

SUNRICHER

30W Constant Current Linear LED Driver with DALI-2 NFC

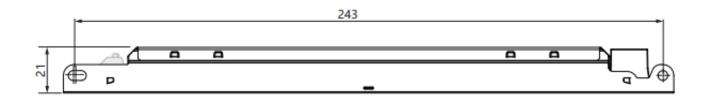


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Specification

		SRPL-2305N-30CC250-850
	DC Voltage Range	10 ~ 54V
	Rated current	250 ~ 850mA via NFC setting: Min. current gear lower to 0.1mA, Default 700mA
Output	Current Accuracy	±3% (±1%@Certain full load) @ full load
	Rated power	30W
	Voltage Range	220-240VAC
	Frequency range	50/60Hz
	Power Factor (Typ.)	> 0.97@230VAC (Full load)
	Total Harmonic Distortion	THD ≤ 3% (@ full load / 230VAC)
Input	Efficiency (Typ.)	>87% @ 230VAC full load
- 10 A	AC Current (Max)	0.2A @ 230VAC
	Inrush Current (Typ.)	Max. 6.04A 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=90°C
Liwionnen	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	245*30*21 mm (L*W*H)
Others	Weight	0.25kgs
	Warranty	5 Years
Notes	 DO NOT select dimming input with DO NOT install with power applied DO NOT expose the device to mois 	to device.

Mechanical Specification



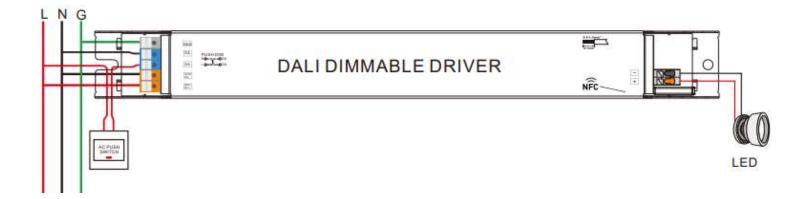
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Wiring Diagrams & Dimming





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:

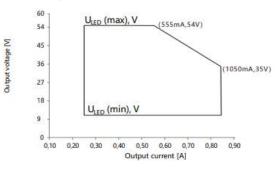
Note:

- 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

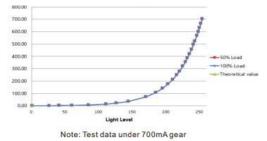
LED

Wiring Diagrams & Dimming

Operating Window

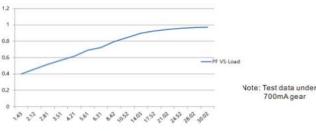


Dimming Curve



Driver Performance

PF VS Load



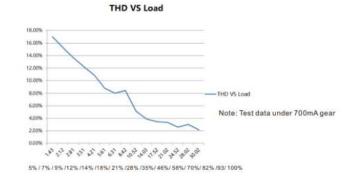
5% / 7% / 9% /12% /14% /18%/ 21% /28% /35%/ 46%/ 58%/ 70%/ 82% /93/ 100%

Driver Performance



5% / 7% / 9% /12% /14% /18%/ 21% /28% /35%/ 46%/ 58%/ 70%/ 82% /93/ 100%

Driver Performance



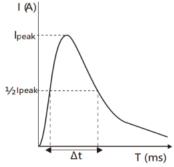
Expected Lifetime

Module Number	Output current	Та	30 °C	40 °C	45 °C		60 °C
SRPL-2305N-30CC250-850	250 - 850 mA	Тс	46 °C	55 °C	61 °C		90 °C(max)
SRPL-2309N-30CCT250-850	250 – 850 mA	Lifetime	> 100,000 h >	100,000 h	> 80,000 h	n	> 30,000 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				Мах	.qua	ntity	ofL	ED D	rive	r per	мсв	1				
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25	
SRPL-2305N-30CC250-850	6.04A	72µs	30	39	48	60	75	35	45	56	70	87	40	52	64	80	100	ļ,
SRPL-2309N-30CCT250-850	6.04A	72µs	30	39	48	60	75	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.

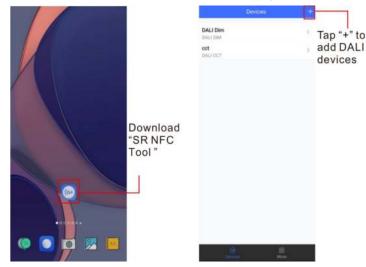
3. Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.

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.

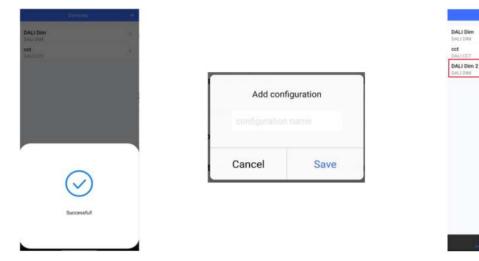
5.Type C MCB's are strongly recommended to use with LED lighting

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



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	•	Max level Min level
Product Id	0x01000001	Loonou	Product Id		0x01000001	UNIOCKIL		Mill leves
Target current	300.0mA		Options		>		0	Power on level System failure level
			Target current		300.0mA >		•	Short address Groups
							•	Fade time Fade rate
							•	Dimming curve
							•	Scenes
							•	Target current
							•	Low side current error compensation
Se	t All Attributes		Se	t All Attribute				Unselect All Select All
		ļ	NDM Syster	ns Ptv Ltd	E sale	es@admtech.c	on	n.au T 1300 236 467

Note:

Ready to Read

ce with the back of the r

Cancel

- 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
- 2. Only when the corresponding function is selected, the function interface will be displayed.

Document name: SRPL-2305N-30CC250-850 Data Sheet 29-10-24

Operation

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

4	DALI Dim 2 🗗	< DALI Dim 2	மீ	Cancel	Power on level	Save	Cancel	System failure level	Save	Cancel Fad	e rate	Save	Cance	6	6	roups		Save
Device Type	DALIDIM	Options	>	Level			Level				-	-		-	-	1.24		1120
Product Id	0x01000001	Max level	100.0% >	255 (MASK		- +	255 0		- +	7 (44,7steps/s)		+	0	<u> </u>	2	3		5
Options	5	Min level	0.100% >	200			255 0						6	7	8		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 lev	vel MASK >	Groups	>	Dimming curve			Dimming cu	irve										
Short address	0 >	Fade time Ex	itended fade >	O Logarithmic	C Linear		O Logarith	mic 🔿 Linear										
Groups	2	Fade rate	358steps/s >															
Fade time	Extended fade >	Dimming curve	Logarithmic >															
Fade rate	358steps/s >	Scenes																
Dimming curve	Logarithmic 3	Target current	300.0mA >															
Scenes	>	Low side current error compensation	0.100 >															
Set	All Attributes	Set All Attribute		Read		Write	Rea	d W	fritter	Read	We	ite .		Read			Writ	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 di	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	- 3 -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

	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	MARC 2	Enable	or Disable CLO	function
ant lumen operating	Disabled	Constant lumen operating	Disabled >			
or .	PD mode	Corridor	P0 made >			
Set All Attribut	100	Set All Altri	DUITHE			

Read From the NFC Driver

Unlock it, and Click here to enter CLO settings

Step 2: Enter CLO Setting homepage

ade :

Cone

cancel	: (0	Save
tevlew daa (aan 15) n n n		44	
mes and I		Tana (dh)	
1	2 romit	3 (14)(0)	4
5 11111	6 initi	2 Insalat	*
Arking ho	urs		() Pourts)
Rea	d	v	fritter



Enable CLO function

Click "1", and set its time and level

System failure leve

Short address Groups

Fade time

Fade rate

Dimming curve

Target current

Minimum curren

Constant lumen operating

compensatio

Corridor



Note:

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

Set your desired time and levels. Graphic display

100.0% >

0.2

2.0s >

5.6steps/s >

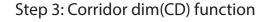
Logarithmic >

100.0mA 3

MASK >

Disabled >

PD mode



	100000	1.00
System failure lev	el	100.0%
Short address		0
Groups		
Fade time		2.0s
Fade rate		5.6steps8
Dimming curve		Logarithmic
Scenes		
Target current		100.0mA
Minimum current compensation		MASK
Constant lumen o	operating	Disabled
Corridor		PD mode



Unlock it, and Click here to enter Corridor mode

1300 236 467

Cancel

Mode

O CD

PD: PUSH DIM

CD: Corridor DIM

Corridor

O PD

Save

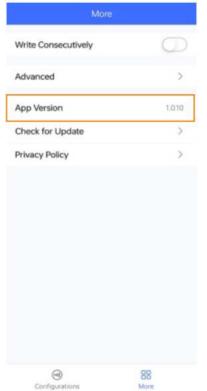
Operation

Step 4: Enter CD Setting homepage

O CD O PD		Occupied ti	me			
		120			Prolonged tim	не
review w/mi		Value range 0	5 0-60,000		60 Value range 0-6	s 0,000
		Occupied le) Infinite	
Fade in Occupied Fade o	a Belgerand Dire to off	100 Value range 0	%		Prolonged lev	el
ide in time	en Pronegour antonious	Fade out tir	ne		20 Value range 0-10	%
5	s	5 Value range 0	5 0-100		Dim to off tim	e
lue range 0-100		Prolonged t	áme		5 Value range 0-10	s
Read	Write	Read	d Wr	ite.	Read	W

- Notes:
- You should select either CD mode or PD mode, but not both. 1.
- 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