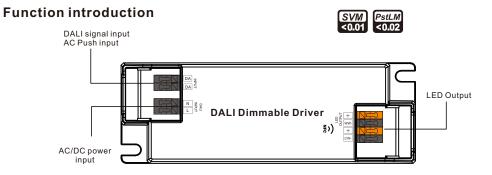
45W DALI DT8 NFC Enabled LED Driver(Constant Current)



Important: Read All Instructions Prior to Installation



Product Data

	LED Channel	2					
	DC Voltage	6-54V, Max. 60V					
	Current	500-1400mA via NFC setting; Min.current gear lower to 0.1mA					
Output	Current Accuracy	±3%(±1%@Certain full load) @ full load					
	Rated Power	Max. 45W					
	Voltage Range	220-240VAC/220-240VDC					
	Absolute Voltage Range	196-264VAC/196-264VDC					
	Frequency Range	0/50/60Hz					
	Power Factor (Typ.)	> 0.95 @ 230VAC Full load*					
	Total Harmonic Distortion	THD ≤ 12% (@ full load / 230VAC)*					
Input	Efficiency (Typ.)	> 85% @ 230VAC full load*					
	AC Current (Typ.)	0.3A Max.					
	Inrush Current (Typ.)	Max. 8.56A at 230VAC; 88µs duration					
	Leakage Current	< 5mA /230VAC					
	Standby Power Consumption	< 0.5W					
	Anti Surge	L-N:2KV					
	Dimming Interface	DALI Device Type 8 (DALI consumption < 2mA)/ AC Push					
Control	Dimming Range	0.01%-100%@ Max current					
Control	Dimming Method	Amplitude/CCR dimming					
	Dimming Curve	Linear/ Logarithmic optional					

	Short Circuit	Yes, remove the fault conditions and re-power the device.						
Protection	Over Current	Yes, remove the fault conditions and re-power the device.						
	Over Temperature	Yes, remove the fault conditions and re-power the device.						
	Working Temp.	-25℃ ~ +45℃						
	Max. Case Temp.	Tc=85℃						
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, GB/T 19510.1-2023, GB/T 19510.213-2023						
	Withstand Voltage	I/P-O/P: 3.75KVAC						
Safety & EMC	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						
Others	Dimension	145x45x28mm (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, IEC 62386-209:2011
- Built-in DALI-2 interface, DALI DT8 device
- Dimmable LED driver. Max. output power 45W
- 500-1400mA 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, full isolated plastic case
- · High power factor and efficiency
- ON/OFF, Dimming and Tunable White control
- Amplitude/CCR dimming, smooth and deep dimming
- Compatible with universal DALI masters that support DT8 commands
- Error report function
- 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 2 channels 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 .
- 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 .



- 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.





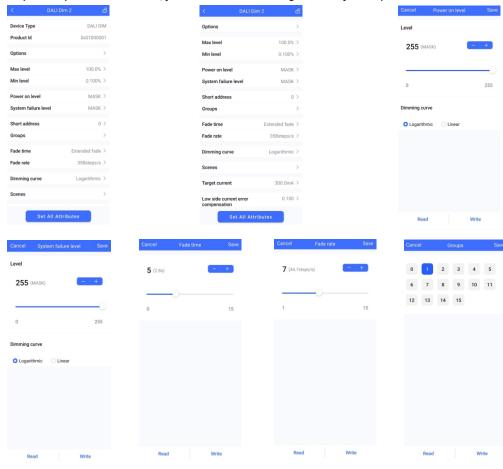


Step 3: Unlock device, enter parameters configuring page.

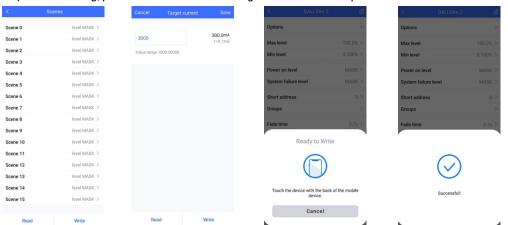


- Note: 1. You have to unlock the device then do some settings
 - 2. Only when the corresponding function is selected, the function interface will be displayed.

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



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

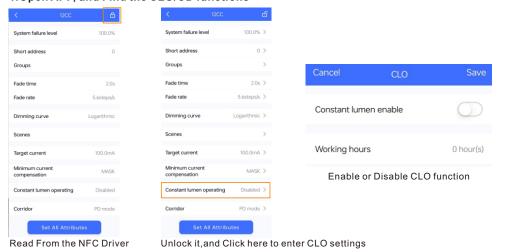


Tips

- 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/ DALI IoT gateway.
- 4.This is a 2-channel output product, so we recommend ensuring that both loads are connected and have the same loads for each channel at the same time during testing.
- 4.1If you have to connect 1 channel to test, please follow the following moves (before powering on).
- 4.1.1If you are connected to "+/WW" (signal channel), please make sure to set <u>"power on CCT"</u> of NFC Driver to 2700k (DALI default value), and write to the device.
- 4.1.2If you are connected to "+/CW" (signal channel), please make sure to set <u>"power on CCT"</u> of NFC Driver to 6500k (DALI default value), and write to the device.

CLO AND CORRIDOR DIM(CD) FUNCTION INSTRUCTION

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



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.

Additional Remarks



- 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 functions.

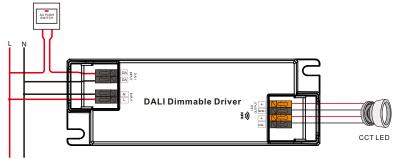
Wiring Diagram

1. With DALI bus



Note: Avaliable with 3-wire CCT luminaries as well

2. With PUSH dimmer

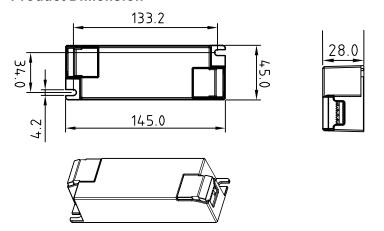


Note: Avaliable with 3-wire CCT luminaries as well

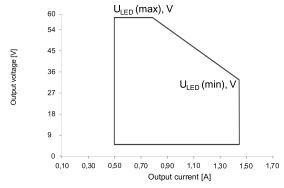
AC Push Function

- 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%.
- 3) Double click the button to switch between brightness mode and color temperature mode.
- 4) Press and hold down the button to change color temperature under color temperature mode.

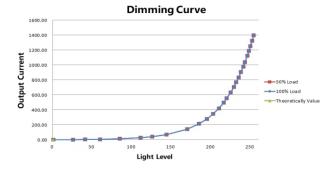
Product Dimension



Operating window



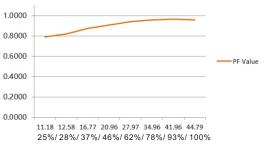
Dimming Curve



Note: Test data under 1400mA gear

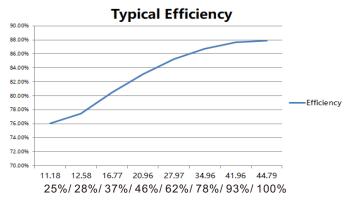
Driver Performance

Typical Power Factor



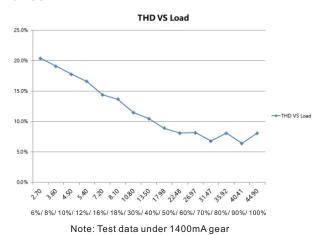
Note: Test data under 1400mA gear

Driver Performance



Note: Test data under 1400mA gear

Driver Performance



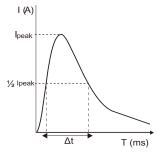
Expected Lifetime

Module Number	Output current	Та	30 °C	40 °C	45 °C	•••	
SRP-2305N-45CC500-1400	500 – 1400 mA	Тс	50 ℃	60 °C	68 °C	•••	85 ℃
SRP-2309N-45CCT500-1400	500 – 1400 mA	Lifetime	> 100,000 h	> 100,000 h	> 100,000	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	lpeak	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-45CC500-1400	8.56A	88µs	17	22	28	35	43	28	36	44	56	70	32	41	51	64	80
SRP-2309N-45CCT500-1400	8.56A	88µs	17	22	28	35	43	28	36	44	56	70	32	41	51	64	80



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
2023-6-17	V1.4	Update CLO function	Romeo

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

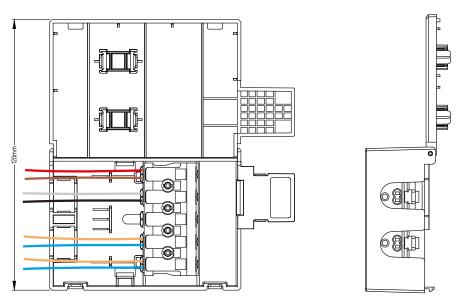
Quick Connector Box (Optional for Order)

SRP-Loopbox-01

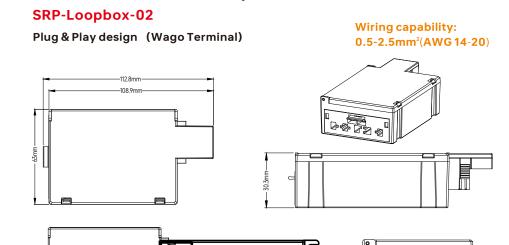
Loop in & Loop Out design 1x DALILoop in 1x ACLoop in 1x ACLoop out 1x

Wiring capability:

Note: Because the height of the 45W enclosure is slightly lower than that of the Loop box (Due to its own compact design), it may be necessary to add a gasket on the plane (to maintain balance), not necessarily depending on site conditions.

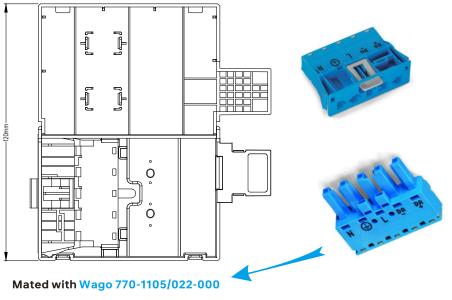


Quick Connector Box (Optional for Order)



Note: Because the height of the 45W enclosure is slightly lower than that of the Loop box (Due to its own compact design), it may be necessary to add a gasket on the plane (to maintain balance), not necessarily depending on site conditions.

Combined(Side View)



http://www.wago.com/770-1105/022-000

Combined(Top View)