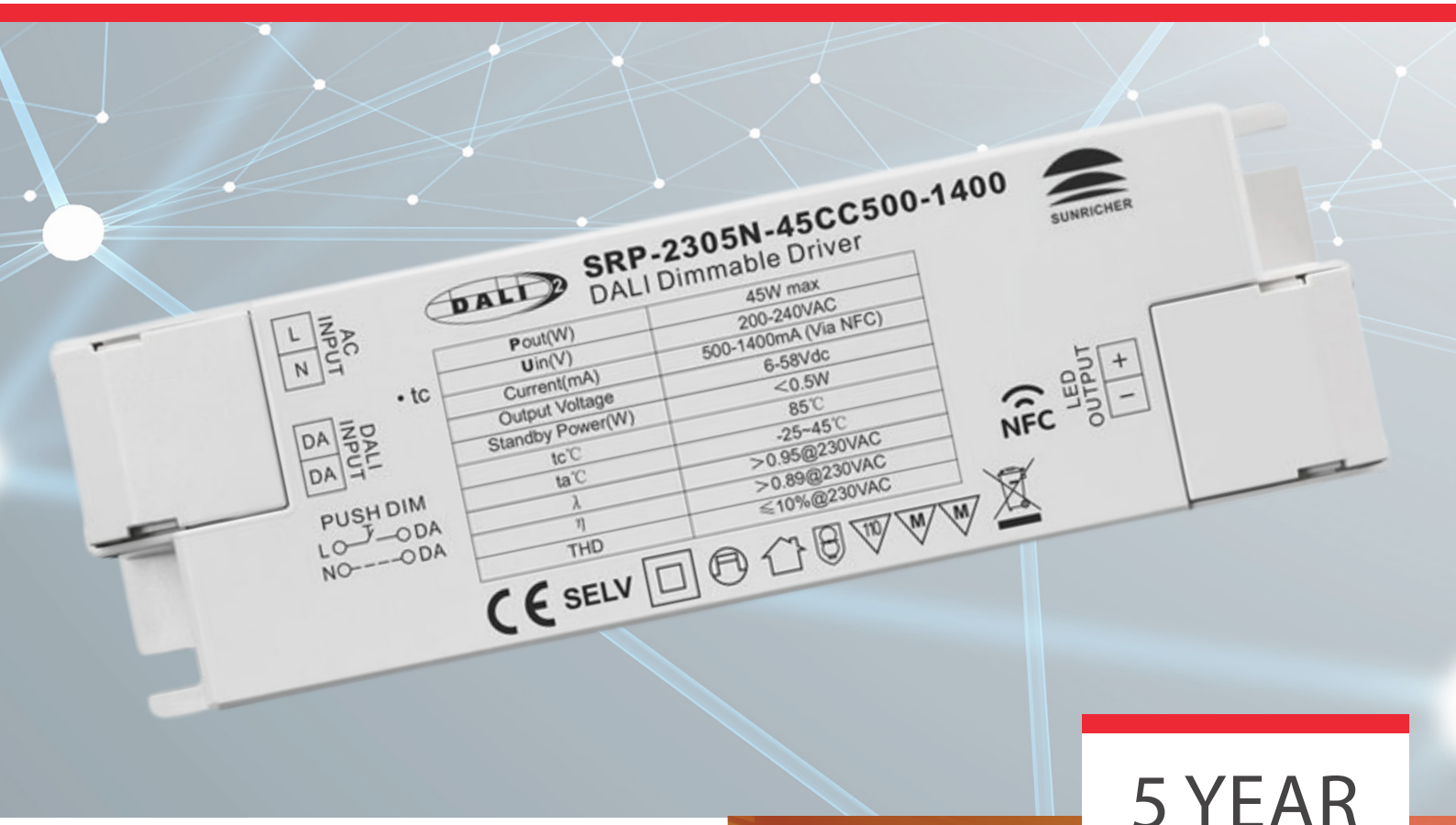
SUNRICHER



5 YEAR
WARRANTY

45W

Compact Constant Current LED Driver with DALI-2 NFC

Features of the:
SRP-2305-45CC500-1400

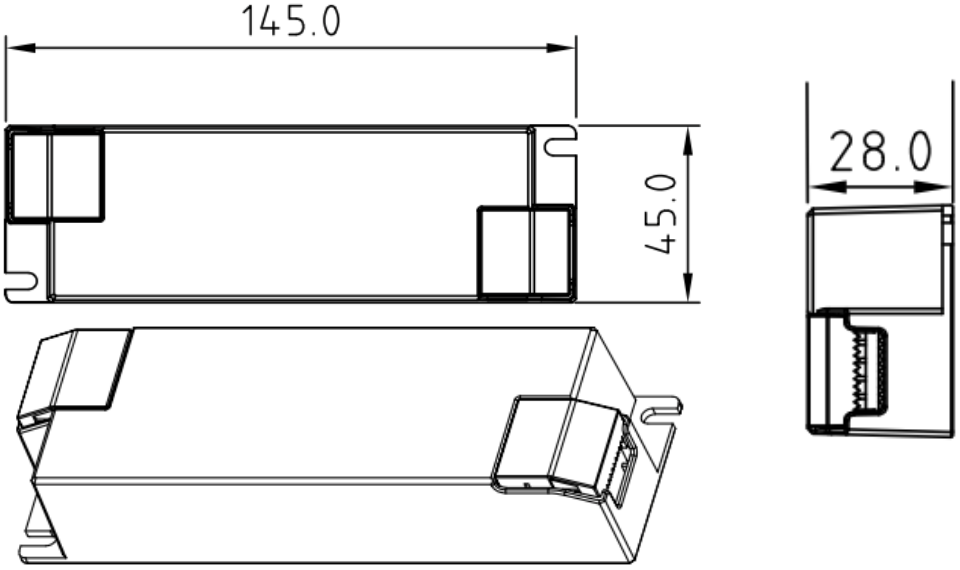
- Constant Current
- PushDimming (VAC)
- DALI 2 Protocol
- Low level dimming with 0.1 Dimming
- NFC Compatible
- Class II Power Supply

IP20 SELV

Specification

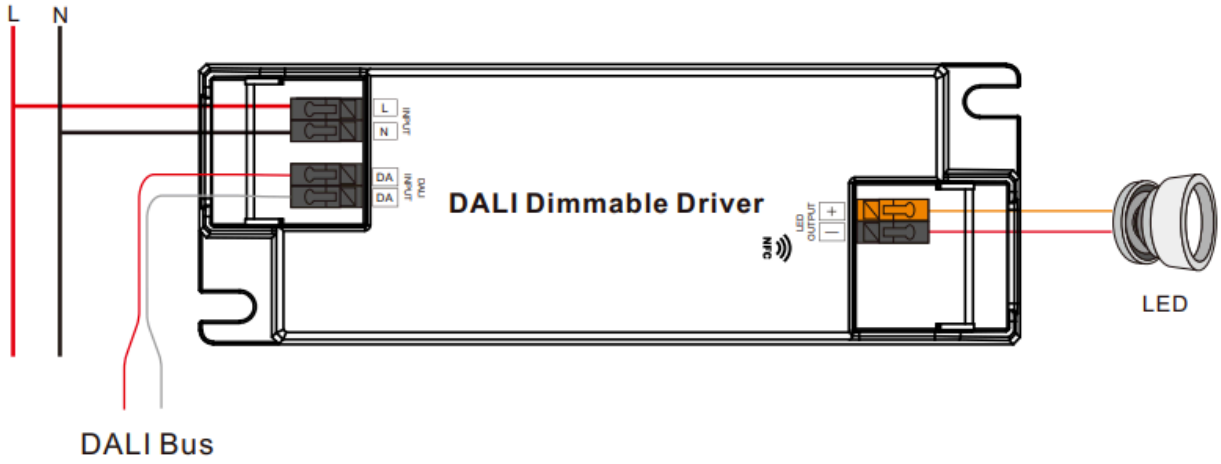
Model		SRP-2305N-45CC500-1400
Output	DC Voltage Range	6 ~ 58V
	Rated current	500-1400mA via NFC setting; Min.current gear lower to 0.1mA
	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated power	45W
Input	Voltage Range	220-240VAC
	Frequency range	50/60Hz
	Power Factor (Typ.)	> 0.95@230VAC Full load
	Total Harmonic Distortion	THD ≤ 10% (@ full load / 230VAC)
	Efficiency (Typ.)	89% @ 230VAC full load
	AC Current (Max)	0.25A @ 230VAC
	Inrush Current (Typ.)	Max. 8.56A at 230VAC; 88μs 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, 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	145*45*28 mm (L*W*H)
	Weight	0.20kgs
	Warranty	5 Years
Notes	1. DO NOT install with power applied to the device. 2. DO NOT expose the device to moisture.	

Mechanical Specification

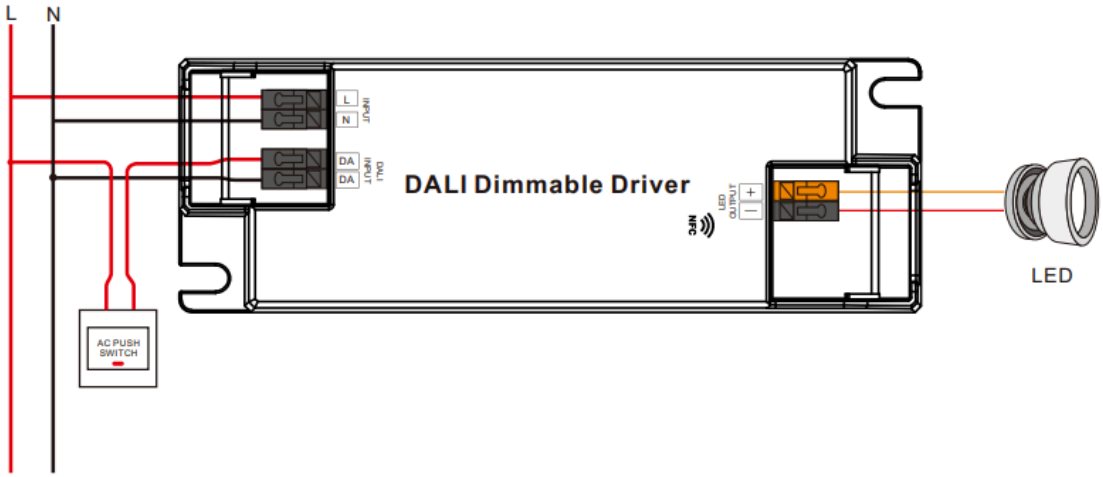


- Input Voltage Terminal: 2 pole terminal (same as the diagram)
- DALI or PUSH Dim Terminals: 2 pole terminals
- Output LED's: 2 pole terminal block: Positive (+), Negative (-)

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

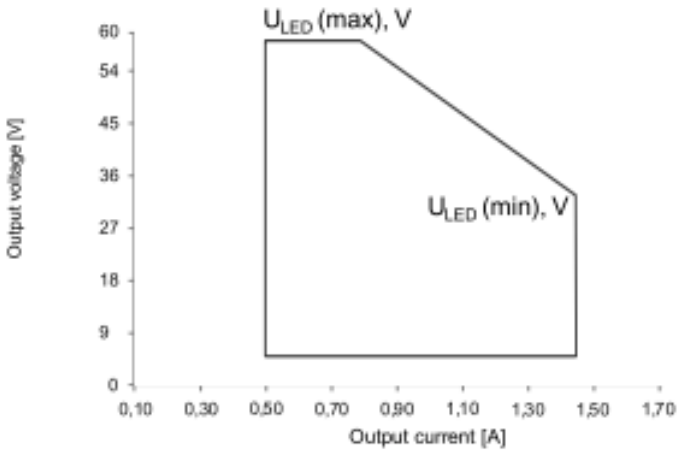
With NFC Programming Devices:

Note:

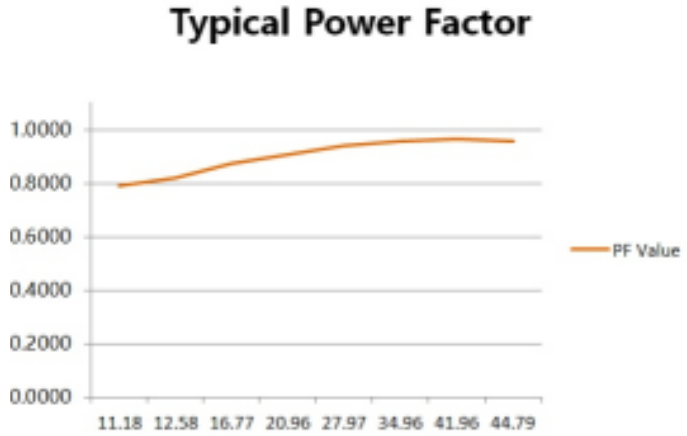
1. Do wiring according to the wiring diagram and power on the DALI system
2. Recommend setting parameters without power-on the DALI devices
3. Please make sure your mobile phone has NFC function and enable it

Wiring Diagrams & Dimming

Operating Window

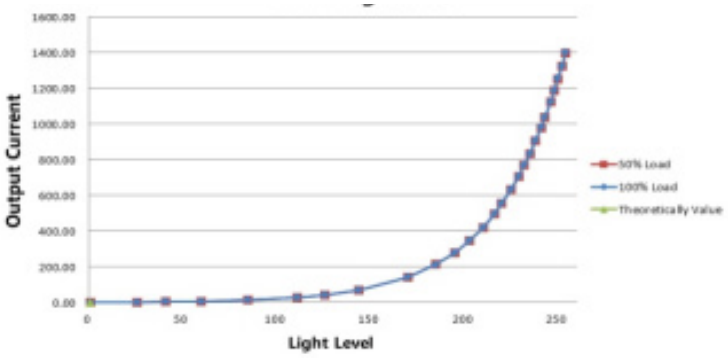


Driver Performance



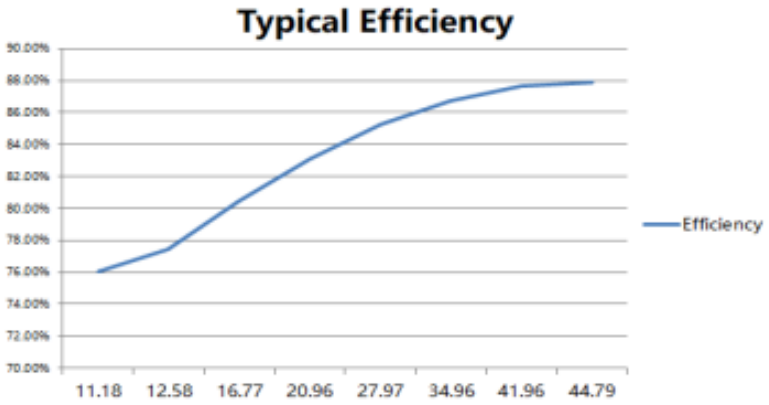
Note: Test data under 1400mA gear

Dimming Curve



Note: Test data under 1400mA gear

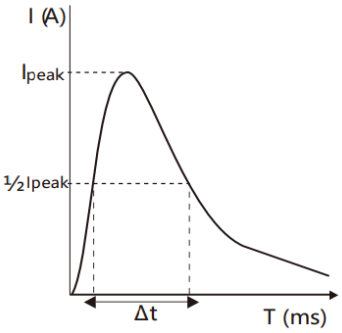
Driver Performance



Note: Test data under 1400mA gear

MCB Load Quality

Module Number	Ipeak	Twidth	Max.quantity of LED Driver per MCB														
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-2305N-45CC500-1400	8.56A	88μs	17	22	28	35	43	28	36	44	56	70	32	41	51	64	80
SRP-2309N-45CCT500-1400	8.56A	88μs	17	22	28	35	43	28	36	44	56	70	32	41	51	64	80

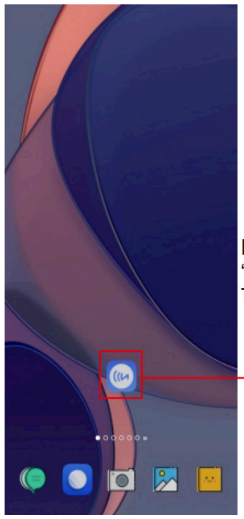


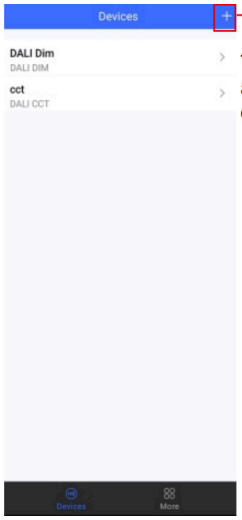
Note:

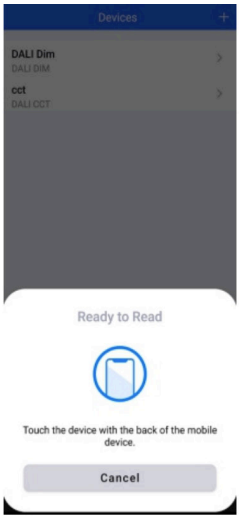
1. Those MCB parameters are based on ABB S200 series circuit breakers.
2. For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
3. Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall 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

Operation - Working with 'SR NFC Tool' App

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







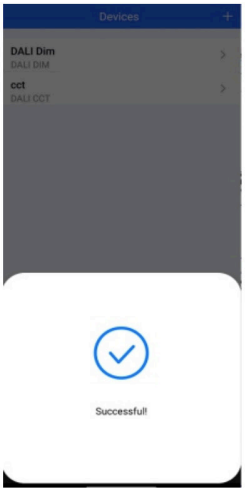
Note:

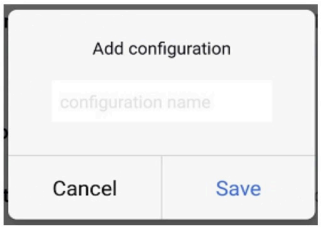
1. Please make sure that you have enabled NFC function with your mobile phone/ tablet.
2. Please make sure that the "NFC position" is matched.
3. Please do not power on the device before setting.
4. Please If you can't download "SR NFC Tool". Please contact with us
5. Please refer to QR code below

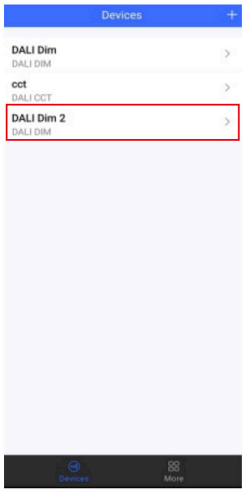
Apple QR Code:

Android QR Code:

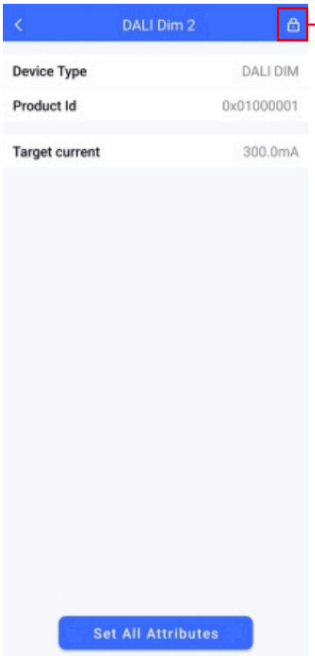
Step 2: Add device, and name it as you wish.





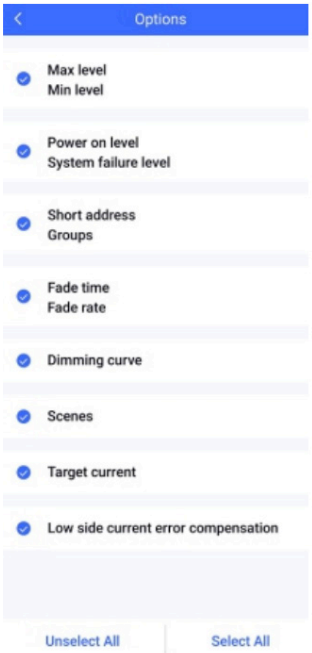


Step 3: Unlock device, enter parameters configuring page.



Locked

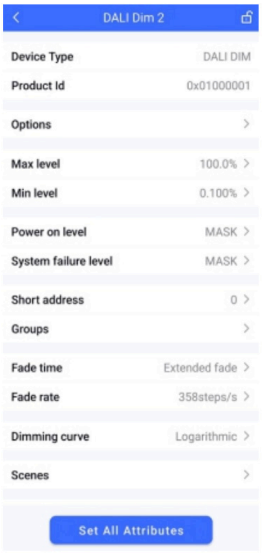
Unlock it

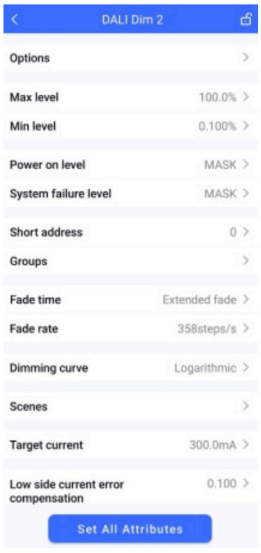


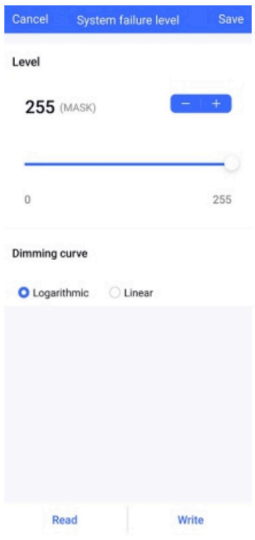
Notes:

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.

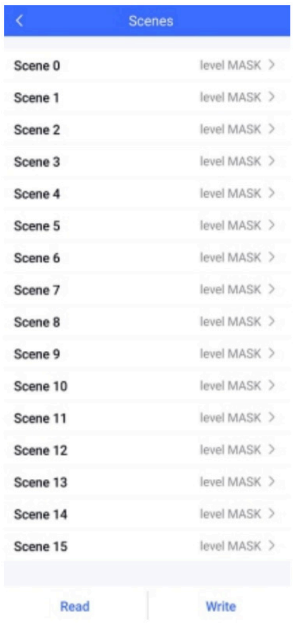
Step 4: Few parameter interface, you can choose the setting based on your requirements.

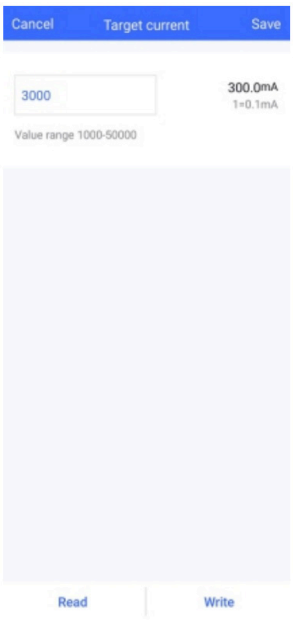


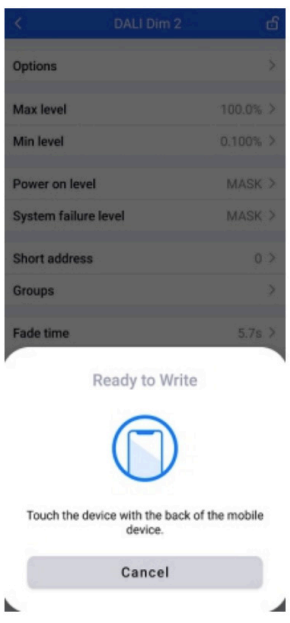


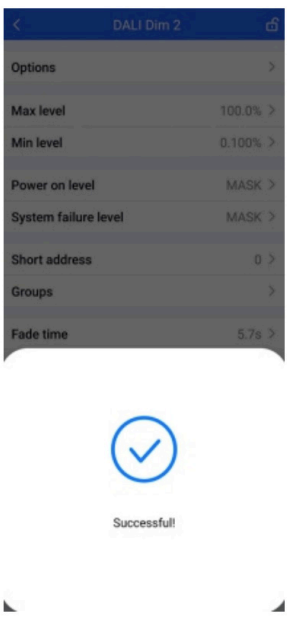


Step 5: After setting, please save the selected configuration via NFC and power on the device







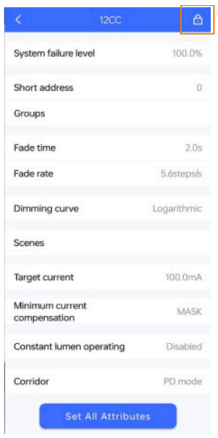


Notes:

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

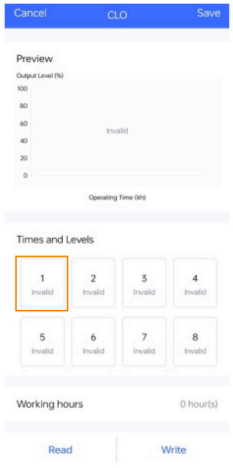


Read From the NFC Driver

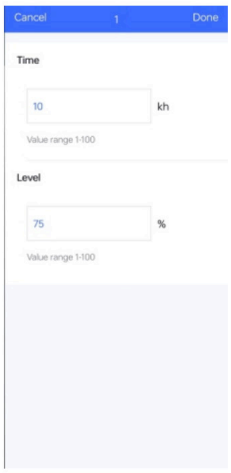
Unlock it,and Click here to enter CLO settings

Enable or Disable CLO function

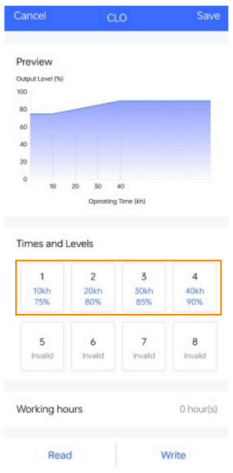
Step 2: Enter CLO Setting homepage



Enable CLO function



Click "1",and set its time and level

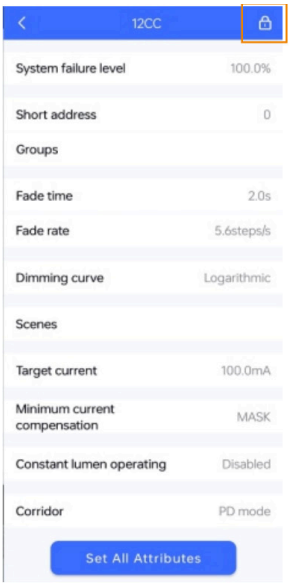


Set your desired time and levels.
Graphic display

Note:

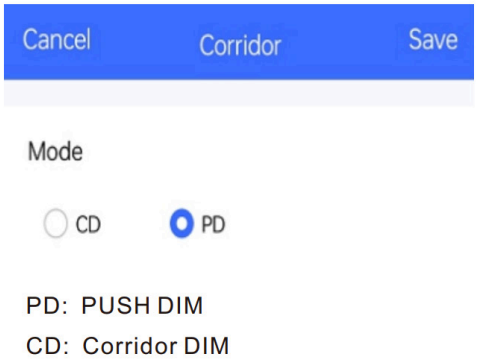
1. Working hours : Ability to calculate the working hours of a single driver

Step 3: Corridor dim(CD) function



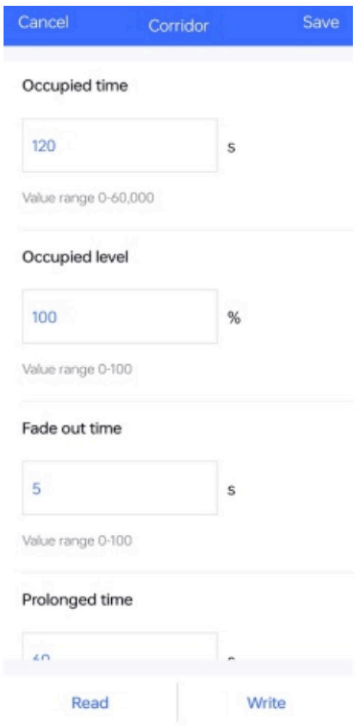
Read From the NFC Driver

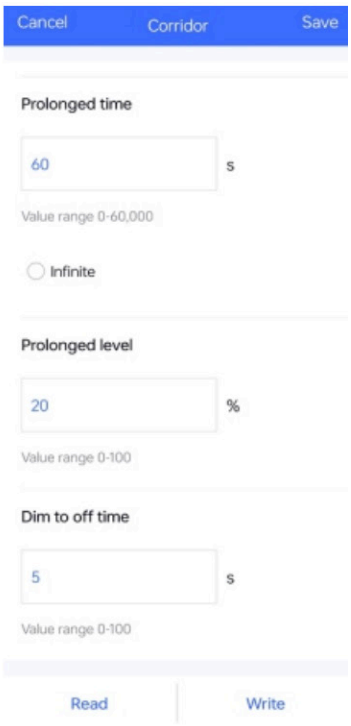
Unlock it,and Click here to enter Corridor mode



PD: PUSH DIM
CD: Corridor DIM

Step 4: Enter CD Setting homepage

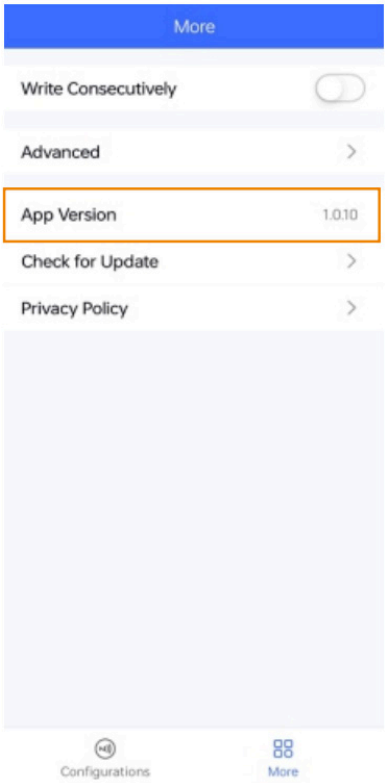




Notes:

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



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