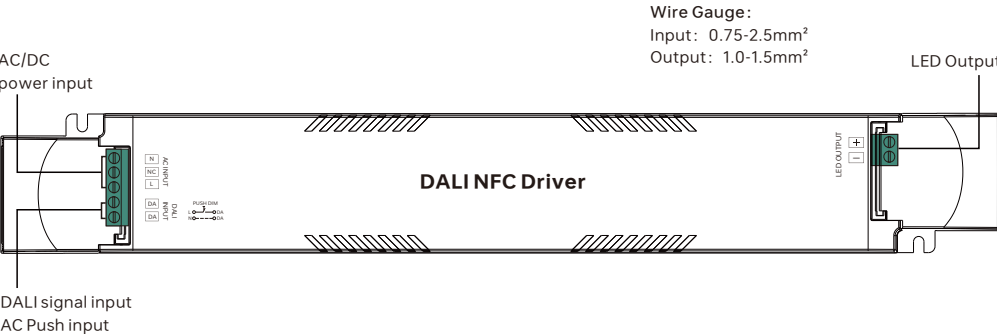


100W 24V DALI DT6 NFC LED Driver(Constant Voltage)



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

Output	LED Channel	1
	DC Voltage	24VDC
	Max. Current	Max. 4.17A
	Voltage Range	Default 24V, Max.10% adjusting range. ±3% Accuracy at full-load
	Rated Power	Max. 100W
Input	Voltage Range	220-240VAC/220-240VDC
	Absolute Voltage Range	196-264VAC/196-264VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.99 @ 230VAC Full load*
	Total Harmonic Distortion (Typ.)	THD ≤ 10% (@ full load / 230VAC)*
	Efficiency (Typ.)	> 91% @ 230VAC full load*
	AC Current (Typ.)	0.5A@230VAC
	Inrush Current (Typ.)	Max. 38A at 230VAC; 282μs duration
	Leakage Current	< 5mA /230VAC
	Standby Power Consumption	< 0.5W
	Anti Surge	L-N:2KV
Control	Dimming Interface	DALI Device Type 6 (DALI consumption < 2mA)/ AC Push
	Dimming Range	0.1%-100%@ Max current
	Dimming Method	HF PWM dimming
	Dimming Curve	Linear/ Logarithmic optional

Protection	Short Circuit	Yes, remove the fault conditions and re-power the device.
	Over Current	Yes, remove the fault conditions and re-power the device.
	Over Temperature	Yes, remove the fault conditions and re-power the device.
Environment	Working Temp.	-25℃ ~ +45℃
	Max. Case Temp.	Tc=85℃
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH
Safety & EMC	Safety Standards	EN61347-1, EN61347-2-13, GB/T 19510.1-2023, GB/T 19510.213-2023
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3, GB 17625.1-2022, GB/T 17743-2021
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11
Others	MTBF	191350H, MIL-HDBK-217F @ 230VAC full load and 25℃ ambient temperature
	Dimension	306.6x43x30mm (L*W*H)
	Warranty	5 Years

*. PF/THD/Eff shall be different per different testing setup and equipment. Reference Only.

- In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2
- Built-in DALI-2 interface, DALI DT6 device
- Dimmable LED driver. Max. output power 100W
- 1 channel DC 24V constant voltage output
- DALI Address/Group/Scene setting via NFC program tool.
- Class II power supply, full isolated plastic case
- High power factor and efficiency
- Capable of ON/OFF, brightness control
- HF PWM dimming, smooth and deep dimming
- Compatible with universal DALI masters that support DT6 commands
- DALI-251/252/253 Enabled, DALI data inside. Error report function
- IP20 rating, suitable for indoor LED lighting applications
- 5 years warranty

Safety & Warnings

- DO NOT install with power applied to the device.
- DO NOT expose the device to moisture.

Operation

With DALI master

1. DALI Address
1 DALI address for 1 channel output is assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

With NFC Programming devices

Note

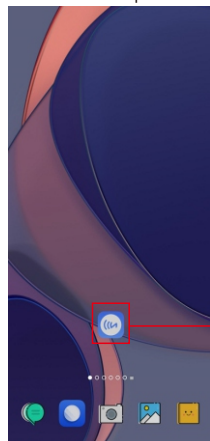
1) Do wiring according to the wiring diagram and power on the DALI system .

2) Recommend setting parameters without power-on the DALI devices .

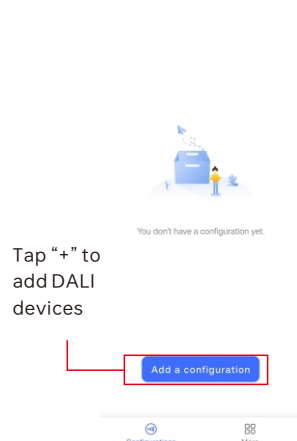
2) Please make sure your mobile phone has NFC function and enable it .

Working with “SR NFC Tool” APP

Step 1: Download the APP (searching “SR NFC Tool” from App Store and Google Play) .
Then open the APP .



Download
“SR NFC
Tool”



Tap “+” to
add DALI
devices

Note: 1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet .

2. Please Make sure that the “NFC position” is matched.

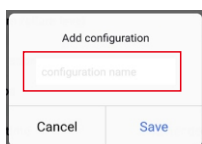
3. Please do not power on the device before setting.

4. If you can't download “SR NFC Tool”. Please contact with us.

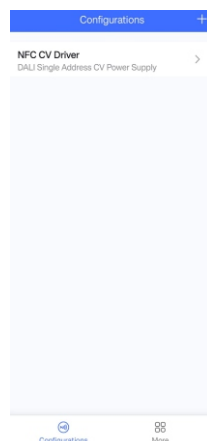
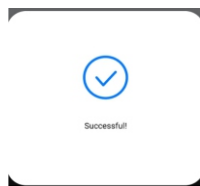
Step 2: Add device, and name it as you wish.



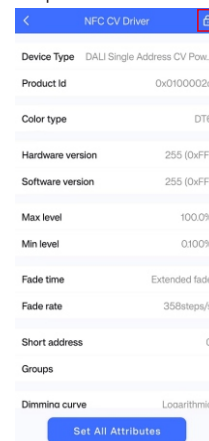
Add device



Name it



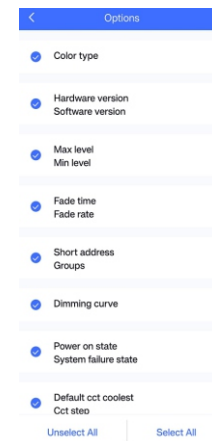
Step 3: Unlock device, enter parameters configuring page.



Locked



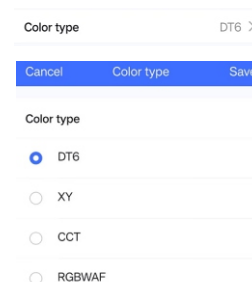
Unlock it



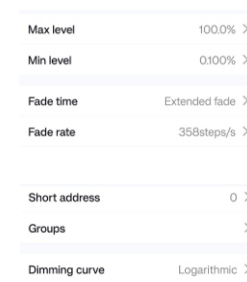
Note: 1. You have to unlock the device then do some settings

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

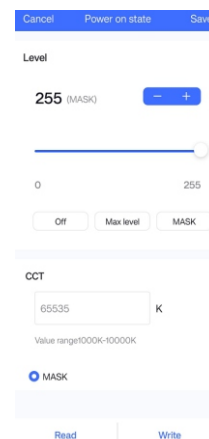
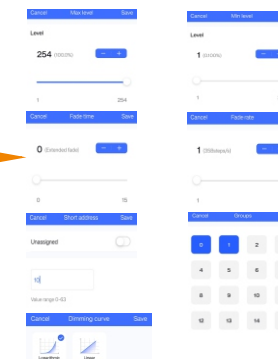
Step 4: Few parameter interface, you can choose the setting based on your requirements.



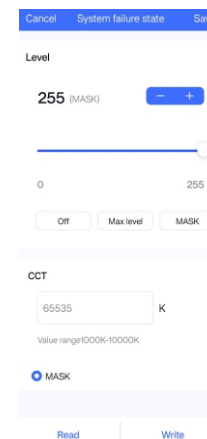
1CH output please select DT6 Mode
“XY/CCT/RGBWAF” are reserved for 4CH
Version.



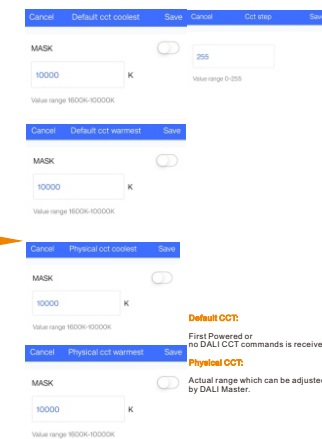
Typical DALI Parameter settings



*CCT page here is for reference!



*CCT page here is for reference!



*CCT page here is for reference!

<	Scenes	Save
Scene 0	level MASK CCT MASK >	
Scene 1	level MASK CCT MASK >	
Scene 2	level MASK CCT MASK >	
Scene 3	level MASK CCT MASK >	
Scene 4	level MASK CCT MASK >	
Scene 5	level MASK CCT MASK >	
Scene 6	level MASK CCT MASK >	
Scene 7	level MASK CCT MASK >	
Scene 8	level MASK CCT MASK >	
Scene 9	level MASK CCT MASK >	
Scene 10	level MASK CCT MASK >	
Scene 11	level MASK CCT MASK >	
Scene 12	level MASK CCT MASK >	
Scene 13	level MASK CCT MASK >	

Cancel
Scene 0
Save

Level

254 (100.0%)

0 255

Off Max level MASK

CCT

4000 K

Value range: 1000K-10000K

☐ MASK

Set all to Mask

*CCT page here is for reference!

Cancel
Scene 1
Save

Level

0 (0.000%)

0 255

Off Max level MASK

CCT

65535 K

Value range: 1000K-10000K

☒ MASK

Set all to Mask

*CCT page here is for reference!

Output voltage adjustment MASK >

Max. 10% extra adjusting voltage ability.

Enable the customer fine-tune the performance on-site.

Cancel
Output voltage adjustm...
Save

255 (MASK)

0 100

MASK ☒

Cancel
Output voltage adjustm...
Save

35 (0.5V)

0 100

MASK ☐

PWM output frequency 1.5kHz >

RGBWAF output type Standard output >

PWM Frequency free to select. Recommend value:

Residential Lighting: 1.5Khz or 3.3Khz
Commercial Lighting: 3.3Khz

High-end builing/ Luxury Store: 9.9Khz

PWM output frequency

500Hz

3.3kHz

9.9kHz

19.8kHz

244Hz

1.5kHz

RGBWAF output type

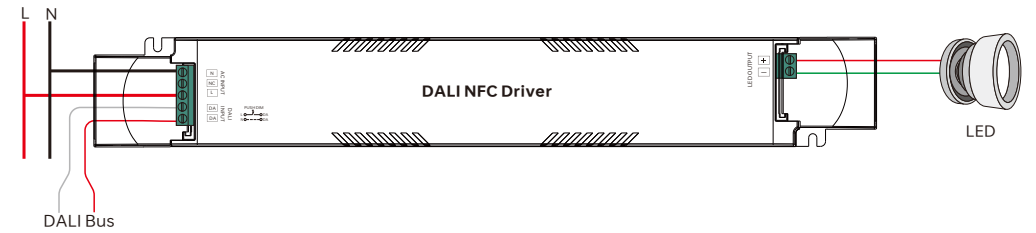
Standard output ☒

Special output

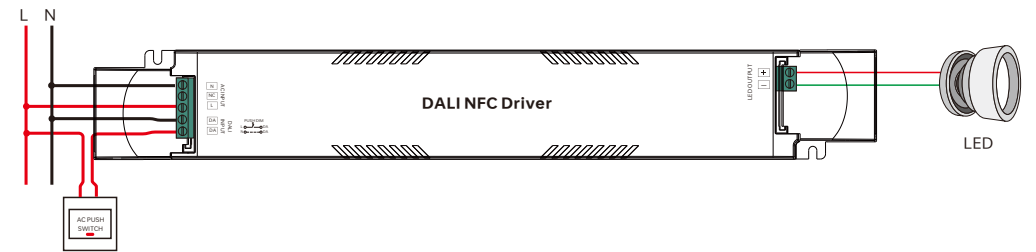
Wiring Diagram

1. With DALI bus

1.1 With single color LED luminaire



2. With PUSH dimmer

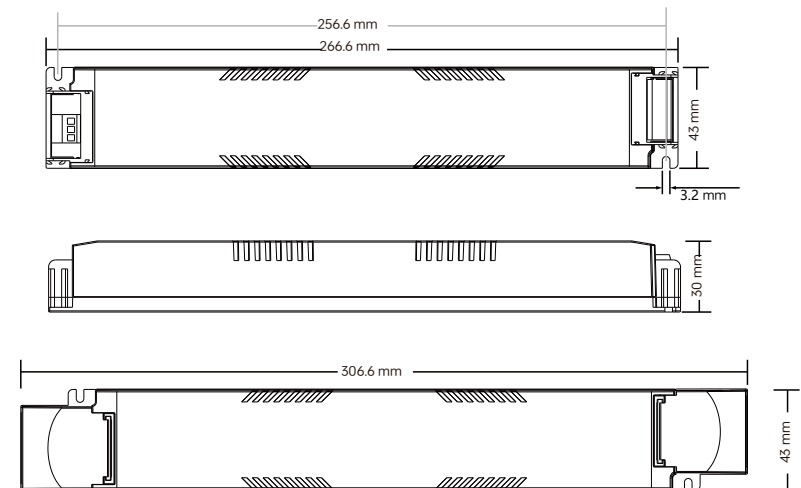


AC Push Function

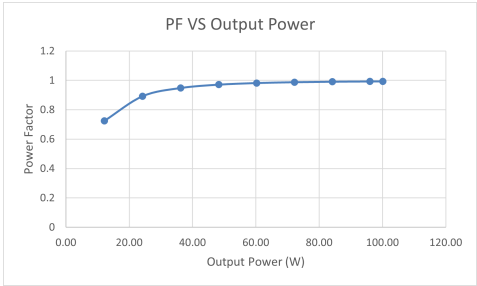
1) Click the button to switch ON/OFF

2) Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.

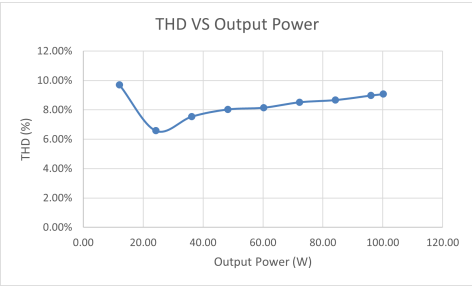
Product Dimension



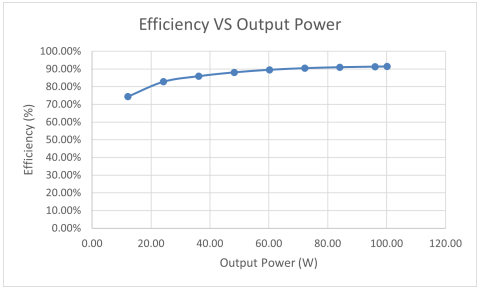
Electrical Performance



Note: Test data under 24V



Note: Test data under 24V



Note: Test data under 24V

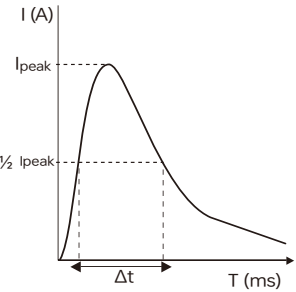
Expected Lifetime

Module Number	Output votage	Ta	30 °C	40 °C	45 °C
SRP-2305N-24-100LCV	24V	Tc	65 °C	77 °C	85 °C
SRP-2309N-24-100LCVF	24V	Lifetime	> 100,000 h	> 80,000 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 Quantity

Module Number	Ipeak	Twidth	Max.quantity of LED Driver per MCB															
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25	
SRP-2305N-24-100LCV	38A	282μs	6	7	9	11	14	9	12	15	19	24	16	21	26	32	40	
SRP-2309N-24-100LCVF	38A	282μs	6	7	9	11	14	9	12	15	19	24	16	21	26	32	40	



- 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

Update log

Date	Version	Update content	Update by
2025-12-15	V1.1	Parameter Update	Romeo

Note: Subject to change without notice. Please contact us if you have any questions.