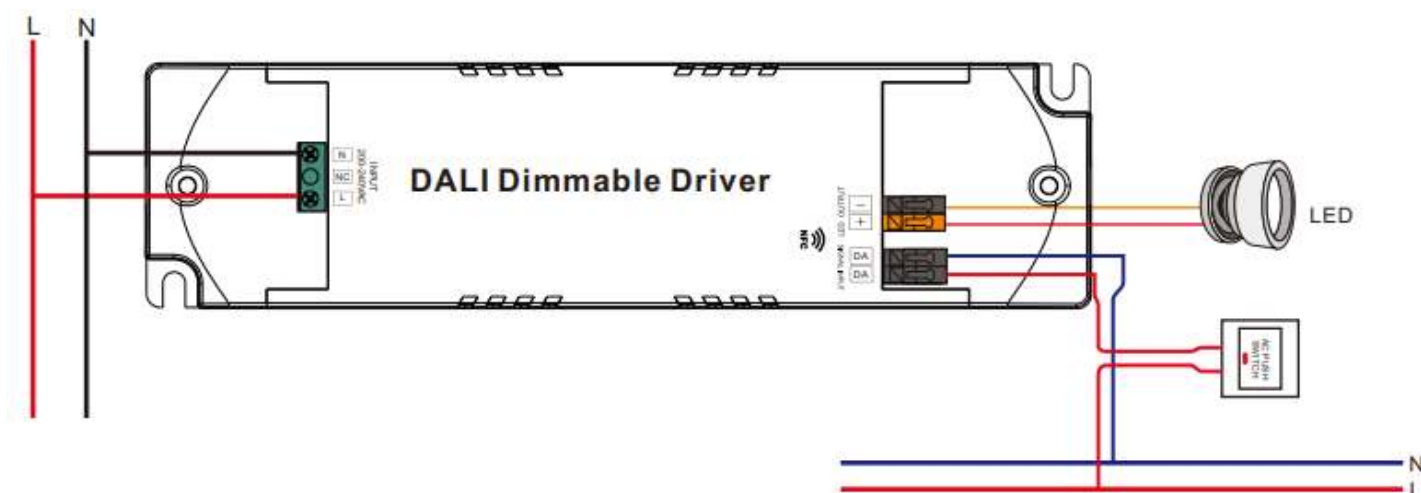
- Input Voltage Terminal: 2 pole terminal (same as the diagram)
- DALI or PUSH Dim Terminals: 2 pole terminals
- Output LED's: 2 pole terminal block: Positive (+), Negative (-)

Wiring Diagrams & Dimming

DALI



Push Dimming



Operation

With DALI Master:

1. DALI Address

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

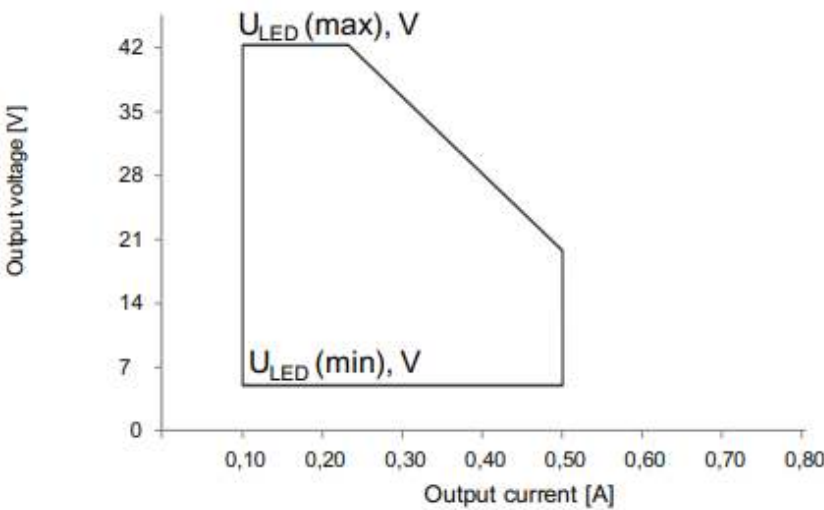
With NFC Programming Devices:

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
3. Please make sure your mobile phone has NFC function and enable it

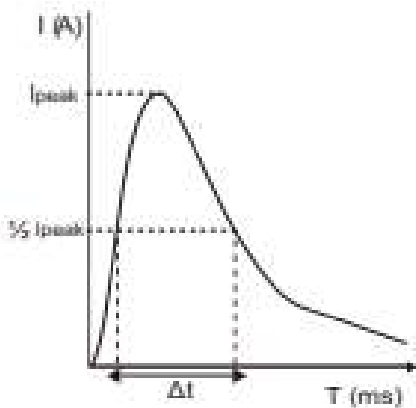
Wiring Diagrams & Dimming

Operating Window



MCB Load Quality

| Module Number | I _{peak} | T _{width} | Max. quantity of LED Driver per MCB | | | | | | | | | | | | | | |
|------------------------|-------------------|--------------------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | B10 | B13 | B16 | B20 | B25 | C10 | C13 | C16 | C20 | C25 | D10 | D13 | D16 | D20 | D25 |
| SRP-2305N-10CC100-500 | 4.32A | 80µs | 34 | 45 | 55 | 69 | 86 | 57 | 75 | 92 | 115 | 144 | 80 | 104 | 128 | 160 | 200 |
| SRP-2309N-10CCT100-500 | 4.32A | 80µs | 34 | 45 | 55 | 69 | 86 | 57 | 75 | 92 | 115 | 144 | 80 | 104 | 128 | 160 | 200 |

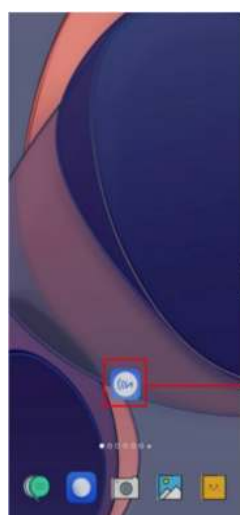


Note:

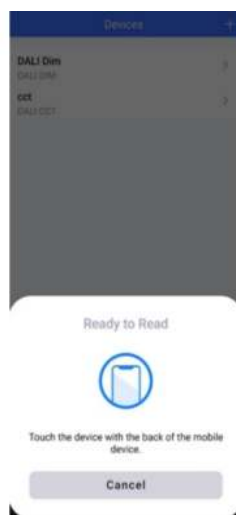
- Those MCB parameters are based on ABB S200 series circuit breakers.
- For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
- Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.
- 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.
- Type C MCB's are strongly recommended to use with LED lighting

Operation - Working with 'SR NFC Tool' App

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



Download
"SR NFC
Tool"



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. Please If you can't download "SR NFC Tool". Please contact with us
5. Please refer to QR code below

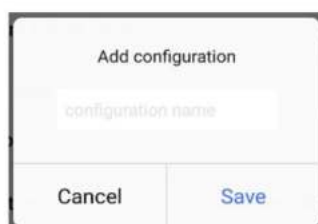
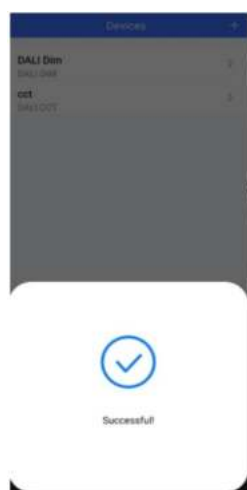
Apple QR Code:



Android QR Code:



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



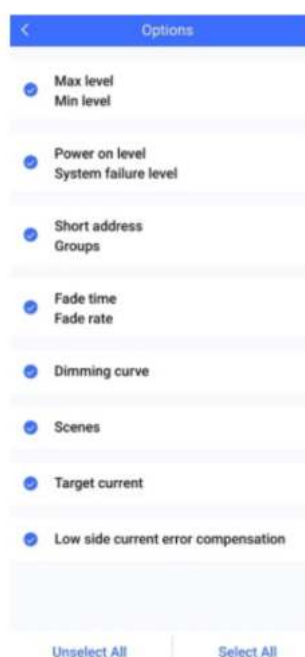
Step 3: Unlock device, enter parameters configuring page.



Locked



Unlock it

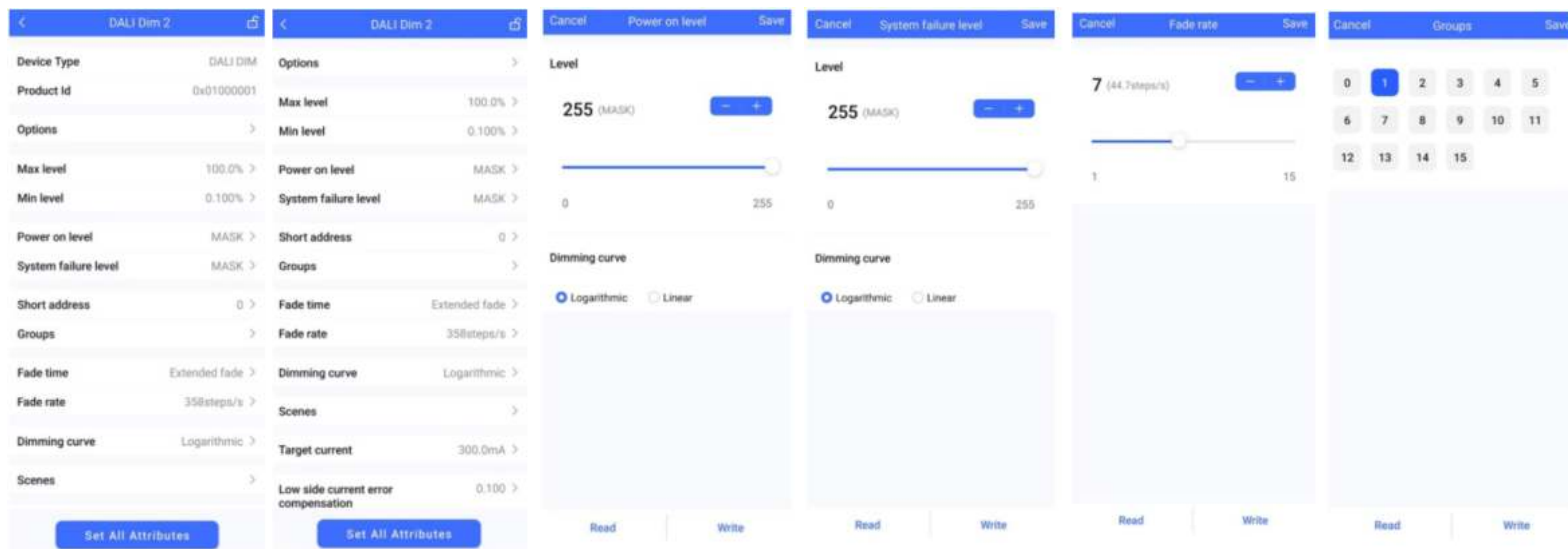


Notes:

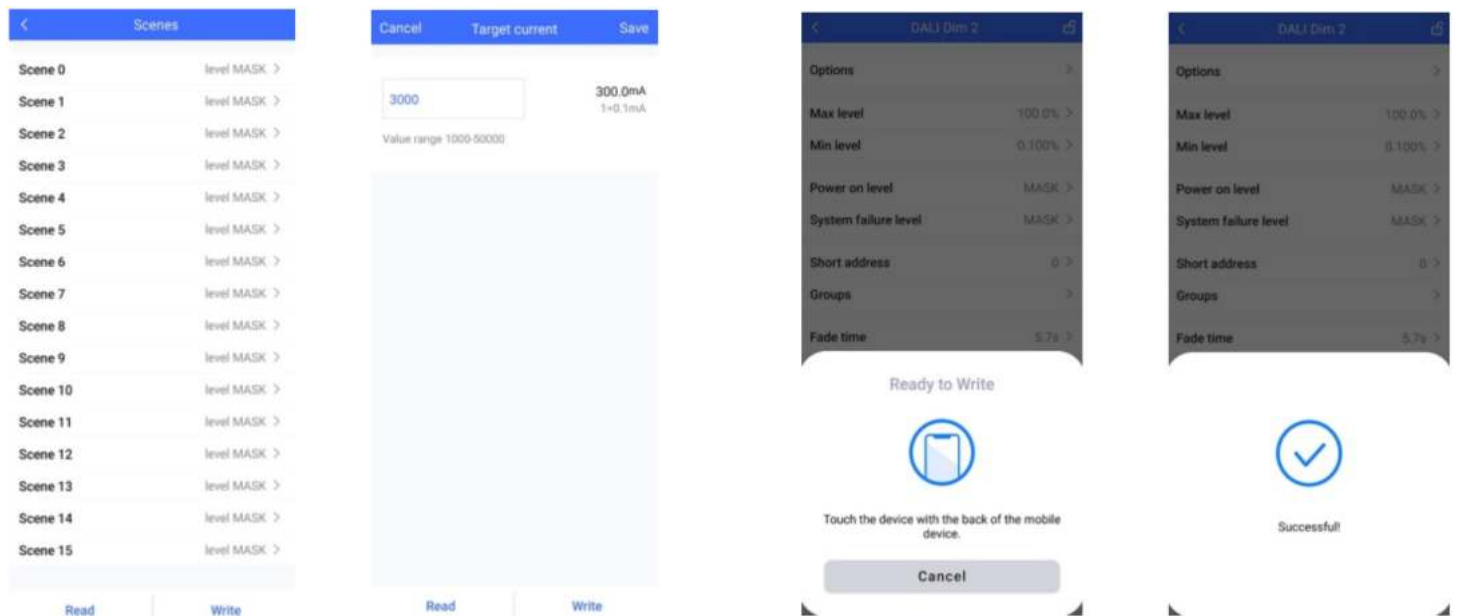
1. You have to unlock the device then do some settings
2. Only when the corresponding function is selected, the function interface will be displayed.

Operation

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

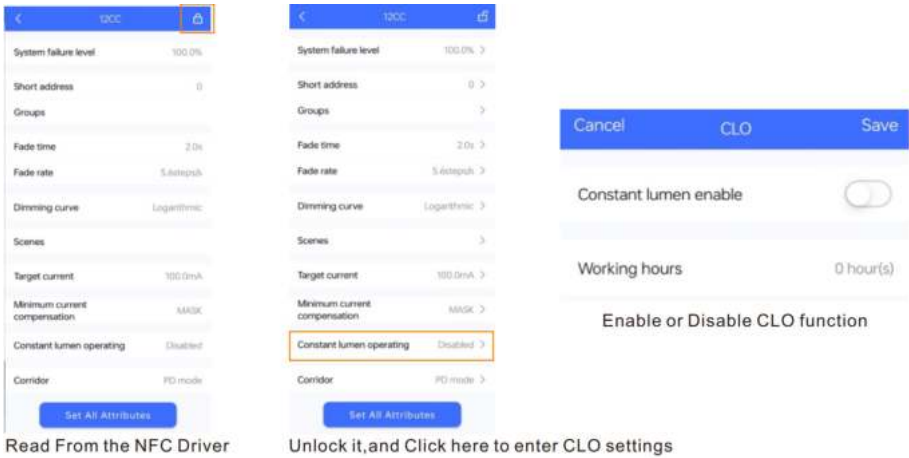


Notes:

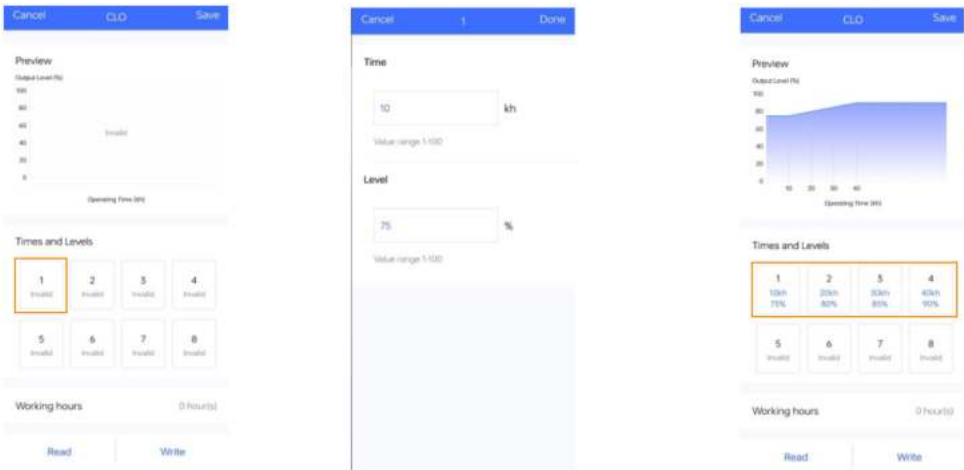
1. NFC function doesn't require any power driver
2. Many functions can be configured by NFC. Kindly check your desired functions.
3. All of our DALI drivers are in the best performance within our DALI master/ gateway

CLO and Corridor DIM(CD) Function Instruction

Step 1: Open APP, and Find the CLO/CD functions



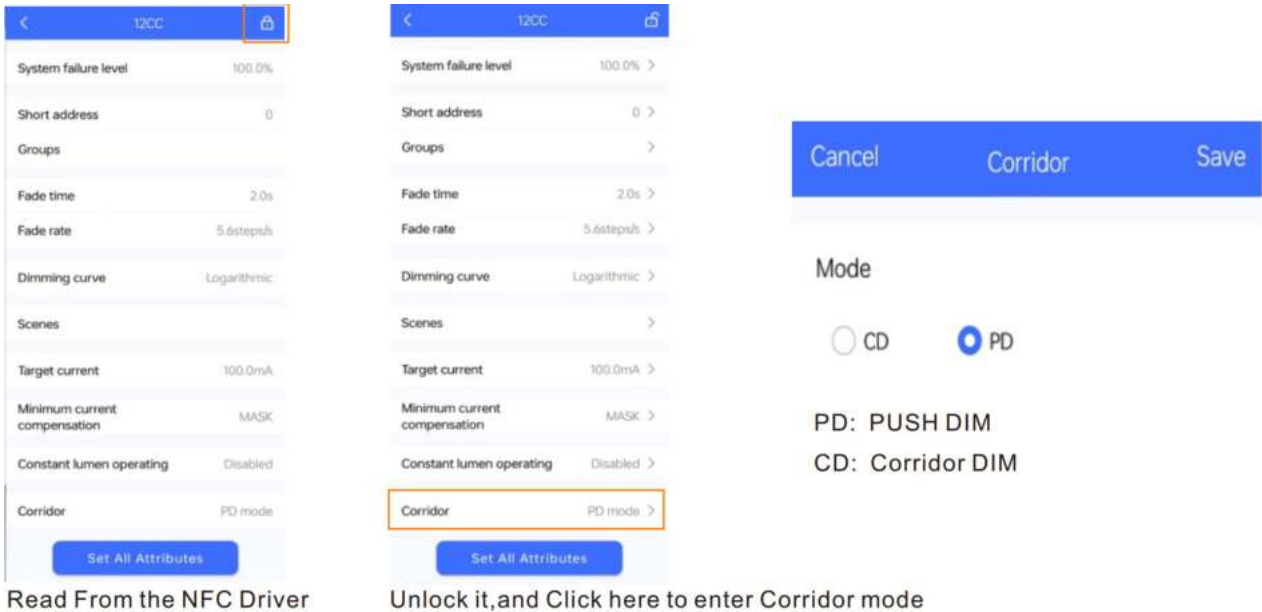
Step 2: Enter CLO Setting homepage



Note:

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

Step 3: Corridor dim(CD) function



Operation

Step 4: Enter CD Setting homepage

Cancel Corridor Save

Mode

☒ CD ☐ PD

Preview

Level (%)

Fade in Occupied Fade out Prolonged Dim to off

Fade in time

5 s

Value range 0-100

Occupied time

Read Write

Cancel Corridor Save

Occupied time

120 s

Value range 0-60,000

Occupied level

100 %

Value range 0-100

Fade out time

5 s

Value range 0-100

Prolonged time

40 s

Read Write

Cancel Corridor Save

Prolonged time

60 s

Value range 0-60,000

☐ Infinite

Prolonged level

20 %

Value range 0-100

Dim to off time

5 s

Value range 0-100

Read Write

Notes:

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.

Additional Information

More

Write Consecutively ☐

Advanced >

App Version 1.0.10

Check for Update >

Privacy Policy >

Configurations More

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