

SUNRICHER

15W Constant Current Round LED Driver with DALI-2 NFC

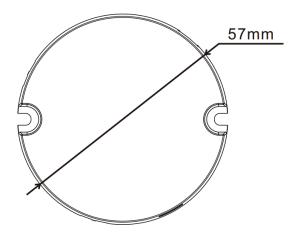


5 YEAR

Specification

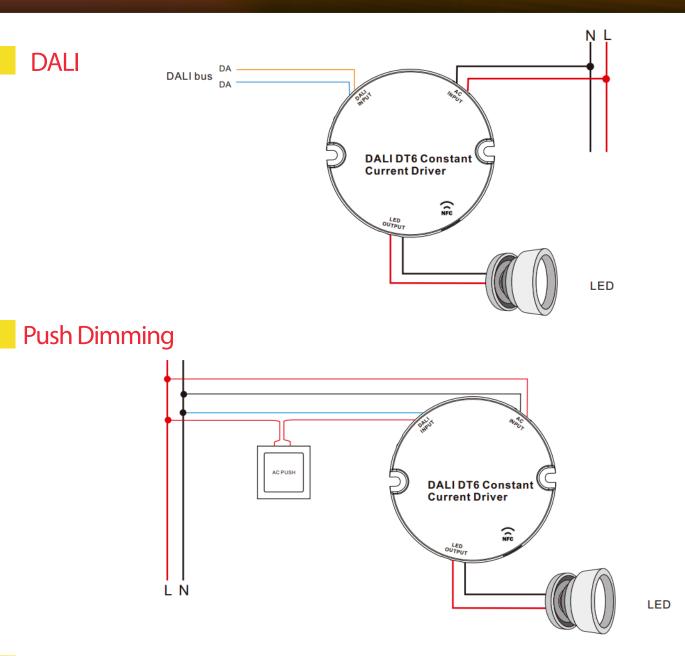
		SRPY-2305N-15CC200-700
	DC Voltage Range	3~42V
	Rated current	200-700mA via NFC tool; Min.current gear lower to 0.1mA, default 350mA
Output	Current Accuracy	±3% (±%@Certain full load) @ full load
	Rated power	15W
	Voltage Range	220-240VAC
	Frequency range	50/60Hz
	Power Factor (Typ.)	> 0.95@230VAC Full load
	Total Harmonic Distortion	THD ≤ 8% (@ full load / 230VAC)
Input	Efficiency (Typ.)	>83% @ 230VAC full load
· ·	AC Current (Max)	0.1A @ 230VAC
	Inrush Current (Typ.)	Max. 4.66A at 230VAC; 72µs 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 ~ +60°C
Environment	Max. Case Temp	TC=85°C
Environment	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	φ57*24 (D*H)
Others	Weight	0.15kgs
	Warranty	5 Years
NL	1. DO NOT install with power applied	to the device.
Notes	2. DO NOT expose the device to mois	iture.

Mechanical Specification



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Wiring Diagrams & 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

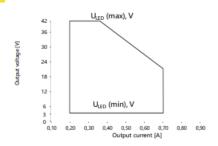
With NFC Programming Devices:

Note:

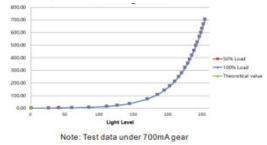
- 1. Do wiring according to the wiring diagram and power on the DALI system
- 2. Recommend setting parameters without power-on the DALI devices
- 3. Please make sure your mobile phone has NFC function and enable it

Wiring Diagrams & Dimming

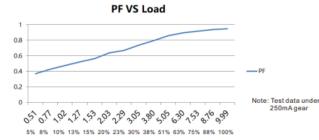
Operating Window



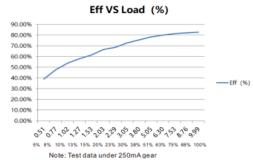
Dimming Curve



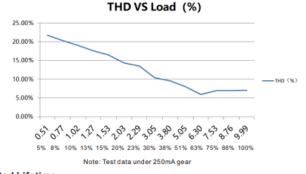
Driver Performance



Driver Performance



Driver Performance



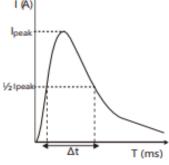
Expected Lifetime

Module Number	Output current	Та	30 °C	40 °C	45 °C	•••	60 °C
SRPY-2305N-15CC200-700	200 – 700 mA	Тс	50 °C	60 °C	70 °C	•••	85 °C
SRPY-2309N-15CCT200-700) 200 – 700 mA	Lifetime	> 100,000 h	> 80,000 h	> 60,000 l	h	> 40,000 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.

MCB Load Quality

Module Number	Ipeak	Twidth				Max	.qua	intity	ofL	ED D	rive	per	мсв	;				l (A) I _{peak}	
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25		1
SRPY-2305N-15CC200-700	4.66A	72µs	60	78	96	120	150	70	91	112	140	175	80	104	128	160	200	½ Ipeake -	-
SRPY-2309N-15CCT200-700	4.66A	72µs	60	78	96	120	150	70	91	112	140	175	80	104	128	160	200		



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.

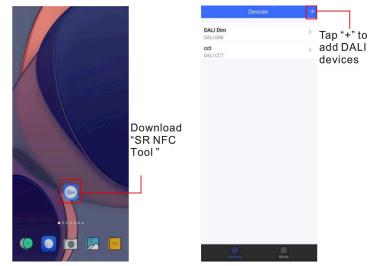
4. When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.

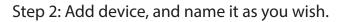
5.Type C MCB's are strongly recommended to use with LED lighting

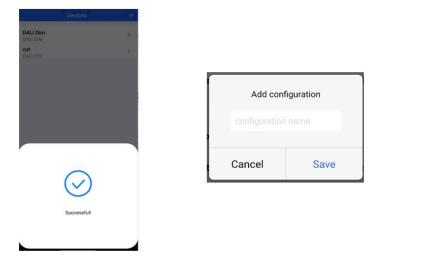
ADM Systems Pty Ltd E sales@admtech.com.au 1300 236 467

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.

<	DALI Dim 2		<	DALI Dim 2	đ		<	Options
Device Type	DALI DIM	Locked	Device Type		DALI DIM	Unlock it	0	Max level
Product Id	0x01000001	Looked	Product Id		0x01000001	UNIOCKIL		Min level
Target current	300.0mA		Options		>		0	Power on level System failure level
			Target current		300.0mA >		0	Short address Groups
							0	Fade time Fade rate
							0	Dimming curve
							•	Scenes
							0	Target current
							•	Low side current error compensation
Set	t All Attributes		Se	t All Attribute				Unselect All Select All
		,	ADM Syster	ee e Dtui lited		es@admtech.o		

Note:

Ready to Read

uch the device with the back of the mobil

Cancel

DALI Dim

DALI Dim 2

- 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.

<	DALI Dim 2 🗗	< DALI Dim	2 🗗	Cancel	Power on level	Save	Cancel	System failure level	Save	Cancel	ade rate	Save	Cance	S	Gr	oups		Save
Device Type	DALI DIM	Options	>	Level			Level					_		_	-			
Product Id	0x01000001	Max level	100.0% >	255 (MA	ski		255 (M	(ASK)	- +	7 (44.7steps/s)		- +	0		2	3	4	5
Options	>	Min level	0.100% >				200 (**						6	7	8	9	10	11
Max level	100.0% >	Power on level	MASK >			-0				1		15	12	13	14	15		
Min level	0.100% >	System failure level	MASK >	0		255	0		255									
Power on level	MASK >	Short address	0 >															
System failure I	level MASK >	Groups	>	Dimming curv	e		Dimming cu	rve										
Short address	0 >	Fade time	Extended fade >	 Logarithmi 	ic 🔿 Linear		 Logarith 	mic 🔷 Linear										
Groups	>	Fade rate	358steps/s >															
Fade time	Extended fade >	Dimming curve	Logarithmic >															
Fade rate	358steps/s >	Scenes	>															
Dimming curve	Logarithmic >	Target current	300.0mA >															
Scenes	>	Low side current error compensation	0.100 >															
Se	et All Attributes	Set All Attri	butes	Read	W	Irite	Rea	d N	Write	Read	W	Irite		Read			Write	

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

	Scenes	Cancel	Target current	Save	< DALI D	im 2 🗗	<
ne O	level MASK >				Options	×	Options
ne 1	level MASK >	3000		300.0mA 1=0.1mA	Max level	100.0% >	Max level
ne 2	level MASK >	Value range	1000-50000		Min level	0.100% >	Min level
3	level MASK >						
4	level MASK >				Power on level	MASK >	Power on level
5	level MASK >				System failure level	MASK >	System failure level
6	level MASK >				Short address	0 >	Short address
7	level MASK >				Groups	>	Groups
8	level MASK >				Fade time	5.7s >	Fade time
9	level MASK >						
	level MASK >				Ready to	Write	
11	level MASK >				G		
12	level MASK >				((
13	level MASK >						
14	level MASK >				Touch the device with th device		5
15	level MASK >				devic	-	
					Canc	el	
Read	Write	Rea	ad	Write			•

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

System f Short ad Groups ade tin Fade rat

Target o

		ස්	< 12CC	æ	
		100.0% >	System failure level	100.0%	ailure level
		0 >	Short address	0	dress
CLO	Cancel	2	Groups		
CLO	Concer	2.0s >	Fade time	2.0s	e
		5.6steps/s >	Fade rate	5.6steps/s	1
nen enable	Constant lume	Logarithmic >	Dimming curve	Logarithmic	curve
		>	Scenes		
urs 0 h	Working hours	100.0mA >	Target current	100.0mA	irrent
or Disable CLO functio	Enable o	mask >	Minimum current compensation	MASK	n current sation
		Disabled >	Constant lumen operating	Disabled	lumen operating
		PD mode >	Corridor	PD mode	
			C-A All ANNIH		0-4 All A44-16-14-

Read From the NFC Driver

Unlock it, and Click here to enter CLO settings

Step 2: Enter CLO Setting homepage

Step 3: Corridor dim(CD) function

ew Invested Development of the UNIX sand Levels 1 all Development of the UNIX shall Provided Prov
Control (No. (No. (No. (No. (No. (No. (No. (No.
Annels
Queuery Ine (H) s and Levels 1 2 3 4 Inuald Inuald Inuald 5 6 7 8
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Queuery Ine (H) s and Levels 1 2 3 4 Inuald Inuald Inuald 5 6 7 8
s and Levels 1 2 3 4 Invalid Invalid Invalid 5 6 7 8
s and Levels 1 2 3 4 Invalid Invalid Invalid 5 6 7 8
s and Levels 1 2 3 4 Invalid Invalid Invalid 5 6 7 8
s and Levels 1 2 3 4 Invalid Invalid Invalid 5 6 7 8
1 2 3 4 Invalid Invalid Invalid 5 6 7 8
1 2 3 4 Invalid Invalid Invalid 5 6 7 8
5 6 7 8
5 6 7 8
cing hours 0 hour(s)
0 1000 (0)
Read Write

Cancel	1	Done
Time		
10		kh
Value range 1-10	0	
Level		
75		%
Value range 1-10	0	

Enable CLO function

Click "1", and set its time and level

Prev	iew			
	Level (%)			
100				
80				
60				
40				
20				
0	10	20 30	40	
		Operating		
Time	es and l	2	3	4
1			3 30kh 85%	4 40kh 90%
	1 IOkh	2 20kh	30kh	40kh
	1 10kh 75%	2 20kh 80% 6 Invalid	30kh 85% 7	40kh 90%

Note:

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

Graphic display

100.0% >

0 >

2.0s >

5

5.6steps/s >

Logarithmic >

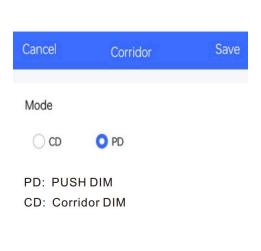
100.0mA >

MASK >

Disabled >

PD mode >

K 12CC	⇔	< 12CC
System failure level	100.0%	System failure level
Short address	0	Short address
Groups		Groups
Fade time	2.0s	Fade time
Fade rate	5.6steps/s	Fade rate
Dimming curve	Logarithmic	Dimming curve
Scenes		Scenes
farget current	100.0mA	Target current
Minimum current compensation	MASK	Minimum current compensation
Constant lumen operating	Disabled	Constant lumen operating
Corridor	PD mode	Corridor
Set All Attribu	tes	Set All Attri
Read From the	NFC Driver	Unlock it, and



Unlock it, and Click here to enter Corridor mode

Operation

Step 4: Enter CD Setting homepage

Cancel Corridor Save	Cancel Corridor	Save	Cancel Corr
de	Occupied time		Prolonged time
CD OPD	120	5	60
Preview ever (%) 80 80 40	Value range 0-60,000		Value range 0-60,000
	Occupied level		
	100	%	
Fade in Occupied Fade out Prolonged Dim to off	Value range 0-100		Prolonged level
	Fade out time		20
łe in time		s	Value range 0-100
		S	Value range 0-100 Dim to off time
5 s	5 Value range 0-100	S	
s s s compared time	5 Value range 0-100 Prolonged time	S	Dim to off time

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