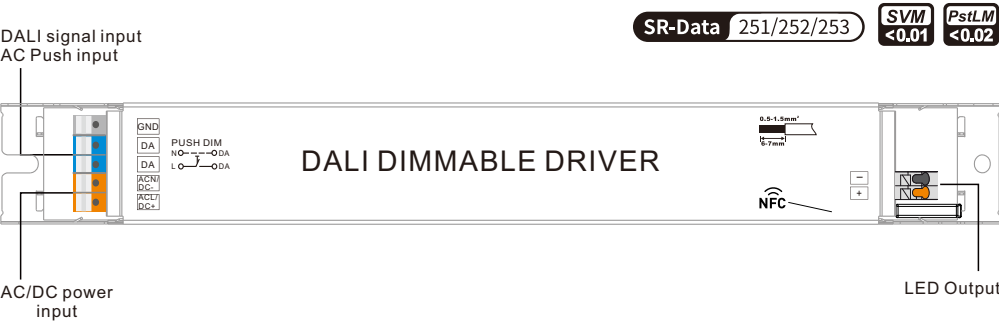


30W DALI DT6 NFC Enabled LED Driver(Constant Current)



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

Output	LED Channel	1
	DC Voltage	10-54V, Max.60V
	Current	250-850mA via NFC setting; Min.current gear lower to 0.1mA,Default 700mA
	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated Power	Max. 30W
Input	Voltage Range	220-240VAC/ 176-280VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.96 @ 230VAC Full load*
	Total Harmonic Distortion	THD ≤ 12% (@ full load / 230VAC)*
	Efficiency (Typ.)	> 83% @ 230VAC full load*
	AC Current (Typ.)	0.16A Max.
	Inrush Current (Typ.)	Max. 6.04A at 230VAC; 72µs duration
	Leakage Current	< 5mA /230VAC
	Standby Power Consumption	< 0.5W
Control	Anti Surge	L-N:2KV
	Dimming Interface	DALI Device Type 6 (DALI consumption < 2mA)/ AC Push
	Dimming Range	0.01%-100%@ Max current
	Dimming Method	Amplitude/CCR dimming
	Dimming Curve	Linear/ Logarithmic optional

Protection	Short Circuit	Yes, recovers automatically after fault condition is removed
	Over Current	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after temperature drop
Environment	Working Temp.	-25°C ~ +60°C
	Max. Case Temp.	TC=90°C
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40°C ~ +80°C, 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°C / 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°C ambient temperature
	Dimension	245x30x21mm (L*W*H)
	Warranty	5 Years

- *: PF/THD/Eff shall be different per different testing setup and equipment.
- 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 with linear metal housing. Max. output power 30W
 - 250-850mA current selectable via NFC program tool. Min.current gear lower to 0.1mA
 - DALI Address/Group/Scene setting via NFC program tool.
 - Class II power supply, isolated design
 - High power factor and efficiency
 - To switch and dim LED lighting luminaries
 - Amplitude/CCR dimming, smooth and deep dimming
 - Compatible with universal DALI masters that support DT6 commands
 - DALI-251/252/253 Enabled, DALI data inside
 - 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 are assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

The figure displays six screenshots of a DALI dimmer control interface, organized into three rows and two columns.

Top Row (Main Configuration):

- Screen 1 (Left):** Shows the main configuration screen for "DALI Dim 2". It includes fields for "Device Type" (DALI DIM), "Product Id" (0x01000001), and a list of options: "Max level" (100.0%), "Min level" (0.100%), "Power on level" (MASK), "System failure level" (MASK), "Short address" (0), "Groups", "Fade time" (Extended fade), "Fade rate" (358steps/s), "Dimming curve" (Logarithmic), and "Scenes". A "Set All Attributes" button is at the bottom.
- Screen 2 (Right):** Shows the "Options" screen for "DALI Dim 2". It includes fields for "Max level" (100.0%), "Min level" (0.100%), "Power on level" (MASK), "System failure level" (MASK), "Short address" (0), "Groups", "Fade time" (Extended fade), "Fade rate" (358steps/s), "Dimming curve" (Logarithmic), "Scenes", "Target current" (300.0mA), and "Low side current error compensation" (0.100%). A "Set All Attributes" button is at the bottom.

Middle Row (Level and Dimming Curve):

- Screen 3 (Left):** Shows the "Level" screen. It displays the current level as "255 (MASK)" with a slider ranging from 0 to 255. Below the slider is a "Dimming curve" section with radio buttons for "Logarithmic" (selected) and "Linear".
- Screen 4 (Right):** Shows the "Dimming curve" screen. It displays the selected "Logarithmic" curve with a "Read" and "Write" button at the bottom.

Bottom Row (Groups and Level):

- Screen 5 (Left):** Shows the "Groups" screen. It displays the current group as "1" with a list of groups (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15). Below the list is a "Level" section with a slider ranging from 0 to 255. Below the slider is a "Dimming curve" section with radio buttons for "Logarithmic" (selected) and "Linear".
- Screen 6 (Right):** Shows the "Level" screen. It displays the current level as "5 (2.8s)" with a slider ranging from 0 to 15. Below the slider is a "Dimming curve" section with radio buttons for "Logarithmic" (selected) and "Linear".

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



Tips

- 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

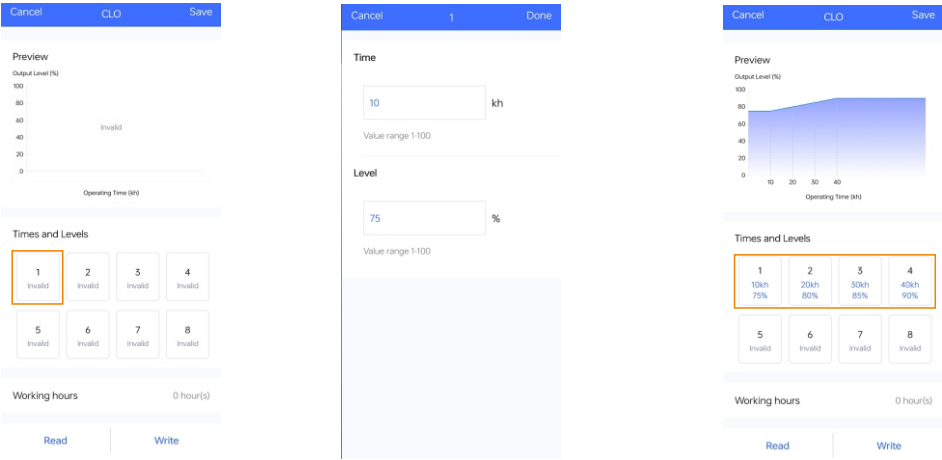
1.Open APP, and Find the CLO/CD functions



Read From the NFC Driver

Unlock it,and Click here to enter CLO settings

2.Enter CLO Setting homepage



Enable CLO function

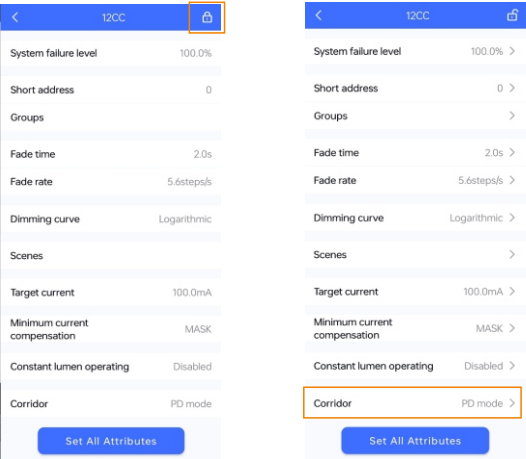
Click "1",and set its time and level

Set your desired time and levels.
Graphic display

Tips:

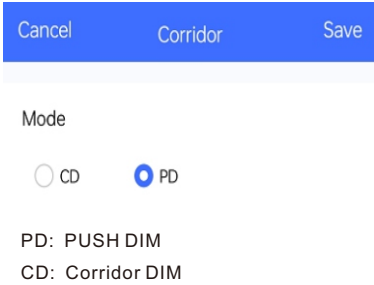
Working hours : Ability to calculate the working hours of a single driver.

3.Corridor dim(CD) function



Read From the NFC Driver

Unlock it,and Click here to enter Corridor mode



4. Enter CD Setting homepage

Cancel Corridor Save

Mode

☒ CD ☐ PD

Preview

Fade in time

5 s

Value range 0-100

Occupied time

120 s

Value range 0-60,000

Occupied level

100 %

Value range 0-100

Fade out time

5 s

Value range 0-100

Prolonged time

60 s

Value range 0-60,000

Prolonged level

20 %

Value range 0-100

Dim to off time

5 s

Value range 0-100

Read Write

Enter CD mode

Tips:

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.
3. Default mode: PD mode.

Additional Remarks

More

Write Consecutively ☐

Advanced >

App Version 1.0.10

Check for Update >

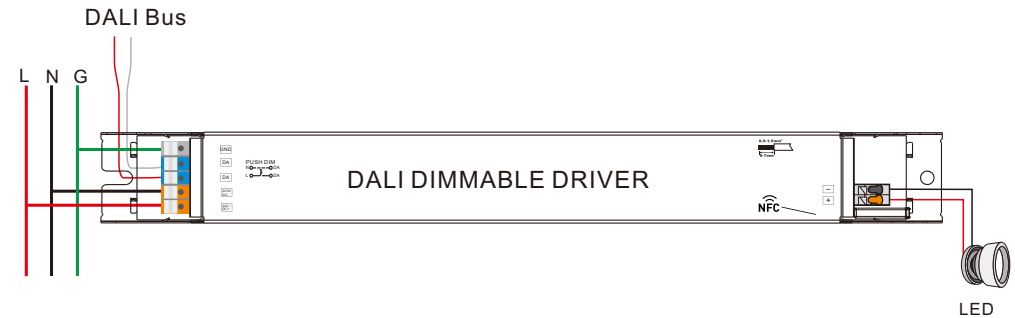
Privacy Policy >

Configurations More

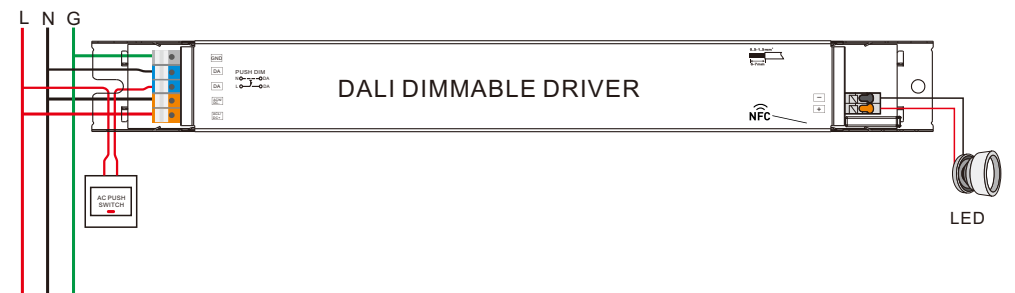
1. Please make sure your APP version is 1.0.10 or higher.
2. Please make sure NFC driver's firmware is available with CLO / CD functions.

Wiring Diagram

1. With DALI bus



2. With PUSH dimmer

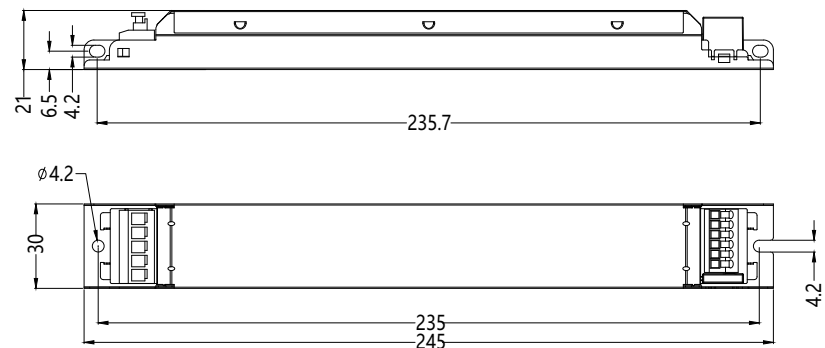


AC Push Function

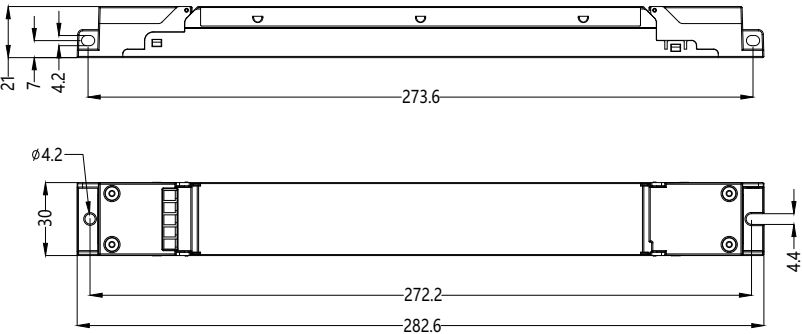
- 1) Click the button to switch ON/OFF
- 2) Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.

Product Dimension

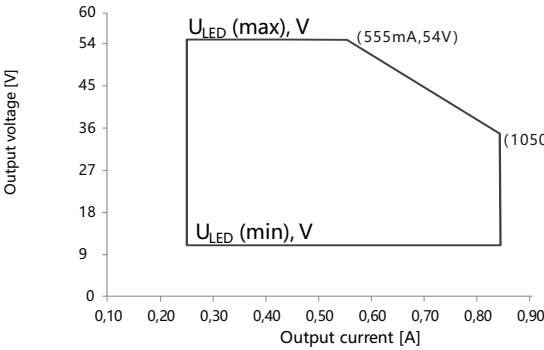
Without End Cap



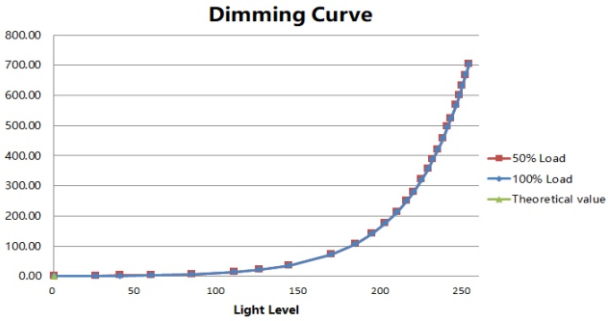
With End Cap



Operating window



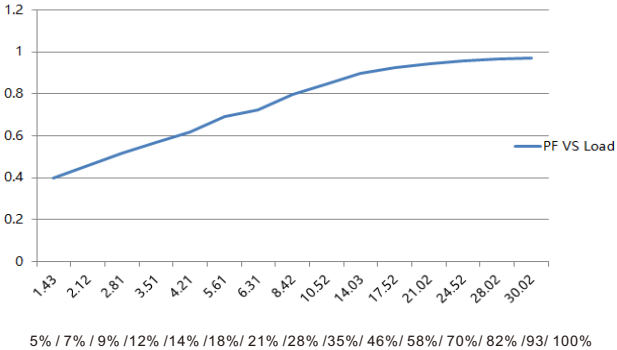
Dimming Curve



Note: Test data under 700mA gear

Driver Performance

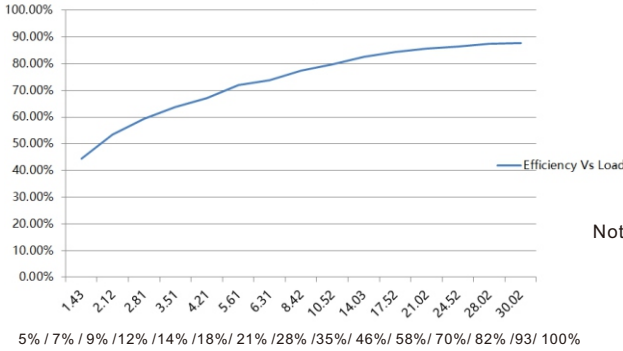
PF VS Load



Note: Test data under 700mA gear

Driver Performance

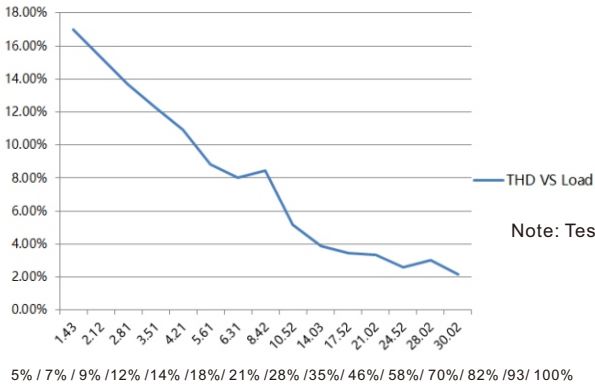
Efficiency Vs Load



Note: Test data under 700mA gear

Driver Performance

THD VS Load



Note: Test data under 700mA gear

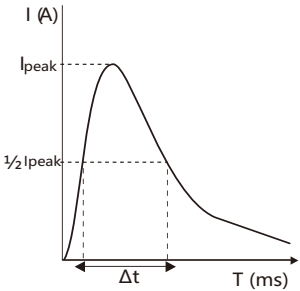
Expected Lifetime

Module Number	Output current	Ta	30 °C	40 °C	45 °C	•••	60 °C
SRPL-2305N-30CC250-850	250 – 850 mA	Tc	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		> 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 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	
SRPL-2305N-30CC250-850	6.04A	72μs	30	39	48	60	75	35	45	56	70	87	40	52	64	80	100	
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

Update log

Date	Version	Update content	Update by
2023-9-1	V1.5	Parameter Update	Romeo

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