

## SUNRICHER



65W Compact Constant Current LED Driver with DALI-2 NFC

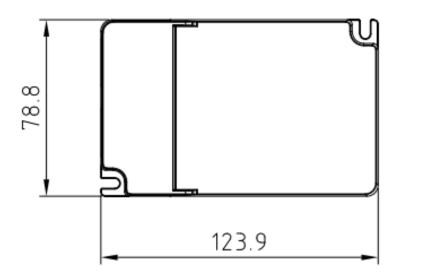


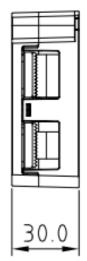
**5 YEAR** 

# Specification

		SRP-2305N-65CC500-1500
	DC Voltage Range	6~58V
Outrout	Rated current	500-1500mA via NFC setting; Min.current gear lower to 0.1mA
Output	Current Accuracy	±3%( ±1%@Certain full load) @ full load
	Rated power	65W
	Voltage Range	220-240VAC
	Frequency range	50/60Hz
	Power Factor (Typ.)	> 0.98@230VAC Full load
	Total Harmonic Distortion	THD ≤ 6% (@ full load / 230VAC)
Input	Efficiency (Typ.)	90% @ 230VAC full load
·	AC Current (Max)	0.35A @ 230VAC
	Inrush Current (Typ.)	Max. 9.68A at 230VAC; 70µs duration
	Leakage current	< 5mA/230VAC
	Standby Power Consumption	<0.5W
	Anti Surge	L-N: 2KV
	Dimming Interface	DALI Device Type 6 (DALI consumption < 2mA)/ AC Push
	Dimming Range	0.01%-100% @Max current
Control	Dimming Method	Amplitude/CCR dimming
	Dimming Curve	Linear/ Logarithmic optional
	Short Circuit	Yes, recovers automatically after fault condition is removed
Protection	Over Current	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after temperature drop
	Working TEMP.	-25°C ~ +45°C
Environment	Max. Case Temp	TC=85°C (Ta="45°C")
LIMIOIIIIeitt	Working humidity	10%-95% RH (non-condensing)
	Storage TEMP humidity	40°C ~ +80°C, 10% ~ 95% RH
	Safety standards	EN61347-1, EN61347-2-13
	Withstand voltage	I/P-O/P: 3.75KVAC
Safety & EMC	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
	Size	123.9*78.8*30 mm (L*W*H)
Others	Weight	0.25kgs
	Warranty	5 Years
Notes	1. DO NOT install with power applied 2. DO NOT expose the device to mois	

# Mechanical Specification



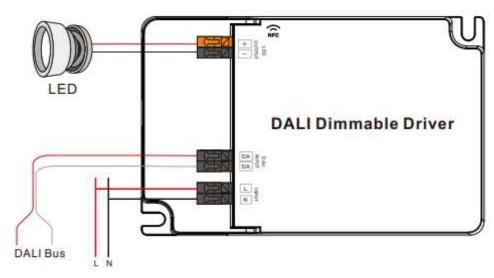


 Input Voltage Terminal: 2 pole terminal (same as the diagram)

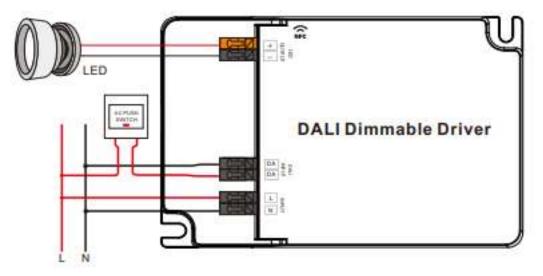
- DALI or PUSH Dim Terminals: 2 pole terminals
- Output LED's: 2 pole terminal block: Positive (+), Negative (-)

### Wiring Diagrams & Dimming

# DALI



### Push Dimming



## Operation

### 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 desirred level and release it, then repear the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.

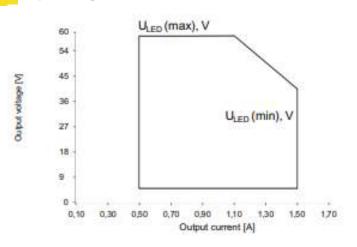
With NFC Programming Devices:

Note:

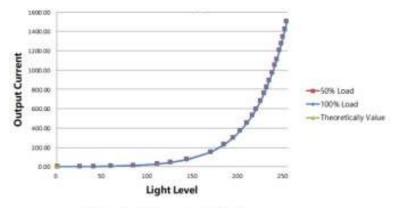
- 1. Do wiring according to the wiring diagram and power on the DALI system
- 2. Recommend setting parameters without power-on the DALI devices
- 3. Please make sure your mobile phone has NFC function and enable it

### Wiring Diagrams & Dimming

### **Operating Window**



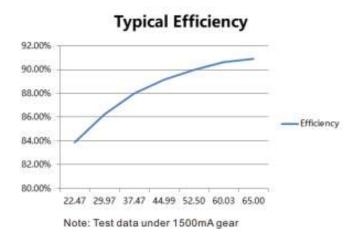
### **Dimming Curve**



Note: Test data under 1500mA gear

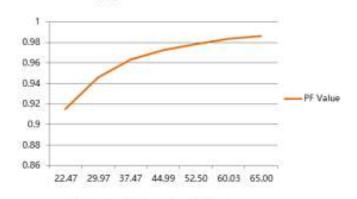
### MCB Load Quality

### **Driver Performance**



### **Driver Performance**

**Typical Power Factor** 



#### Note: Test data under 1500mA gear

Module Number	Ipeak	Twidth				Мах	.qua	antity	ofL	EDD	rive	rper	мсв				
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-2305N-65CC500-1500	9.68A	70µs	15	20	24	30	38	20	26	32	40	50	22	29	36	45	57
SRP-2309N-65CCT500-1500	9.68A	70µs	15	20	24	30	38	20	26	32	40	50	22	29	36	45	57

#### 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.

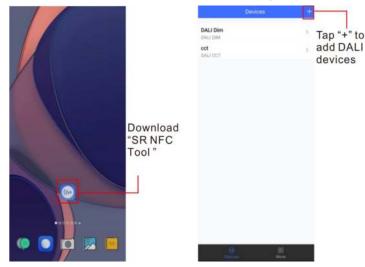
3. Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.

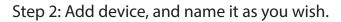
4. When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.

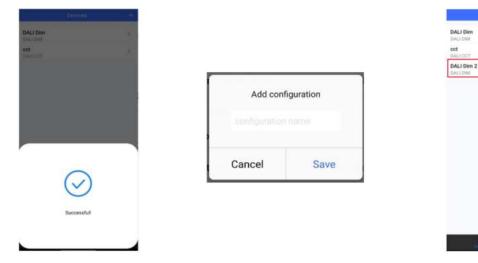
5.Type C MCB's are strongly recommended to use with LED lighting

# Operation - Working with 'SR NFC Tool' App

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







Step 3: Unlock device, enter parameters configuring page.

4	DALI Dim 2	-	<	DALI Dim 2	ත්		<	Options
Device Type	DALI DIM	Locked	Device Type		DALI DIM	Unlock it	•	Max level Min level
Product Id	0x01000001		Product Id		0x01000001			
Target current	300.0mA		Options		>		0	Power on level System failure level
			Target current		300.0mA >		0	Short address Groups
							•	Fade time Fade rate
							•	Dimming curve
							•	Scenes
							•	Target current
							•	Low side current error compensation
Set	t All Attributes		Set	t All Attributes				Unselect All Select All

#### Note:

Ready to Read

e with the back of the device.

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





Notes:

- You have to unlock the device then do some settings
- 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.

6	DALJ Dim 2 🗗	C DALI Dim 2	மீ	Cancel P	tower on level Save	Cancel	System failure level	Save	Cancel Fade (	ate Save	Gance	6	G	roups		Save
Device Type	DALI DIM	Options	>	Level		Level				_		-	-	1000		1120
Product Id	0x01000001	Max level	100.0% >	255 (MASIC		255 04		+	7 (44.7steps/s)	- +	0	2	2	3		5
Options	5	Min level	0.100% >	200 (1000)		255 (*					6	7	8		10	11
Max level	100.0% >	Power on level	MASK >		0			-0		15	12	13	14	15		
Min level	0.100% >	System failure level	MASK >	0	255	0		255								
Power on level	MASK >	Short address	0.2													
System failure le	wel MASK >	Groups	>	Dimming curve		Dimming cu	rve									
Short address	0 >	Fade time E	stended fade >	O Logarithmic	C Linear	O Logarith	mic 🔿 Linear									
Groups	2	Fade rate	358uteps/s >													
Fade time	Extended fade >	Dimming curve	Logarithmic >													
Fade rate	358steps/s >	Scenes														
Dimming curve	Logarithmic >	Target current	300.0mA >													
Scenes	3	Low side current error compensation	0.100 >													
Set	All Attributes	Set All Attribute	es	Read	White	Rea	d W	ite	Read	Write		Read			Wri	te

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

\$	Scenes	Cancel	Target current	Save	< DALI Di	m 2 df	S DALLD
icene 0	level MASK >				Options	- 2	Options
cene 1	level MASK. >	3000		300,0mA 1+0.1mA	Maxievel	100.0% >	Max level
icene 2	level MASK >	Value range	1000-50000		Min level	0 100% >	Minlevel
cene 3	level MASK >						
cene 4	level MASK. >				Power on level	MASK >>	Power on level
cene 5	level MASK >				System failure level	MASK	System failure level
cene 6	level MASK >				Short address	0.00	Short address
ene 7	level MASK 3				Groups	- <b>3</b> -2	Groups
ene 8	level MASK 3				Fade time	\$.74 X:	Fade time
ene 9	level MASK >						
ene 10	level MASK >				Ready to	Write	
ene 11	level MASK 3				G	N	(
cene 12	level MASK >					)	(~
cene 13	level MASK >						
cene 14	level MASK 2				Touch the device with the device		Success
icene 15	level MASK 2				_		
					Cance	bl.	
Read	Write	Rev	ad	Write		4	•

#### 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

Syste

large

Cons

	6	150 Hane	-13			
n faikure level	100,0%	System failure level	100.0% >			
address	0	Short address	0.2			
4		Groups	2	Cancel	CLO	Save
ime	2.04	Fade time	201.3	Contoer	CLO	Javo
ate	Sileliepsh	Fade rate	S-latepuh >			
ing curve	Logaritonic	Denming curve	Logarithmic 3	Constant lun	nen enable	$\odot$
		Scenes	5			
current.	4er0100F	Target current	100.0mA . 3	Working hou	irs	0 hour(s)
um current instation	AMOK	Minimum current compensation	MAR >	Enable	or Disable CLO	function
ant lumen operating	Disabled	Constant lumen operating	Disabled >			
or .	PD mode	Corridor	P0 made >			
Set All Attribut	No.	Set All Altri	DUITHE			

Read From the NFC Driver

Unlock it, and Click here to enter CLO settings

### Step 2: Enter CLO Setting homepage

sance		0	Server
Preview Inspaces (%) all all all all all all all all	in	44	
		Firm (dP)	
limes and L	evels .		
1	2	3 Tradit	4 Instit
5	<b>6</b> initi	2 Insalat	*
Norking ho	urs		0 houris)
Read	6	v	Ariter





Click "1", and set its time and level

Ocean and the			
10			_
-			
1			
÷.,			
	Gentley	700-00 2000	
Times and I	2 2000	8 1000	4
1000	82%	80%	90%
		y Traint	8 Inst
71%	ADS.	7 Positi	

#### Note:

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

Graphic display

1200	۵	K 1200	മ		
rvel	100.0%	System failure level	100.0% >		
	0	Short address	0 >	· · · · · · · · · · · · · · · · · · ·	
		Groups	>	Cancel	Corrido
	2.0s	Fade time	2.0s >		
	5.6stepuls	Fade rate	5.6steps/s >		
	Logarithmic	Dimming curve	Logarithmic >	Mode	
		Scenes	2	⊖ CD	O PD
	100.0mA	Target current	100.0mA >	0.00	
	MASK	Minimum current compensation	MASK >	PD: PUS	HDIM
operating	Disabled	Constant lumen operating	Disabled >	CD: Corr	idor DIM
	PD mode	Corridor	PD mode >		
All Attribute	is .	Set All Attrib	utes		
m the N	IFC Driver	Unlock it, and C	lick here to	enter Corridor mode	

Step 3: Corridor dim(CD) function

System failur Short addres Groups Fade time Fade rate Dimming cur Scenes Target currer Minimum cur compensatio Constant lum

Read Fi

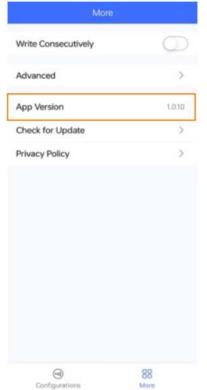
# Operation

### Step 4: Enter CD Setting homepage

Cancel Corridor Save	Cancel Corridor Save	Cancel Corridor
O CD PD	Occupied time	Prolonged time
Preview and the	120 s Value range 0-60,000	60 s Value range 0-60.000
	Occupied level	) Infinite
10 10 6 Fade in Occupied Fade out Polonged Dim to off	Value range 0-100	Prolonged level
ade in time	Fade out time	20 % Value range 0-100
5 s	5 s Value range 0-100	Dim to off time
ilue range 0.100	Prolonged time	5 s Value range 0-100
	40	
Read Write	Read Write	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**



 Please make sure your APP version is 1.0.10 or higher.
 Please make sure NFC driver's firmware is available with CLO / CD functions