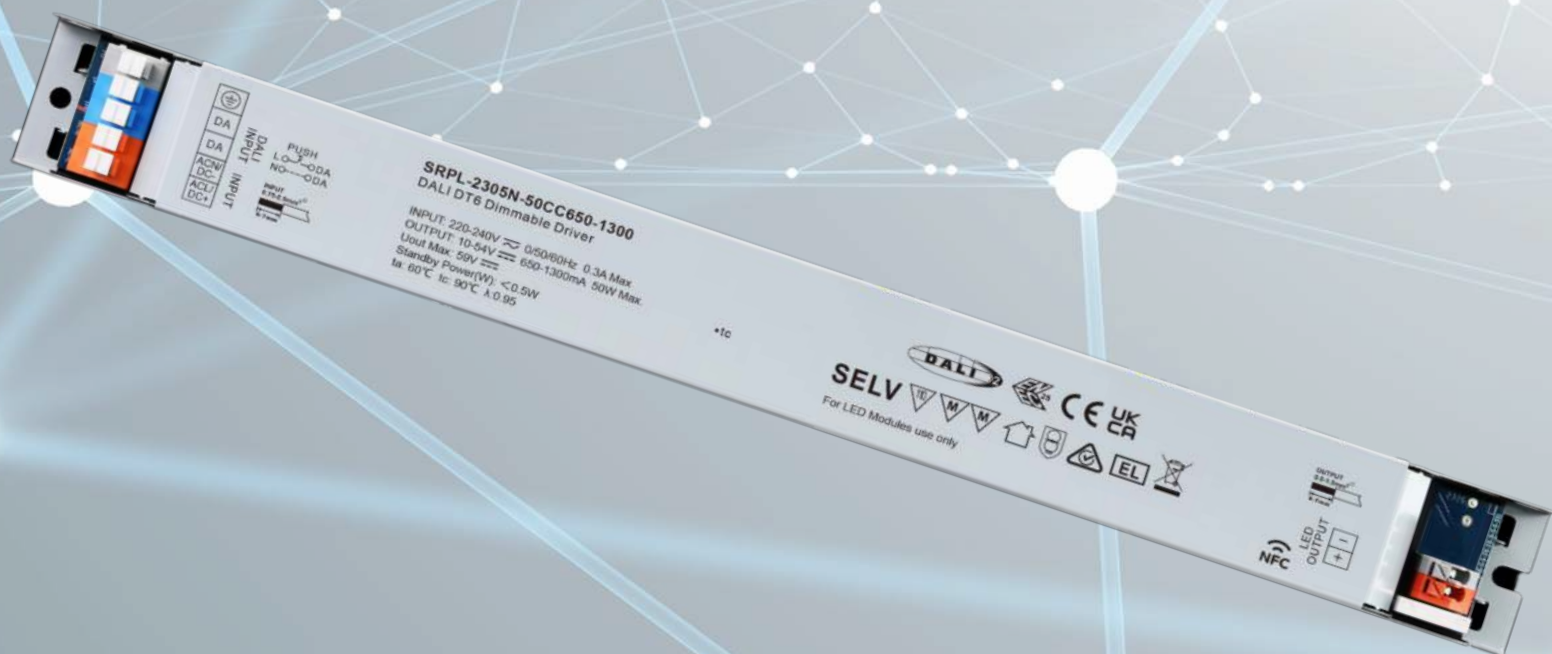


SUNRICHER



5 YEAR
WARRANTY

50W

Constant Current Linear LED Driver with DALI-2 NFC

Features of the:
SRPL-2305N-50CC650-1300



Constant
Current



PushDimming
(VAC)



DALI 2 Protocol



In built
applications



NFC
Compatible



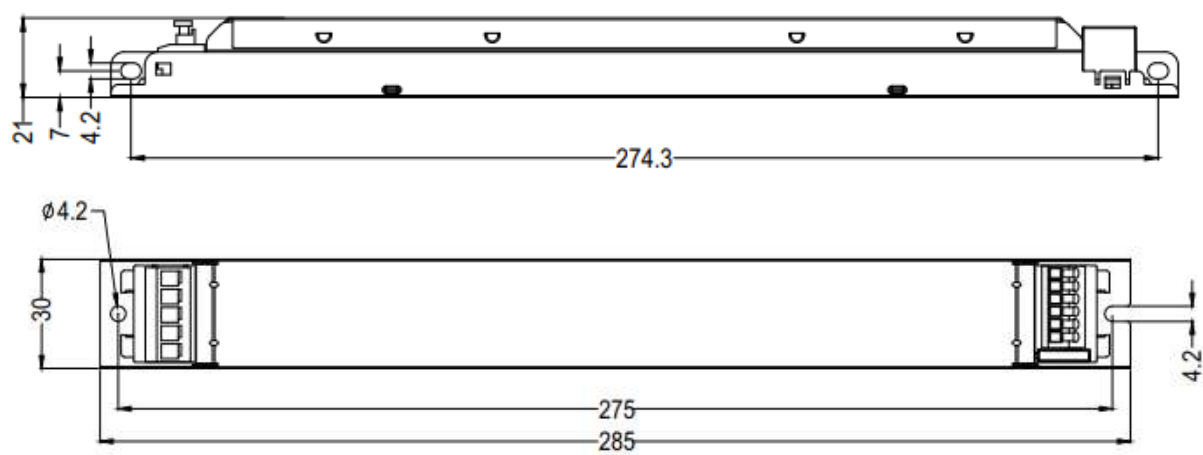
Class II Power
Supply

CE   IP20 SELV

Specification

Model		SRPL-2305N-50CC650-1300
Output	DC Voltage Range	10 ~ 54V
	Rated current	650-1300mA via NFC setting; Min.current gear lower to 0.1mA. Default 1300mA
	Current Accuracy	±3% (±1% @ Certain full load) @ full load
	Rated power	50W
Input	Voltage Range	220-240VAC
	Frequency range	50/60Hz
	Power Factor (Typ.)	> 0.97 @ 230VAC (Full load)
	Total Harmonic Distortion	THD ≤ 6% (@ full load / 230VAC)
	Efficiency (Typ.)	> 88% @ 230VAC full load
	AC Current (Max)	0.3A @ 230VAC
	Inrush Current (Typ.)	Max. 26.6A at 230VAC; 144µs 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 ~ +60°C
	Max. Case Temp	TC=90°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	285*30*21 mm (L*W*H)
	Weight	0.25kgs
	Warranty	5 Years
Notes	1. DO NOT select dimming input with power applied to the device. 2. DO NOT install with power applied to device. 3. DO NOT expose the device to moisture.	

Mechanical Specification

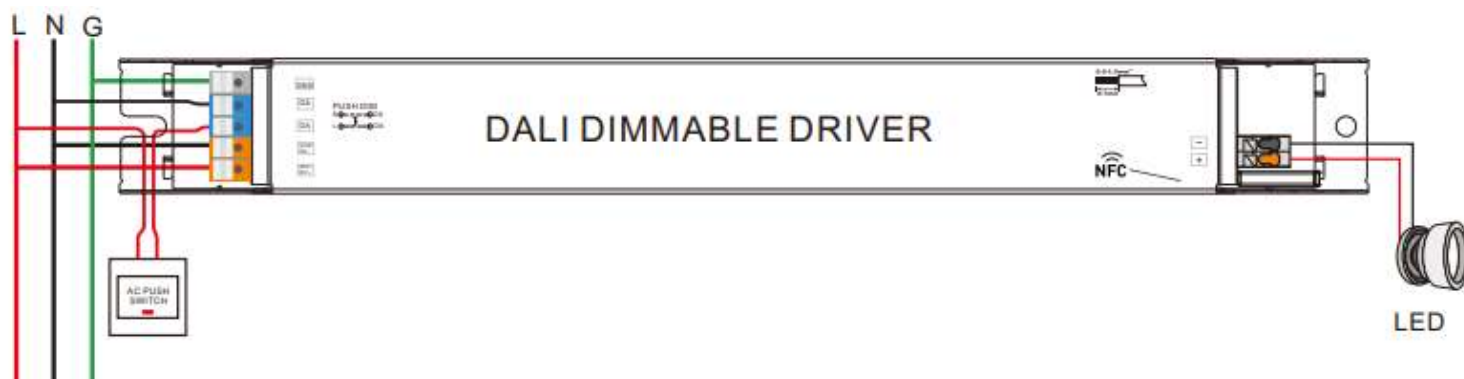


Wiring Diagrams & Dimming

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

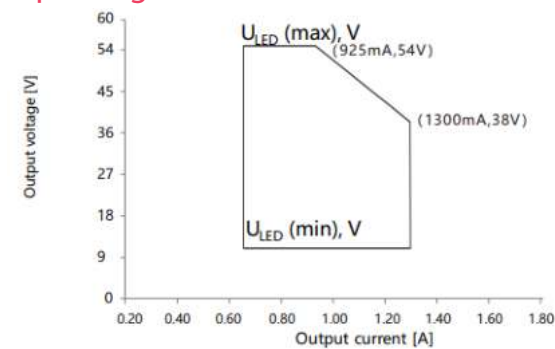
With NFC Programming Devices:

Note:

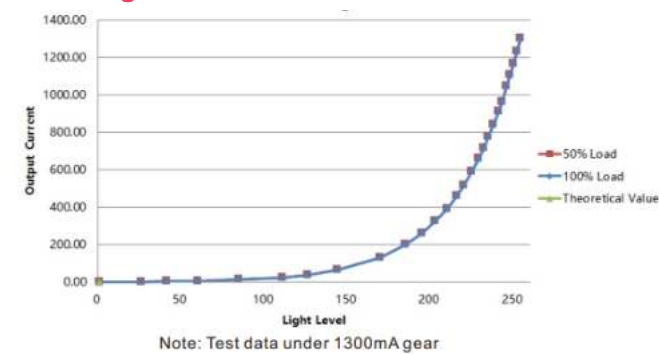
1. Do wiring according to the wiring diagram and power on the DALI system
2. Recommend setting parameters without power-on the DALI devices
3. Please make sure your mobile phone has NFC function and enable it

Wiring Diagrams & Dimming

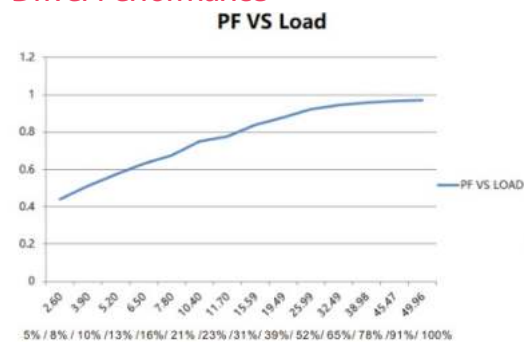
Operating Window



Dimming Curve

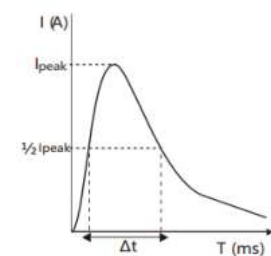


Driver Performance



MCB Load Quality

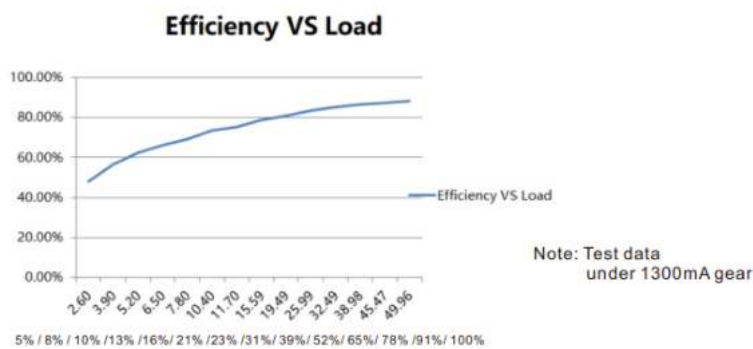
Module Number	I _{peak}	T _{width}	Max.quantity of LED Driver per MCB														
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRPL-2305N-50CC650-1300	26.6A	144μs	17	22	27	34	42	23	30	37	47	58	27	35	43	53	67
SRPL-2309N-50CCT650-1300	26.6A	144μs	17	22	27	34	42	23	30	37	47	58	27	35	43	53	67



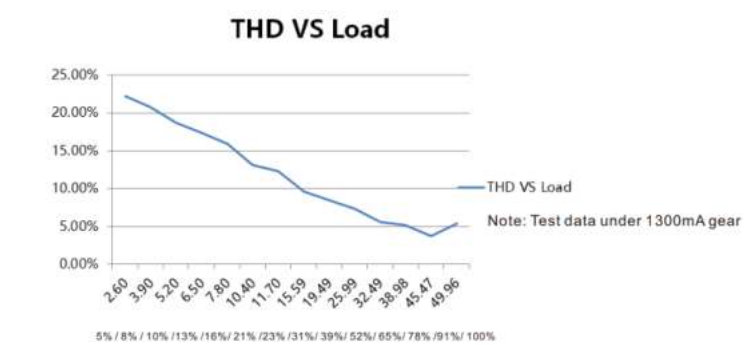
Note:

- 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

Driver Performance



Driver Performance



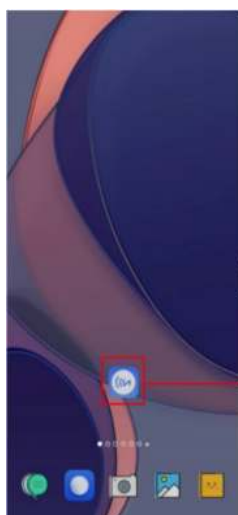
Expected Lifetime

Module Number	Output current	Ta	30 °C	40 °C	45 °C	...	60 °C
SRPL-2305N-50CC650-1300	650 – 1300 mA	Tc	48 °C	58 °C	64 °C	...	90 °C(max)
SRPL-2309N-50CCT650-1300	650 – 1300 mA	Lifetime	> 100,000 h	> 100,000 h	> 80,000 h		> 25,000 h

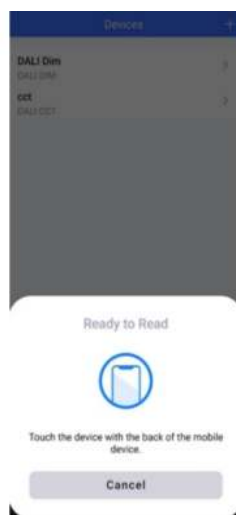
The LED driver is designed for a lifetime stated above under reference conditions.
The relation of tc to ta temperature depends also on the luminaire design.

Operation - Working with 'SR NFC Tool' App

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



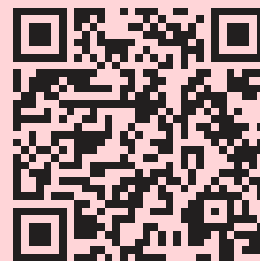
Download
"SR NFC
Tool"



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

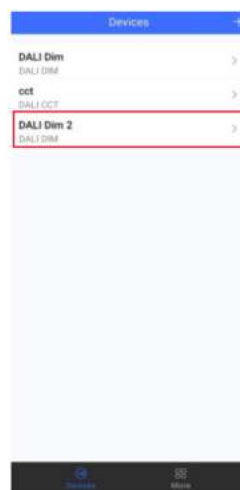
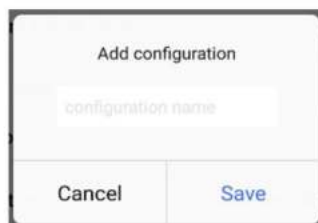
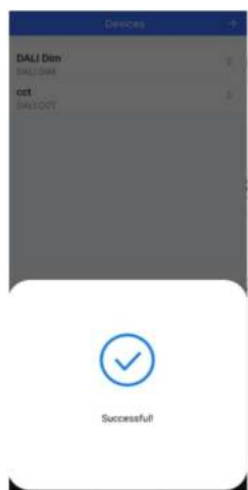
Apple QR Code:



Android QR Code:



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



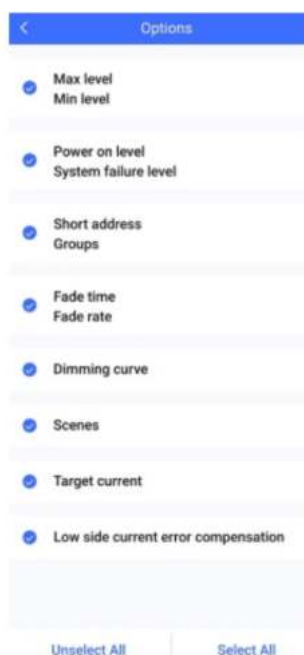
Step 3: Unlock device, enter parameters configuring page.



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.

The screenshots show the following configuration steps:

- Screen 1:** DALI Dim 2 settings. Fields include Device Type (DALI DIM), Product Id (0x01000001), Options, Max level (100.0%), Min level (0.100%), Power on level (MASK), System failure level (MASK), Short address (0), Groups, Fade time (Extended fade), Fade rate (358steps/s), Dimming curve (Logarithmic), Scenes, and Target current (300.0mA). A 'Set All Attributes' button is at the bottom.
- Screen 2:** Level setting. Level is set to 255 (MASK). Dimming curve is set to Logarithmic. A 'Set All Attributes' button is at the bottom.
- Screen 3:** System failure level setting. Level is set to 255 (MASK). Dimming curve is set to Logarithmic. A 'Set All Attributes' button is at the bottom.
- Screen 4:** Fade rate setting. Fade rate is set to 7 (44.7steps/s). A 'Set All Attributes' button is at the bottom.
- Screen 5:** Groups setting. Groups are set to 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15. A 'Set All Attributes' button is at the bottom.

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

The screenshots show the following steps:

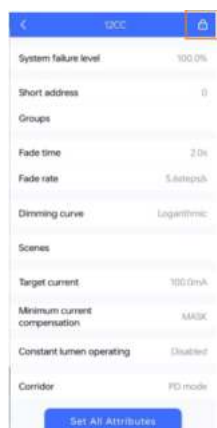
- Screen 1:** Scenes list. Scenes 0 through 15 are listed, each with a 'level MASK' setting. A 'Read' and 'Write' button are at the bottom.
- Screen 2:** Target current setting. Target current is set to 300.0mA. A 'Read' and 'Write' button are at the bottom.
- Screen 3:** 'Ready to Write' confirmation screen. A 'Touch the device with the back of the mobile device.' instruction is shown. A 'Cancel' button is at the bottom.
- Screen 4:** 'Successful' confirmation screen. A 'Successful!' message is shown.

Notes:

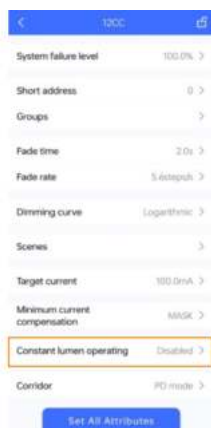
1. NFC function doesn't require any power driver
2. Many functions can be configured by NFC. Kindly check your desired functions.
3. All of our DALI drivers are in the best performance within our DALI master/ gateway

CLO and Corridor DIM(CD) Function Instruction

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



Read From the NFC Driver



Unlock it, and Click here to enter CLO settings



Step 2: Enter CLO Setting homepage



Enable CLO function



Click "1", and set its time and level

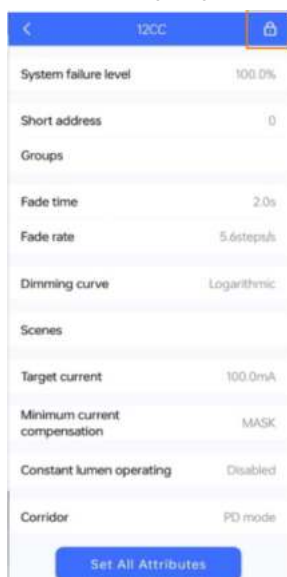


Set your desired time and levels.
Graphic display

Note:

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

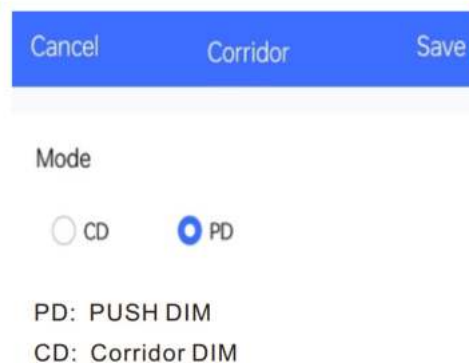
Step 3: Corridor dim(CD) function



Read From the NFC Driver



Unlock it, and Click here to enter Corridor mode



PD: PUSH DIM

CD: Corridor DIM

Operation

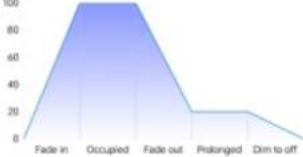
Step 4: Enter CD Setting homepage

CancelCorridorSave

Mode

☒ CD☐ PD

Preview

Level (%)


Fade in time

5s

Value range 0-100

Occupied time

ReadWrite

CancelCorridorSave

Occupied time

120s

Value range 0-60,000

Occupied level

100%

Value range 0-100

Fade out time

5s

Value range 0-100

Prolonged time

40s

ReadWrite

CancelCorridorSave

Prolonged time

60s

Value range 0-60,000

☐ Infinite

Prolonged level

20%

Value range 0-100

Dim to off time

5s

Value range 0-100

ReadWrite

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

ConfigurationsMore

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