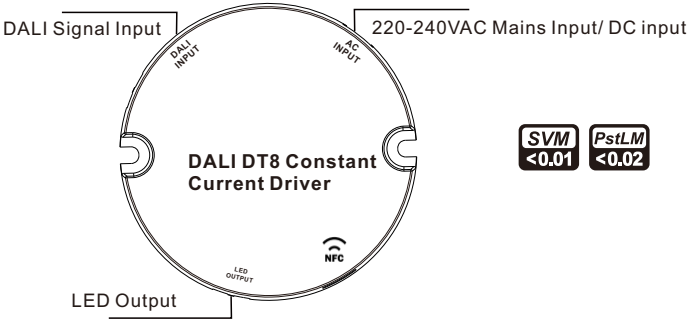


36W DALI DT8 NFC Enabled Round LED Driver(Constant Current)



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

Output	LED Channel	2
	DC Voltage	10-42V, Max.48V
	Current	600-1200mA via NFC tool; Min.current gear lower to 0.1mA, default 1000mA
	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated Power	Max. 36W
Input	Voltage Range	220-240VAC/220-240VDC
	Absolute Voltage Range	198-264VAC/198-264VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.95 @ 230VAC Full load*
	Total Harmonic Distortion	THD ≤ 13% (@ full load / 230VAC)*
	Efficiency (Typ.)	> 82% @ 230VAC full load*
	AC Current (Typ.)	0.2A Max.
	Inrush Current (Typ.)	Max. 7.56A at 230VAC; 32µs duration
	Leakage Current	< 5mA /230VAC
	Standby Power Consumption	< 0.5W
Control	Anti Surge	L-N:2KV
	Dimming Interface	DALI Device Type 8 (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	φ72x30mm (D*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
 - Built-in DALI-2 interface, DALI DT8 device
 - Dimmable LED driver. Max. output power 36W
 - 600-1200mA 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
 - CLO function for a further upgraded experience
 - 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.

The figure displays five screenshots of the DALI Dimmer app interface, organized into two rows. The top row includes the main settings screen, the 'Options' screen, and the 'Level' screen. The bottom row includes the 'System failure level' screen, the 'Fade time' screen, and the 'Fade rate' screen. Each screen shows various parameters and controls for the DALI dimmer.

Top Row Screenshots:

- Main Settings Screen:** Shows 'DALI Dim 2' at the top. Below are sections for 'Device Type' (DALI DIM), 'Product Id' (0x01000001), 'Options' (with a right arrow), 'Max level' (100.0%), 'Min level' (0.100%), 'Power on level' (MASK), 'System failure level' (MASK), 'Short address' (0), 'Groups' (with a right arrow), 'Fade time' (Extended fade), 'Fade rate' (358steps/s), 'Dimming curve' (Logarithmic), and 'Scenes' (with a right arrow). A 'Set All Attributes' button is at the bottom.
- Options Screen:** Shows 'Options' at the top with a right arrow. Below are 'Max level' (100.0%), 'Min level' (0.100%), 'Power on level' (MASK), 'System failure level' (MASK), 'Short address' (0), 'Groups' (with a right arrow), 'Fade time' (Extended fade), 'Fade rate' (358steps/s), 'Dimming curve' (Logarithmic), 'Scenes' (with a right arrow), 'Target current' (300.0mA), and 'Low side current error compensation' (0.100%). A 'Set All Attributes' button is at the bottom.
- Level Screen:** Shows 'Level' at the top. Below is a slider for '255 (MASK)' with minus and plus buttons. The slider range is from 0 to 255. Below the slider is a 'Dimming curve' section with 'Logarithmic' selected and 'Linear' as an option. At the bottom are 'Read' and 'Write' buttons.

Bottom Row Screenshots:

- System failure level Screen:** Shows 'Cancel', 'System failure level', and 'Save' buttons at the top. Below is a slider for '255 (MASK)' with minus and plus buttons. The slider range is from 0 to 255. Below the slider is a 'Dimming curve' section with 'Logarithmic' selected and 'Linear' as an option. At the bottom are 'Read' and 'Write' buttons.
- Fade time Screen:** Shows 'Cancel', 'Fade time', and 'Save' buttons at the top. Below is a slider for '5 (2.8s)' with minus and plus buttons. The slider range is from 0 to 15. Below the slider is a large empty box. At the bottom are 'Read' and 'Write' buttons.
- Fade rate Screen:** Shows 'Cancel', 'Fade rate', and 'Save' buttons at the top. Below is a slider for '7 (44.7steps/s)' with minus and plus buttons. The slider range is from 1 to 15. Below the slider is a large empty box. At the bottom are 'Read' and 'Write' buttons.

Bottom Right Screenshot:

- Groups Screen:** Shows 'Cancel', 'Groups', and 'Save' buttons at the top. Below is a grid of buttons numbered 0 to 15. Button 1 is highlighted. Below the grid is a large empty box. At the bottom are 'Read' and 'Write' buttons.

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



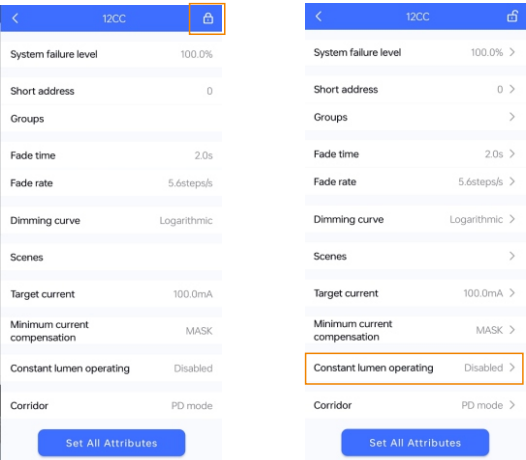
Tips

- 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.

Note: Within Our NFC tech design, you shall probably have one of the largest NFC sensing area. The More sensitive you’re able to touch, the more convenient you can have.

CLO FUNCTION INSTRUCTION

1.Open APP, and Find the CLO function



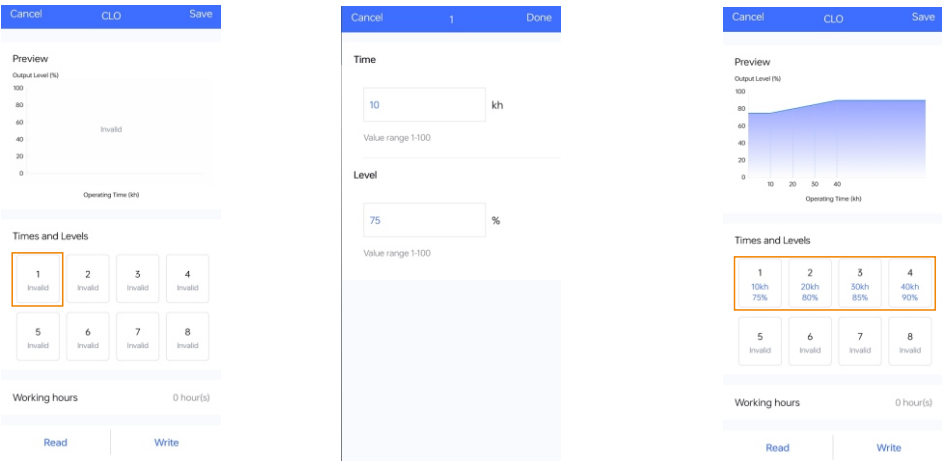
Read From the NFC Driver

Unlock it,and Click here to enter CLO settings



Enable or Disable CLO function

2.Enter CLO Setting homepage



Enable CLO function

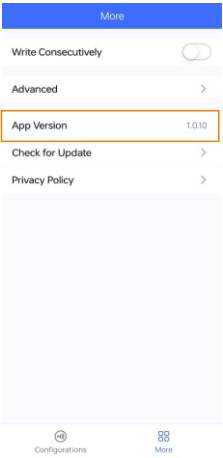
Click “1”,and set its time and level

Set your desired time and levels.
Graphic display

Tips:

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

Additional Remarks



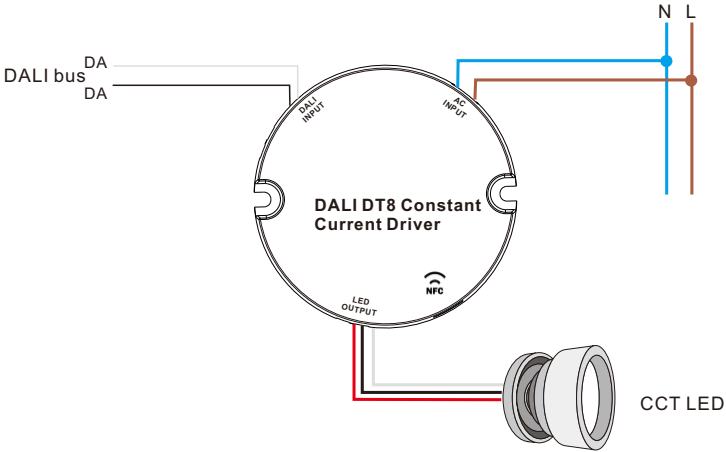
- 1. Please make sure your APP version is 1.0.10 or higher.
- 2. Please make sure NFC driver’s firmware is available with CLO function.

Wiring Diagram

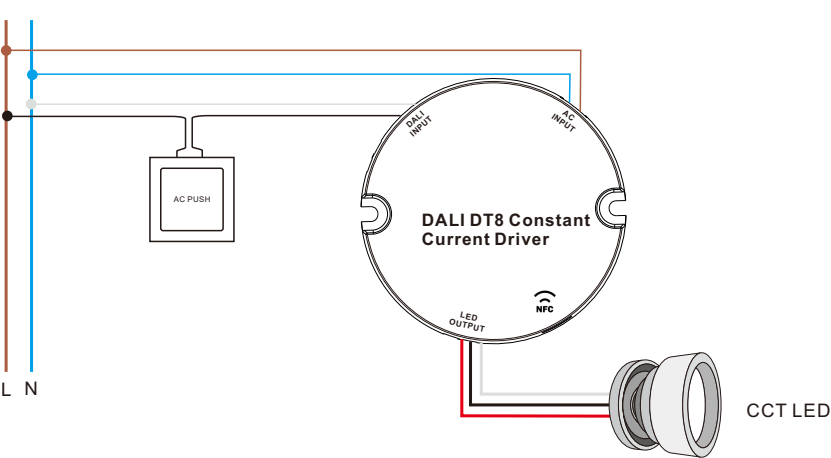
Notes:

Function	Color	Wire Gauge	Wire Length	Strip Length
ACL/DC+	Brown	28 AWG	170 mm	3 mm
ACN/DC-	Blue	28 AWG	170 mm	3 mm
LED+	Red	20 AWG	130 mm	7 mm
WW-	Black	20 AWG	130 mm	7 mm
CW-	White	20 AWG	130 mm	7 mm
DA	Black	20 AWG	130 mm	7 mm
DA	White	20 AWG	130 mm	7 mm

1. With DALI bus



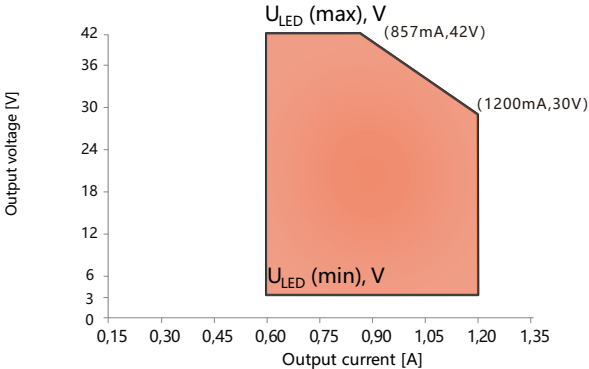
2. With PUSH dimmer



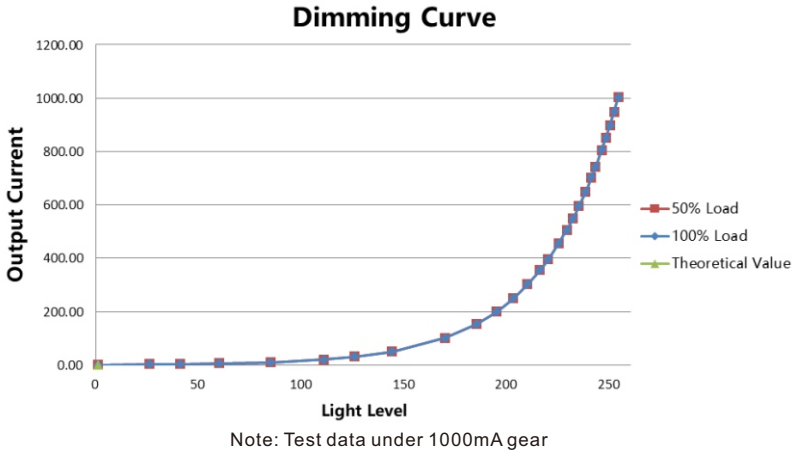
AC Push Function

- 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%.

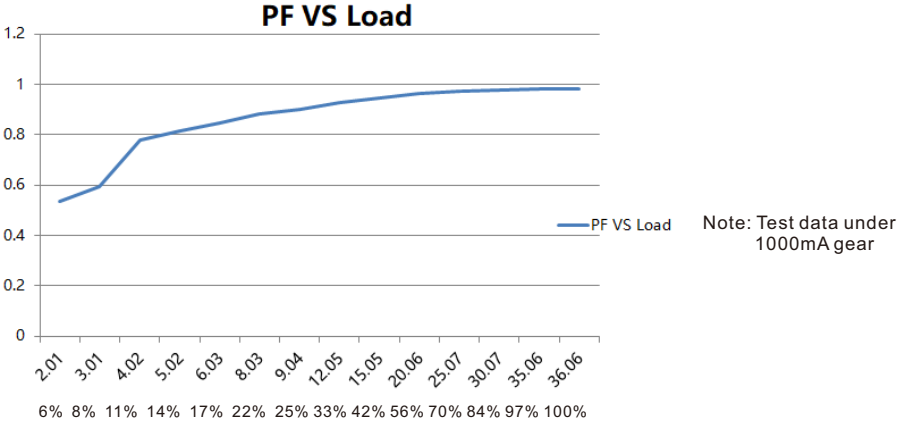
Operating window



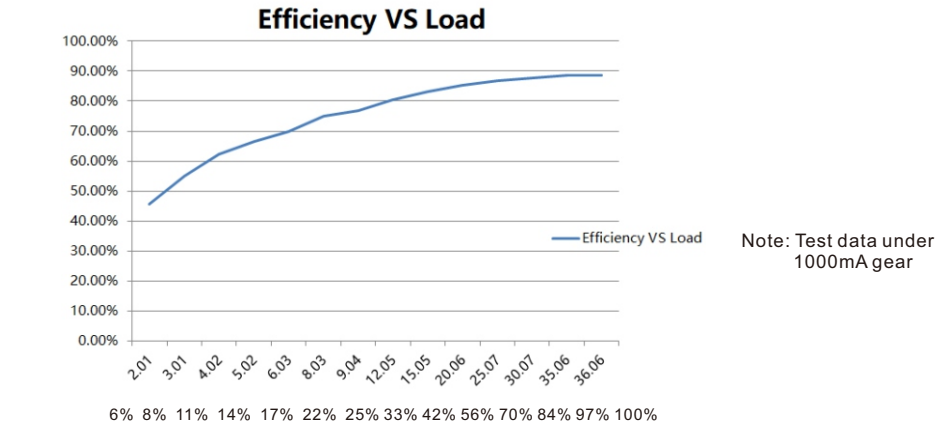
Dimming Curve



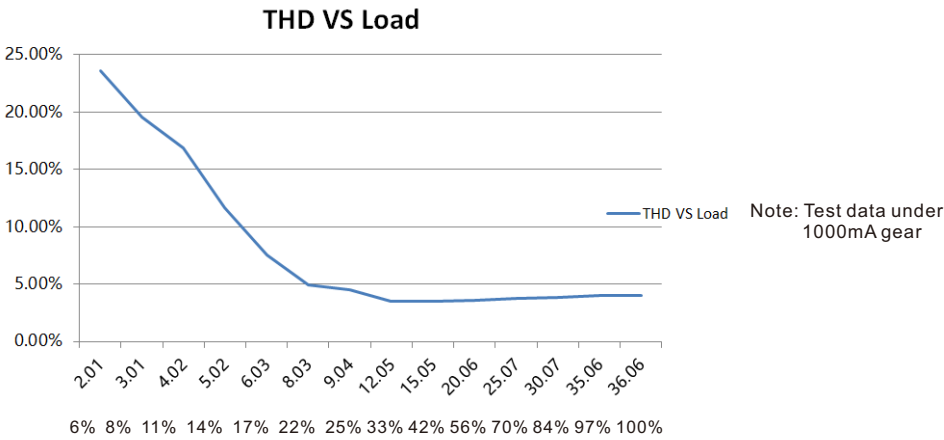
Driver Performance



Driver Performance



Driver Performance



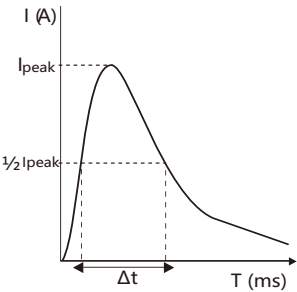
Expected Lifetime

Module Number	Output current	Ta	30 °C	40 °C	45 °C	...	60 °C
SRPY-2305N-36CC60-1200	600 – 1200 mA	Tc	53 °C	65 °C	72 °C	...	90 °C
SRPY-2309N-36CCT600-1200	600 – 1200 mA	Lifetime	> 100,000 h	> 80,000 h	> 60,000 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.

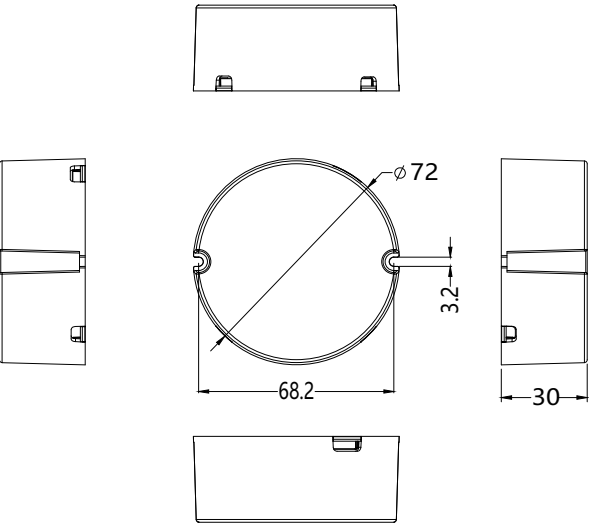
MCB Load Quantity

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
SRPY-2305N-36CC600-1200	7.56A	32μs	30	39	48	60	75	35	46	56	70	88	40	52	64	80	100
SRPY-2309N-36CCT600-1200	7.56A	32μs	30	39	48	60	75	35	46	56	70	88	40	52	64	80	100


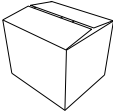


- Note:
- 1.Those MCB parameters are based on ABB S200 series circuit breakers.
 - 2.For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
 - 3.Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity 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

Product Dimension



Packaging

1 PCS/Box	51 PCS/Carton
86x86x45mm	380x270x280mm
	

Update log

Date	Version	Update content	Update by
2023-12-16	V1.2	Update PF/THD/Eff/MCB Load/ Lifetime....	Romeo

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