

SRPL-2305N-60CC900-1700 DALI DT6 Dimmable Driver

SUNRICHER

SELV WWW CEUK

(Sec

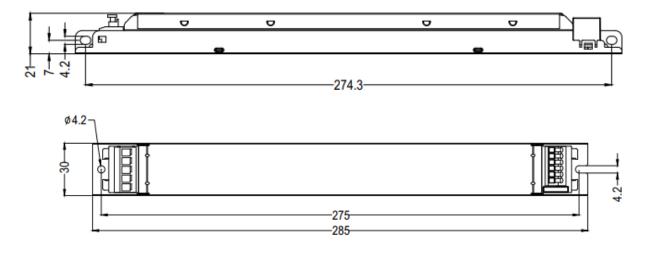
60W Constant Current Linear LED Driver with DALI-2 NFC



Specification

		SRPL-2305N-60CC900-1700
	DC Voltage Range	10 ~ 54V
.	Rated current	900-1700mA via NFC setting; Min.current gear lower to 0.1mA,Default 1500mA
Output	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated power	60W
	Voltage Range	220-240VAC
	Frequency range	50/60Hz
	Power Factor (Typ.)	> 0.98@230VAC (Full load)
	Total Harmonic Distortion	THD ≤ 5% (@ full load / 230VAC)
Input	Efficiency (Typ.)	>87% @ 230VAC full load
	AC Current (Max)	0.4A @ 230VAC
	Inrush Current (Typ.)	Max.25.9A at 230VAC; 148µs 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
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	285x30x21 mm (L*W*H)
Others	Weight	0.30kgs
	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

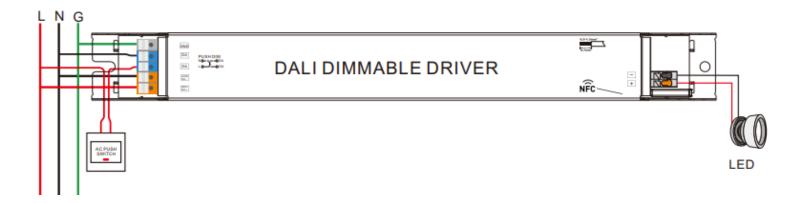


Wiring Diagrams & Dimming





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:

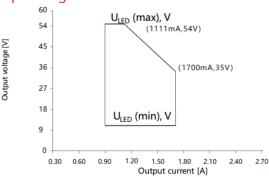
Note:

- 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

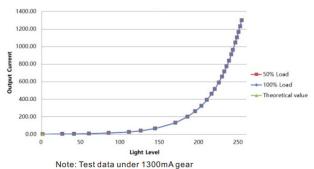
LED

Wiring Diagrams & Dimming

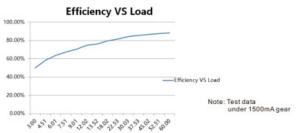
Operating Window



Dimming Curve

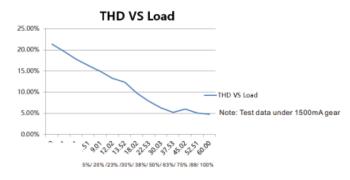


Driver Performance

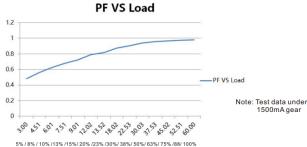


5% / 8% / 10% /13% /15% / 20% /23% /30% / 38% / 50% / 63% / 75% /88/ 100%

Driver Performance



Driver Performance



Expected Lifetime

Module Number	Output current	Та	30 °C	40 °C	45 °C	•••	60 °C
SRPL-2305N-60CC900-1700	900 – 1700 mA	Тс	52 °C	62 °C	66 °C	•••	90 °C(max)
SRPL-2309N-60CCT900-1700	900 – 1700 mA	Lifetime	> 100,000 h	> 80,000 h	> 60,000 h	n	> 25,000 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	lpeak	Twidth		B13	B16			ntity				c25	MCB	D13	D16	D20	D25	I (A)
3RPL-2305N-60CC900-1700	25.9A	148µs	15	20	24	30	38	18	23	28	35	44	20	26	32	40	50	1/21peak
SRPL-2309N-60CCT900-1700	25.9A	148µs	15	20	24	30	38	18	23	28	35	44	20	26	32	40	50	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.

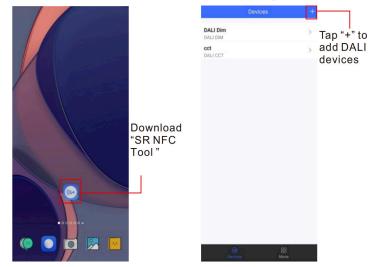
4. When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.

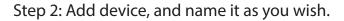
5. Type C MCB's are strongly recommended to use with LED lighting

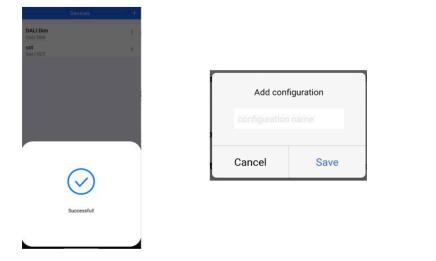
ADM Systems Pty Ltd E sales@admtech.com.au 1300 236 467

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	â	<u> </u>	<	DALI Dim 2	ര്		<	Options
Device Type	0	DALI DIM	Locked	Device Type		DALI DIM	Unlock it	0	Max level Min level
Product Id	0×0	1000001	Loonou	Product Id		0x01000001	OTHOCK IL		win ievei
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 Attributes				Unselect All Select All

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

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
- 2. 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	2 6	Cancel	Power on level	Save	Cancel Syst	em failure level	Save	Cancel Fade	ate Save	Cance	6	Gro	oups	Sa	ave
Device Type	DALI DIM	Options	>	Level			Level			-	_		-				
Product Id	0x01000001	Max level	100.0% >	255 (MA	SK)	- +	255 (MASK)	-	+	7 (44.7steps/s)	- +	0	1	2	3 .	4 5	
Options	>	Min level	0.100% >				200 (mnon)					6	7	8	9 1	0 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 le	wel MASK >	Groups	>	Dimming curv	ve.		Dimming curve										
Short address	0 >	Fade time	Extended fade >	 Logarithm 	ic CLinear		 Logarithmic 	O 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 >														
Set	All Attributes	Set All Attribu	utes	Read		Write	Read	Writ	ite	Read	Write		Read			Write	

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

	Scenes	Cancel	Target current	Save	< DALI	Dim 2 🗗	<
ne 0	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
ne 3	level MASK >						
ne 4	level MASK >				Power on level	MASK >	Power on leve
ne 5	level MASK >				System failure level	MASK >	System failure
ne 6	level MASK >				Short address	0 >	Short address
ne 7	level MASK >				Groups	>	Groups
ne 8	level MASK >				Fade time	5.7s >	Fade time
ne 9	level MASK >						
10	level MASK >				Ready t	to Write	
11	level MASK >				6		
e 12	level MASK >				(
e 13	level MASK >						
ne 14	level MASK >				Touch the device with dev		
ne 15	level MASK >				dev	iue.	
					Can	icel	
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

Target c

		ස්	12CC		
		100.0% >	em failure level	100.0%	ire level
		0 >	rt address	o	55
0.0	Cancel	>	ups		
CLO	Cancer	2.0s >	e time	2.0s	
		5.6steps/s >	e rate	5.6steps/s	
nen enable	Constant lume	Logarithmic >	ming curve L	Logarithmic	irve L
		>	nes		
rs 0 ho	Working hours	100.0mA >	et current	100.0mA	ent
or Disable CLO function	Enable or	MASK >	mum current pensation	MASK	urrent
		Disabled >	stant lumen operating	Disabled	men operating
		PD mode >	idor	PD mode	
					P-1 10 11-0-0

Read From the NFC Driver

Unlock it, and Click here to enter CLO settings

Step 2: Enter CLO Setting homepage

eview			
tput Level (%)			
0			
,			
	Invi	bit	
1			
0			
	Operating	Time (kh)	
1 Invalid	2 Invalid	3 Invalid	4 Invalid
5	6	7	8
Invalid	Invalid	Invalid	Invalid
orking ho	ours		0 hour(s)
Rea	d	W	/rite



Enable CLO function

Click "1", and set its time and level

	C		S
Preview			
Output Level (%)			
100			
80			
60			
40			
20			
0 10	20 50	40	
Times and		Time (kh)	6
Times and 1 10kh 75%		3 30kh 85%	4 40ki 90%
1 10kh	Levels 2 20kh	3 30kh	40k
1 10kh 75%	Levels 2 20kh 80% 6 Invald	3 50kh 85% 7 Invatid	40ki 90%

Note:

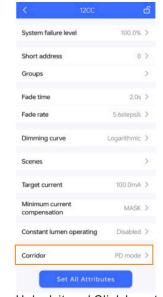
ave

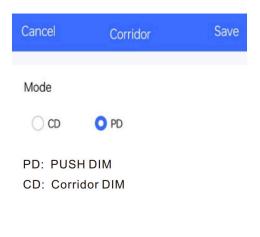
1. Working hours : Ability to calculate the working hours of a single driver

Set your desired time and levels. Graphic display

Step 3: Corridor dim(CD) function

System failure lev	el 100.05	%
Short address		0
Groups		
Fade time	2.0	Is
Fade rate	5.6steps	ls
Dimming curve	Logarithmi	ic
Scenes		
Target current	100.0m	A
Minimum current compensation	MAS	K
Constant lumen o	perating Disable	d
Corridor	PD mod	e
Set A	All Attributes	





Unlock it, and Click here to enter Corridor mode

ADM Systems Pty Ltd **E** sales@admtech.com.au

T 1300 236 467

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

