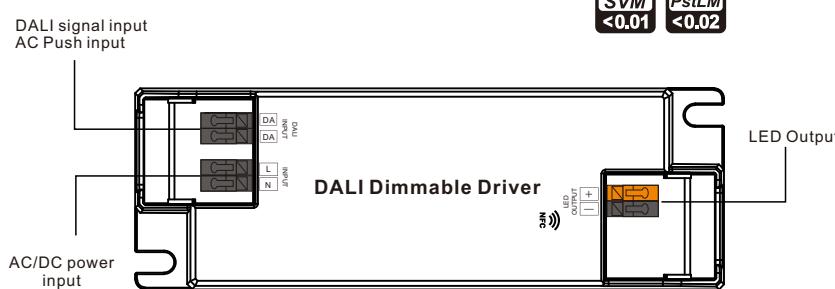


25W DALI DT6 NFC Enabled LED Driver(Constant Current)



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

| | | |
|---------|---------------------------|--|
| Output | LED Channel | 1 |
| | DC Voltage | 6-54V, Max. 60V |
| | Current | 250-700mA via NFC tool; Min.current gear lower to 0.1mA, default 500mA |
| | Current Accuracy | ±3% (±1% @ Certain full load) @ full load |
| | Rated Power | Max. 25W |
| | Voltage Range | 220-240VAC/220-240VDC |
| Input | Absolute Voltage Range | 196-264VAC/196-264VDC |
| | Frequency Range | 0/50/60Hz |
| | Power Factor (Typ.) | > 0.96 @ 230VAC Full load* |
| | Total Harmonic Distortion | THD ≤ 13% (@ full load / 230VAC)* |
| | Efficiency (Typ.) | > 83% @ 230VAC full load* |
| | AC Current (Typ.) | 0.2A Max. |
| | Inrush Current (Typ.) | Max. 5.64A at 230VAC; 72μs duration |
| | Leakage Current | < 5mA / 230VAC |
| | Standby Power Consumption | < 0.5W |
| | Anti Surge | L-N:2KV |
| Control | Dimming Interface | DALI Device Type 6 (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, 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. |
| Environment | Working Temp. | -25°C ~ +45°C |
| | Max. Case Temp. | Tc=85°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, GB/T 19510.1-2023, GB/T 19510.213-2023 |
| | Withstand Voltage | I/P-O/P: 3.75KVAC |
| | Isolation Resistance | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH |
| | 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 |
| Others | MTBF | 191350H, MIL-HDBK-217F @ 230VAC full load and 25°C ambient temperature |
| | Dimension | 120x41x28mm (L*W*H) |
| | Warranty | 5 Years |

*: PF/THD/Eff shall be different per different testing setup and equipment.

- 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 25W
- 250-700mA 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 LED lighting luminaires
- Amplitude/CCR dimming, smooth and deep dimming
- Compatible with universal DALI masters that support DT6 commands
- Error report function
- DALI-251/252/253 Enabled,DALI data inside
- 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 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 .

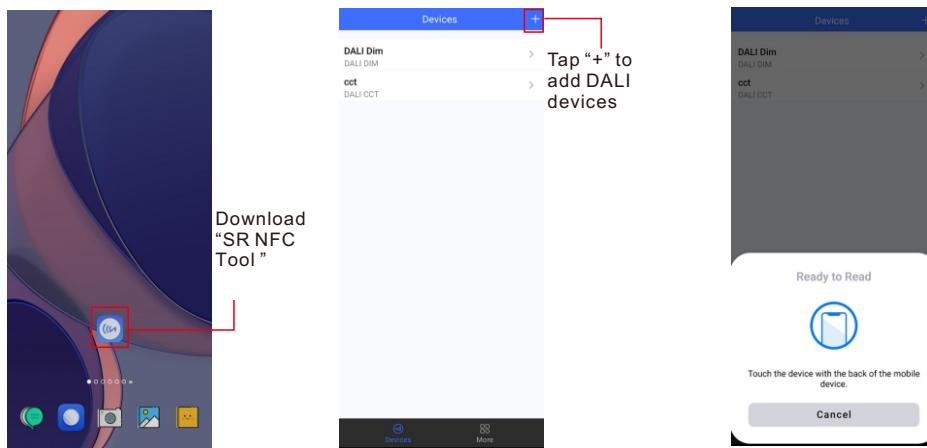
2) Recommend setting parameters without power-on the DALI devices .

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 .



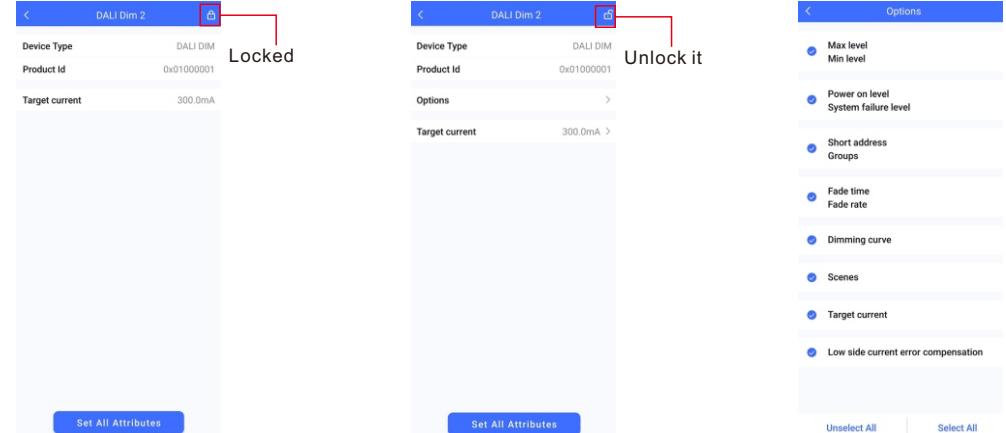
Note: 1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet .

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.



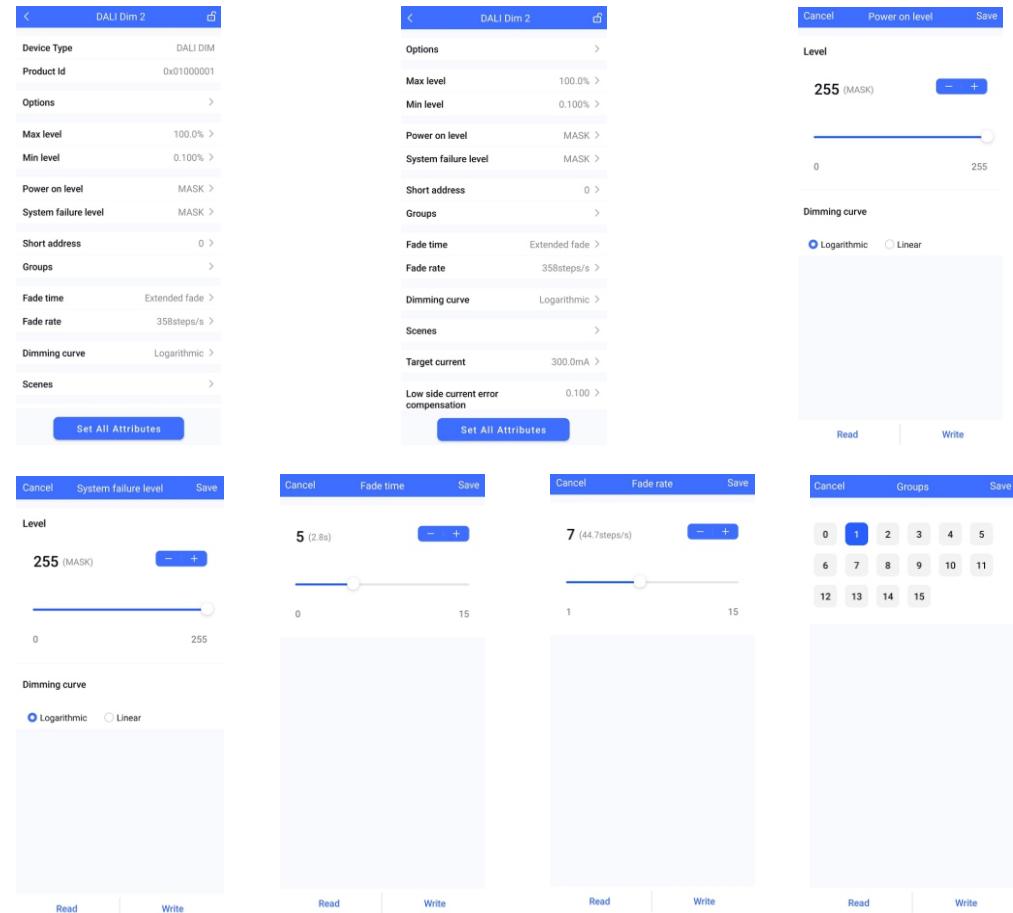
Step 3: Unlock device, enter parameters configuring page.



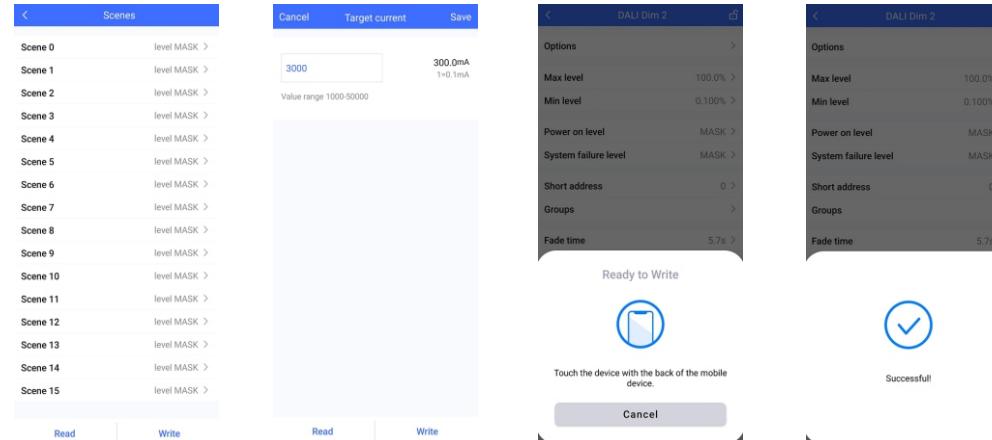
Note: 1. You have to unlock the device then do some settings

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.

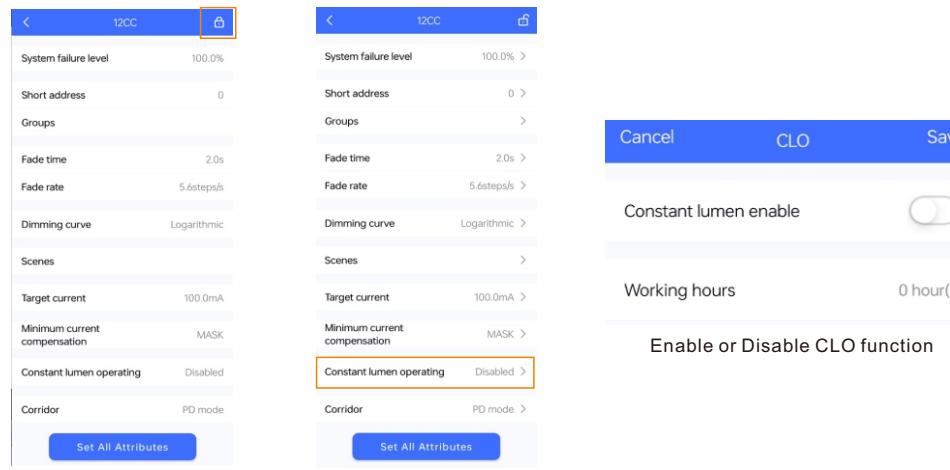


Tips

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/ gateway.

CLO AND CORRIDOR DIM(CD) FUNCTION INSTRUCTION

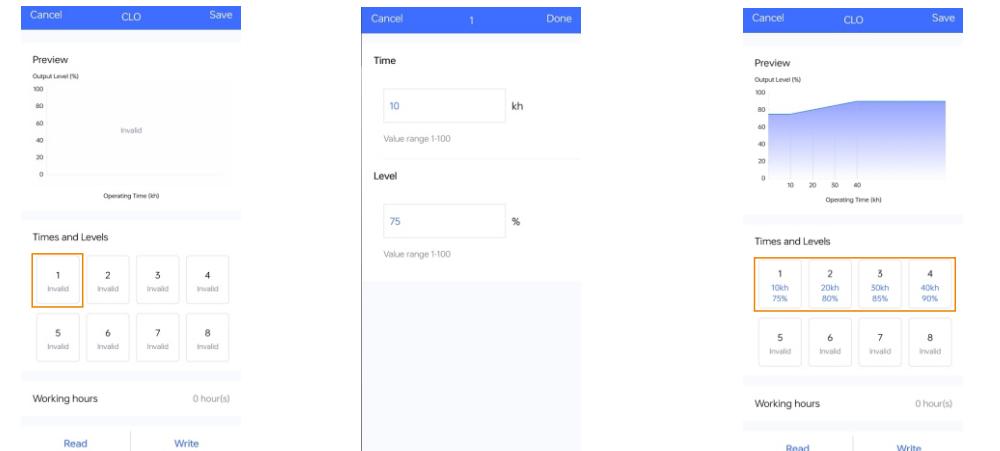
1. Open APP, and Find the CLO/CD functions



Read From the NFC Driver

Unlock it, and Click here to enter CLO settings

2. Enter CLO Setting homepage



Enable CLO function

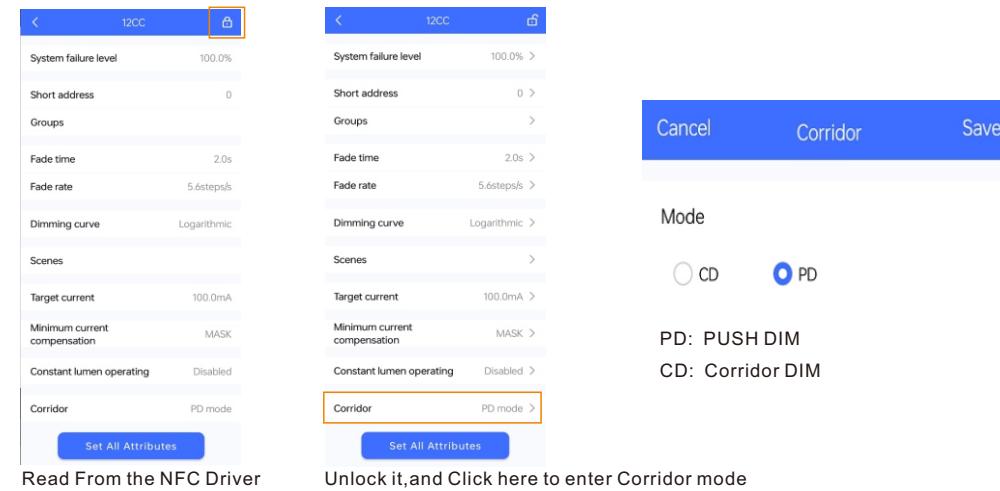
Click "1", and set its time and level

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



PD: PUSH DIM
CD: Corridor DIM

Unlock it, and Click here to enter Corridor mode

1

4. Enter CD Setting homepage

Cancel Corridor Save

Mode CD PD

Preview

Occupied time s Value range 0-60,000

Occupied level % Value range 0-100

Fade out time s Value range 0-100

Prolonged time s Value range 0-100

Read Write

Occupied time s Value range 0-60,000

Prolonged time s Value range 0-100

Read Write

Read Write

Cancel Corridor Save

Occupied time s Value range 0-60,000

Occupied level % Value range 0-100

Fade out time s Value range 0-100

Prolonged time s Value range 0-100

Read Write

Occupied time s Value range 0-60,000

Prolonged time s Value range 0-100

Read Write

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

More

Write Consecutively

Advanced >

App Version 1.0.10

Check for Update >

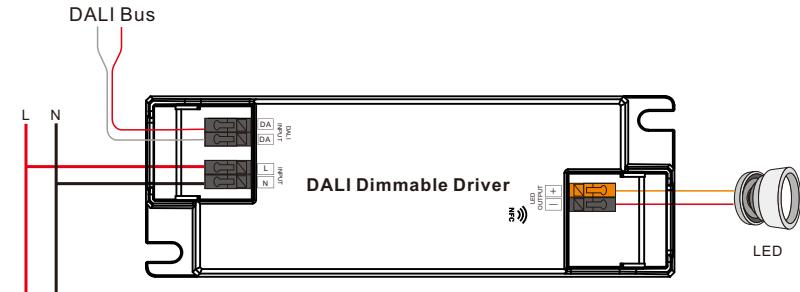
Privacy Policy >

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.

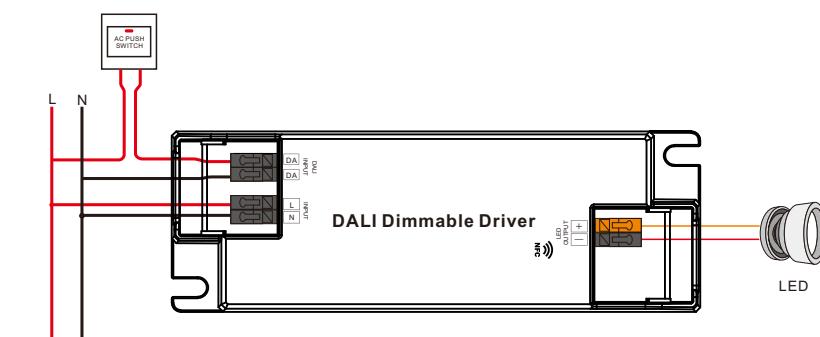
Wiring Diagram

1. With DALI bus

1) With single color LED luminaire



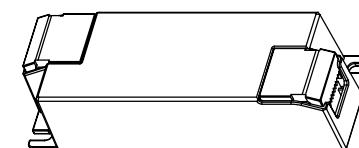
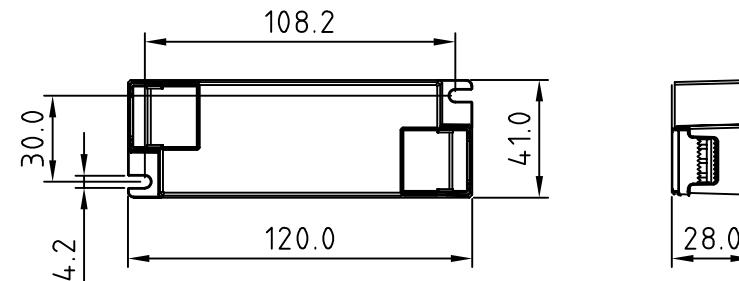
2. With PUSH dimmer



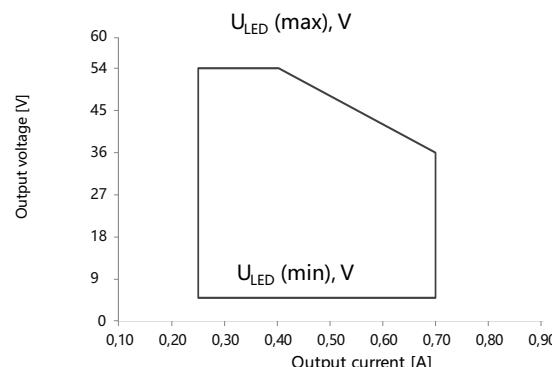
AC Push Function

- 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%.

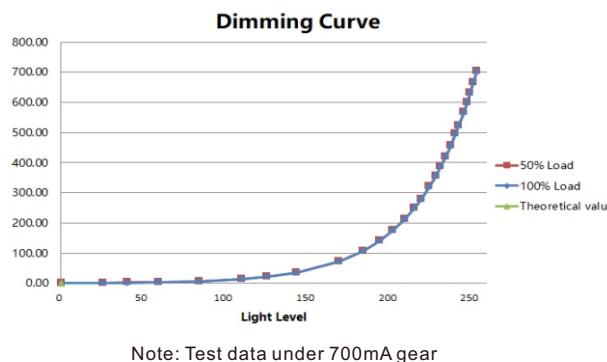
Product Dimension



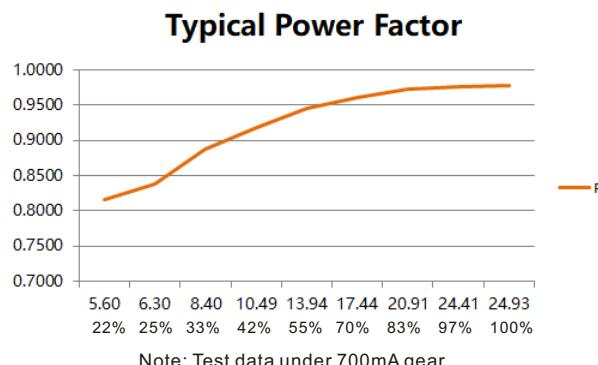
Operating window



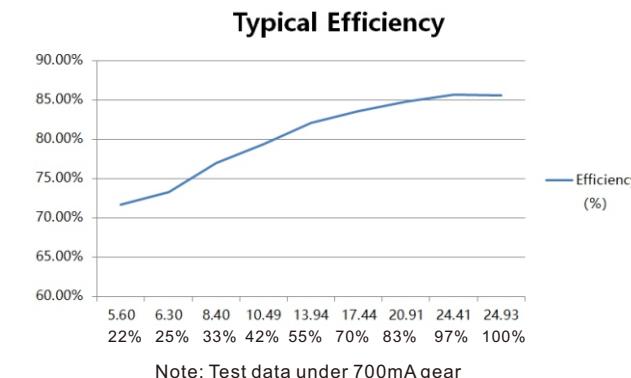
Dimming Curve



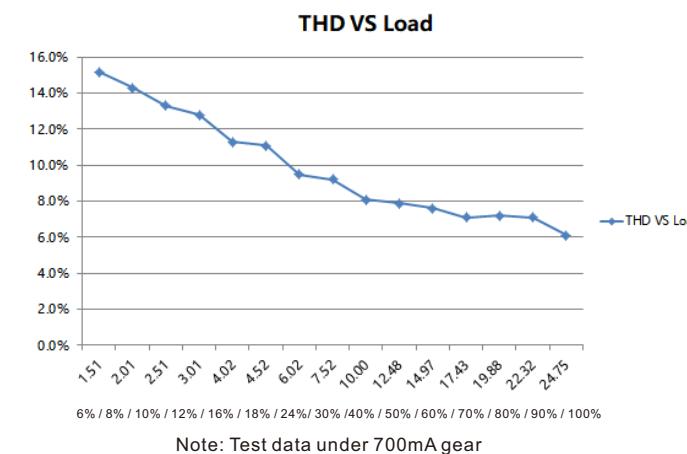
Driver Performance



Driver Performance



Driver Performance



Expected Lifetime

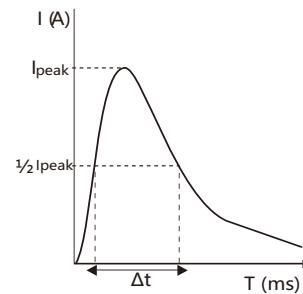
| Module Number | Output current | T _a | 30 °C | 40 °C | 45 °C | ... |
|------------------------|----------------|----------------|-------------|-------------|-------------|------------|
| SRP-2305N-25CC250-700 | 250 – 700 mA | T _c | 50 °C | 60 °C | 70 °C | ... |
| SRP-2309N-25CCT250-700 | 250 – 700 mA | Lifetime | > 100,000 h | > 100,000 h | > 100,000 h | > 40,000 h |

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

The relation of t_c to t_a temperature depends also on the luminaire design.

MCB Load Quantity

| 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-25CC250-700 | 5.64A | 72 μ s | 26 | 34 | 42 | 53 | 66 | 35 | 45 | 56 | 70 | 87 | 40 | 52 | 64 | 80 | 100 |
| SRP-2309N-25CCT250-700 | 5.64A | 72 μ s | 26 | 34 | 42 | 53 | 66 | 35 | 45 | 56 | 70 | 87 | 40 | 52 | 64 | 80 | 100 |



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 |
|-----------|---------|------------------------|-----------|
| 2023-6-17 | V1.4 | Update CLO/CD function | Romeo |

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

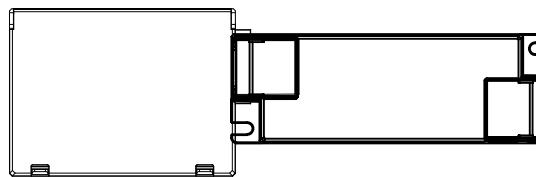
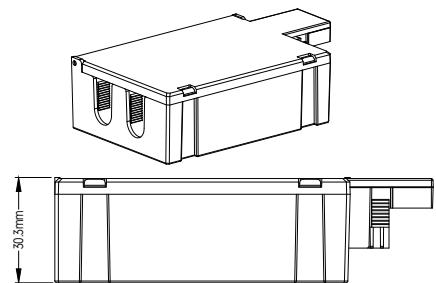
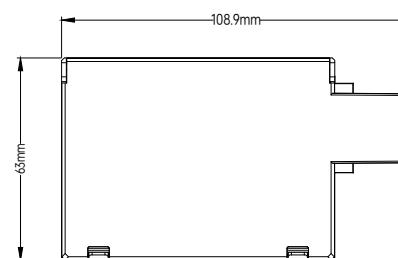
Quick Connector Box (Optional for Order)

SRP-Loopbox-01

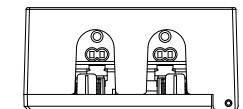
Loop in & Loop Out design

1x DALI Loop in
1x DALI Loop out

Wiring capability:
0.5-2.5mm²(AWG 14-20)

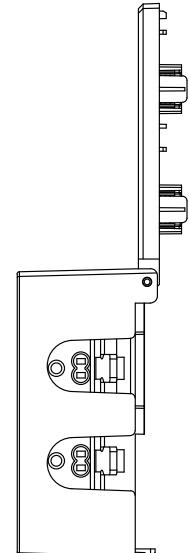
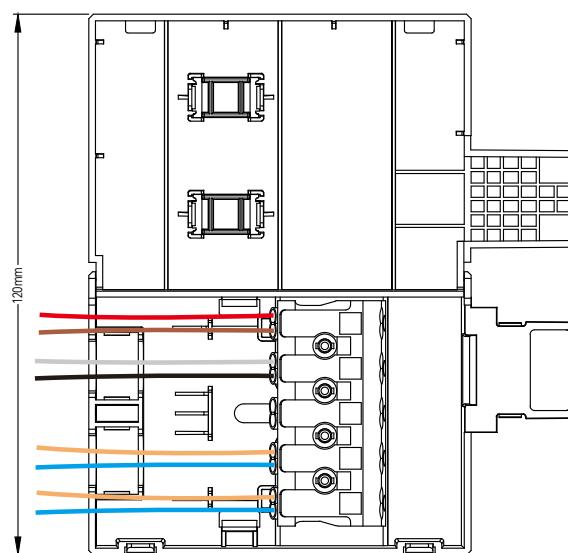


Combined(Top View)



Combined(Side View)

Note: Because the height of the 25W enclosure is slightly lower than that of the Loop box (Due to its own compact design) , it may be necessary to add a gasket on the plane (to maintain balance), not necessarily depending on site conditions.

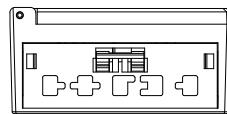
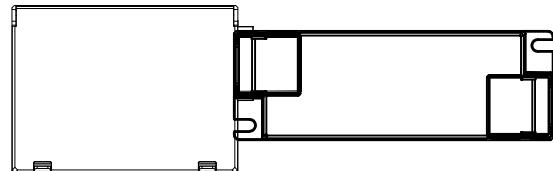
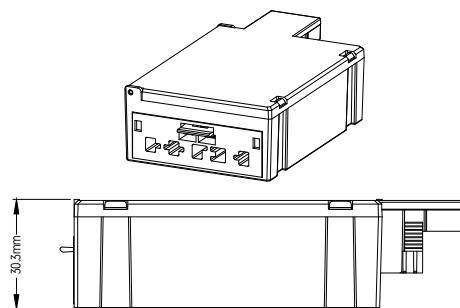
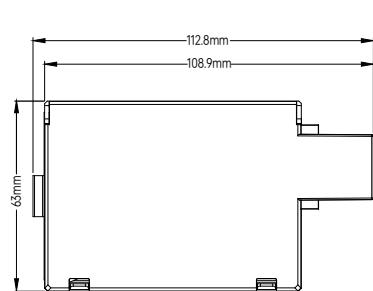


Quick Connector Box (Optional for Order)

SRP-Loopbox-02

Plug & Play design (Wago Terminal)

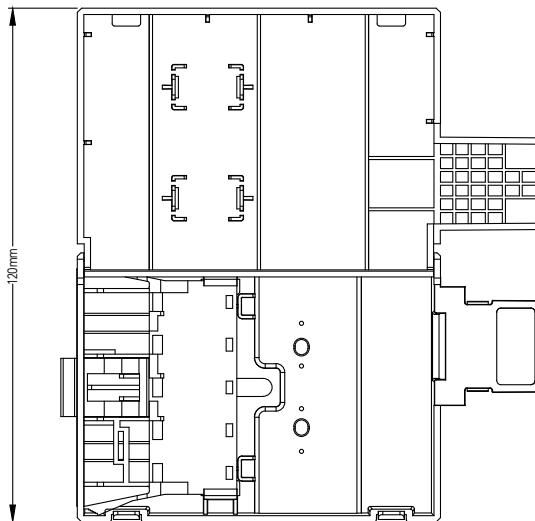
Wiring capability:
0.5-2.5mm²(AWG 14-20)



Combined(Top View)

Combined(Side View)

Note: Because the height of the 25W enclosure is slightly lower than that of the Loop box (Due to its own compact design) , it may be necessary to add a gasket on the plane (to maintain balance), not necessarily depending on site conditions.



Mated with [Wago 770-1105/022-000](#)

<http://www.wago.com/770-1105/022-000>