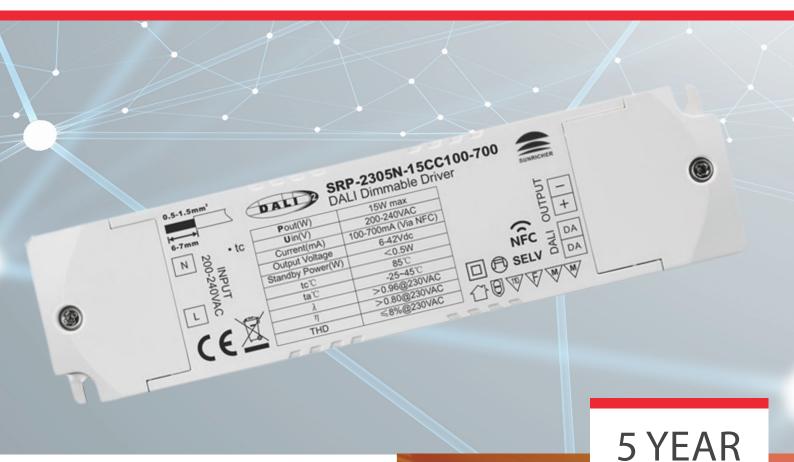


SUNRICHER



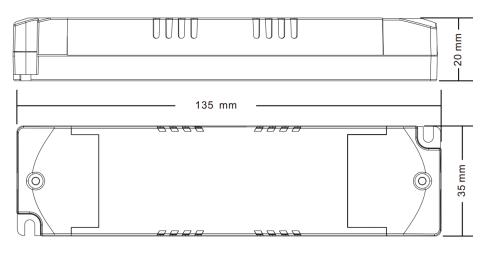
15W Compact Constant Current LED Driver with DALI-2 NFC



Specification

		SRP-2305N-15CC100-700
	DC Voltage Range	6~42V
	Rated current	100-700mA via NFC setting; Min.current gear lower to 0.1mA
Output	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated power	15W
	Voltage Range	220-240VAC
	Frequency range	50/60Hz
	Power Factor (Typ.)	> 0.96@230VAC Full load
	Total Harmonic Distortion	THD ≤ 8% (@ full load / 230VAC)
Input	Efficiency (Typ.)	>80% @ 230VAC full load
1.1	AC Current (Max)	0.1A @ 230VAC
	Inrush Current (Typ.)	Max. 3.96A at 230VAC; 90µs 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℃
Environment	Max. Case Temp	TC=85°C (Ta="45°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	135*35*20 mm (L*W*H)
Others	Weight	0.15kgs
	Warranty	5 Years
Notes	1. DO NOT install with power applied 2. DO NOT expose the device to mois	

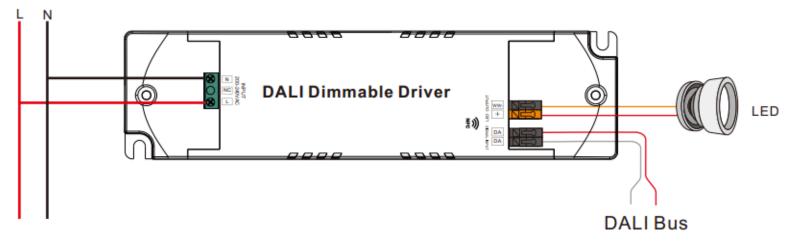
Mechanical Specification



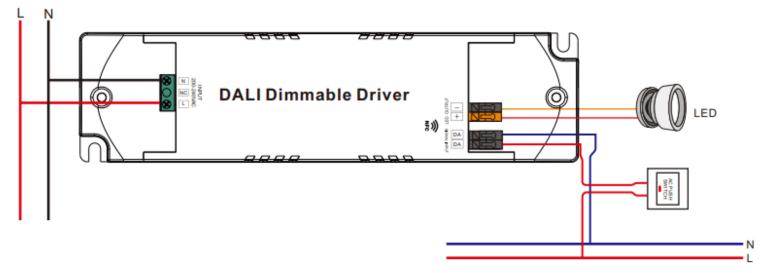
- Input Voltage Terminal: 2 pole terminal (same as the diagram)
- DALI or PUSH Dim Terminals: 2 pole terminals
 - Output LED's: 2 pole terminal block: Positive (+), Negative (-)

Wiring Diagrams & Dimming

DALI



Push Dimming



Operation

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:

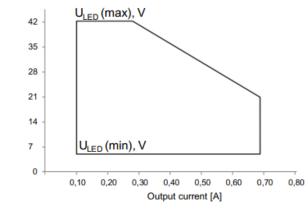
Note:

- 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

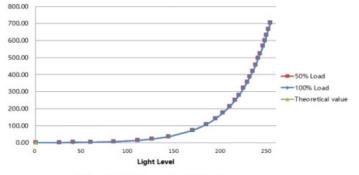
Wiring Diagrams & Dimming

Operating Window

Output voltage [V]



Dimming Curve

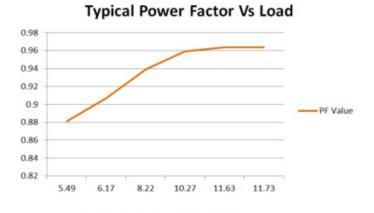


Note: Test data under 700mA gear

Driver Performance

Typical Efficiency Vs Load 82.00% 80.00% 78.00% 76.00% Efficiency 74.00% 72.00% 70.00% 68.00% 5.49 8.22 10.27 11.63 6.17 11.73 Note: Test data under 700mA gear

Driver Performance



Note: Test data under 700mA gear

MCB Load Quality

I (A) Ipeak Twidth Max.quantity of LED Driver per MCB Module Number C10 C13 C16 C20 C25 D10 D13 D16 D25 Ipeak B25 D20 B10 B13 B16 B20 SRP-2305N-15CC100-700 90µs 37 3.96A 49 60 75 63 100 125 160 200 94 81 156 80 104 128 1/2 Ipeal SRP-2309N-15CCT100-700 3.96A 90µs 37 49 60 75 94 63 81 100 125 156 80 104 128 160 200 Δt T (ms)

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.

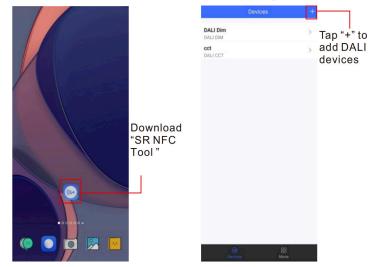
3. Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.

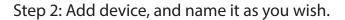
4. When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation

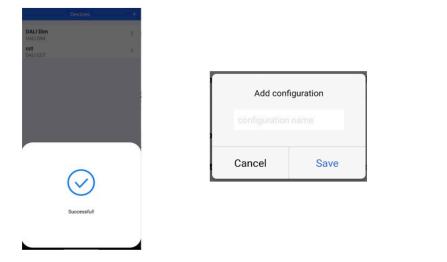
5.Type C MCB's are strongly recommended to use with LED lighting

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.

<	DALI Dim 2		<	DALI Dim 2	ď		<	Options
Device Type	DALI DIM	Locked	Device Type		DALI DIM	 Unlock it	0	Max level Min 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	et All Attribute	5			Unselect All Select All
		,	DM Syster	ma Dtuil ta		es@admtech.c		n.au T 1300 236 467

Note:

Ready to Read

uch the device with the back of the mobil device.

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	Fade rate	Save	Cance		G	roups		Save
Device Type	DALI DIM	Options	>	Level			Level					_		_				
Product Id	0x01000001	Max level	100.0% >	255 (MAS)		- 1 - +	255 (M	4.5%)	- + +	7 (44.7steps/s)		- +	0	1	2	3	4	5
Options	>	Min level	0.100% >	200 (111-0)			233 (14	non)			0		6	7	8	9	10	11
Max level	100.0% >	Power on level	MASK >			-0			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 le	evel MASK >	Groups	>	Dimming curve			Dimming cu	rve										
Short address	0 >	Fade time	Extended fade >	 Logarithmic 	O 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	t All Attributes	Set All Attril	putes	Read	W	rite	Rea	d V	Vrite	Read		Write		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	Dim 2 🗗	<
ene O	level MASK >				Options	×	Options
ene 1	level MASK >	3000		300.0mA 1=0.1mA	Max level	100.0% >	Max level
ene 2	level MASK >	Value range	1000-50000		Min level	0.100% >	Min level
me 3	level MASK >						
ne 4	level MASK >				Power on level	MASK >	Power on leve
e 5	level MASK >				System failure level	MASK >	System failure
e 6	level MASK >				Short address	0 >	Short address
7	level MASK >				Groups	>	Groups
e 8	level MASK >				Fade time	5.7s >	Fade time
9	level MASK >						
10	level MASK >				Ready	to Write	
e 11	level MASK >				6		
ne 12	level MASK >				(
e 13	level MASK >						
ne 14	level MASK >				Touch the device with dev		
ne 15	level MASK >						
					Car	ncel	
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

Fade tim

larget c

	۵	< 12CC	ස්			
ailure level	100.0%	System failure level	100.0% >			
dress	0	Short address	0 >			
		Groups	>	Cancel	CLO	S
e	2.0s	Fade time	2.0s >	Curreer	CLU	Ŭ
1	5.6steps/s	Fade rate	5.6steps/s >	14	1	0
curve	Logarithmic	Dimming curve	Logarithmic >	Constant lume	en enable	\bigcirc
		Scenes	>			
irrent	100.0mA	Target current	100.0mA >	Working hour	S	0 hou
n current sation	MASK	Minimum current compensation	MASK >	Enable o	or Disable CLO	function
lumen operating	Disabled	Constant lumen operating	Disabled >			
	PD mode	Corridor	PD mode >			
Cot All Attailant	0.0	Set All Attribu	ites			

Read From the NFC Driver

Unlock it, and Click here to enter CLO settings

Step 2: Enter CLO Setting homepage

ever texer (N)
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
Queuery Ine (H) s and Levels 1 2 3 4 Inuald Inuald Inuald 5 6 7 8
Queuery Ine (H) s and Levels 1 2 3 4 Inuald Inuald Inuald 5 6 7 8
Queuery Ine (H) s and Levels 1 2 3 4 Inuald Inuald Inuald 5 6 7 8
s and Levels 1 1 2 3 4 Invalid Invalid Invalid 5 6 7 8
s and Levels 1 1 2 3 4 Invalid Invalid Invalid 5 6 7 8
s and Levels 1 1 2 3 4 Invalid Invalid Invalid 5 6 7 8
s and Levels 1 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
salid Invalid Invalid Invalid 5 6 7 8
salid Invalid Invalid Invalid 5 6 7 8
cing hours 0 hour(s)
0 1000 (0)
Read Write

Time	
10 kh	
Value range 1-100	
Level	
75 %	
Value range 1-100	

Enable CLO function

Click "1", and set its time and level

System failure level

Short address Groups

Fade time

Fade rate

Scenes

Dimming curve

Target current

Minimum current

Constant lumen operating

compensation

Corridor



Note:

ave

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

Set your desired time and levels. Graphic display

100.0% >

0 >

2.0s >

5.6steps/s >

Logarithmic >

100.0mA >

MASK >

Disabled >

PD mode >

Step 3: Corridor dim(CD) function

		۵
System failure le	evel	100.0%
Short address		0
Groups		
Fade time		2.0s
Fade rate		5.6steps/s
Dimming curve		Logarithmic
Scenes		
Target current		100.0mA
Minimum curren compensation	nt	MASK
Constant lumen	operating	Disabled
		PD mode

Read From the NFC Driver

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

Cancel Corridor Save	Cancel Corridor	Save	Cancel Corr
de	Occupied time		Prolonged time
CD OPD	120 s	;	60
view	Value range 0-60,000		Value range 0-60,000
	Occupied level) Infinite
	100 9	6	
Fade in Occupied Fade out Prolonged Dim to off	Value range 0-100		Prolonged level
	Fade out time		20
	1000 000 000		
le in time	5 5		Value range 0-100
		i .	Value range 0-100 Dim to off time
5 s	5 Value range 0-100		
s s s s s s s s s s s s s s s s s s s	5 5		Dim to off time

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