

15W 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	6-42V
	Current	100-700mA via NFC tool; Min.current gear lower to 0.1mA, default 350mA
	Current Accuracy	±3%( ±1%@Certain full load) @ full load
	Rated Power	Max. 15W
Input	Voltage Range	200-240VAC/200-240VDC
	Absolute Voltage Range	176-264VAC/176-280VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.97 @ 230VAC Full load
	Total Harmonic Distortion	THD ≤ 10% (@ full load / 230VAC)
	Efficiency (Typ.)	> 81% @ 230VAC full load
	AC Current (Typ.)	0.1A @ 230VAC
	Inrush Current (Typ.)	Max. 3.96A at 230VAC; 80µs 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, 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°C ~ +45°C
	Max. Case Temp.	Tc=85°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
	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
	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	135x35x20mm (L*W*H)
	Warranty	5 Years

- 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 15W
- 100-700mA 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
- To switch and dim LED lighting luminaries
- Amplitude/CCR dimming, smooth and deep dimming
- Compatible with universal DALI masters that support DT6 commands
- 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 are assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

Figure 1 displays four screenshots of the iChips configuration tool interface, showing the settings for the System failure level, Fade time, Fade rate, and Groups.

- System failure level:** The "Level" is set to 255 (MASK). The "Dimming curve" is set to "Logarithmic".
- Fade time:** The "Fade time" is set to 5 (2.8s).
- Fade rate:** The "Fade rate" is set to 7 (44.7steps/s).
- Groups:** The "Groups" are set to 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.

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

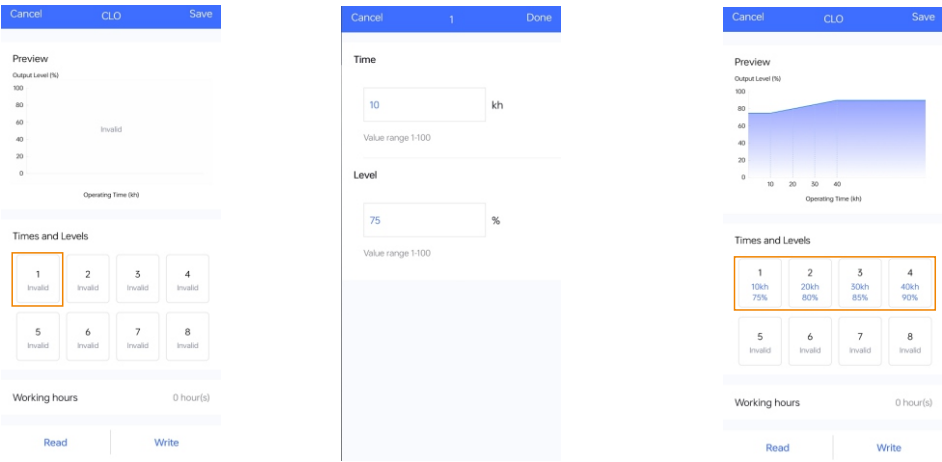
1.Open APP, and Find the CLO/CD functions



Read From the NFC Driver

Unlock it,and Click here to enter CLO settings

2.Enter CLO Setting homepage



Enable CLO function

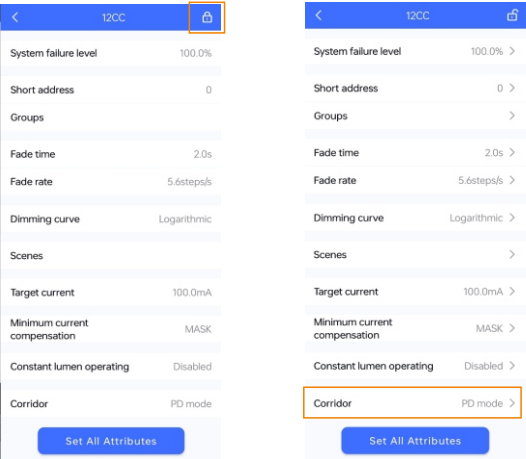
Click "1",and set its time and level

Set your desired time and levels.  
Graphic display

Tips:

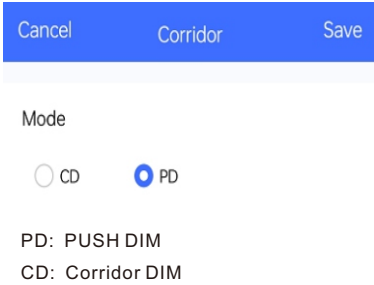
Working hours : Ability to calculate the working hours of a single driver.

3.Corridor dim(CD) function



Read From the NFC Driver

Unlock it,and Click here to enter Corridor mode



4.Enter CD Setting homepage

CancelCorridorSave

Mode

CD

PD

Preview

Level (%)

100806040200

Fade inOccupiedFade outProlongedDim to off

Fade in time

5

s

Value range 0-100

Occupied times

Value range 0-60,000

ReadWrite

CancelCorridorSave

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 times

Value range 0-60,000

ReadWrite

CancelCorridorSave

Prolonged time

60

s

Value range 0-60,000

Infinite

Prolonged level

20

%

Value range 0-100

Dim to off time

5

s

Value range 0-100

ReadWrite

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

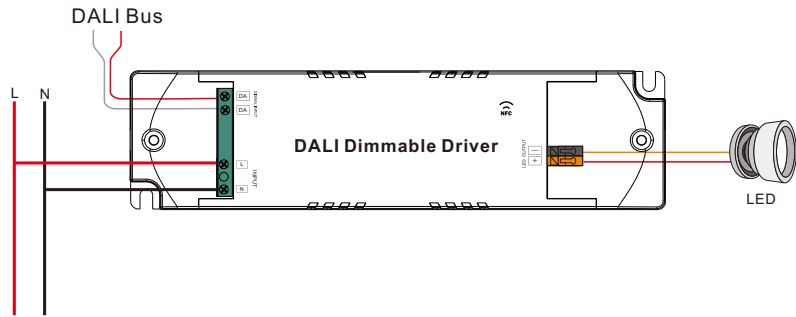
Privacy Policy

ConfigurationsMore

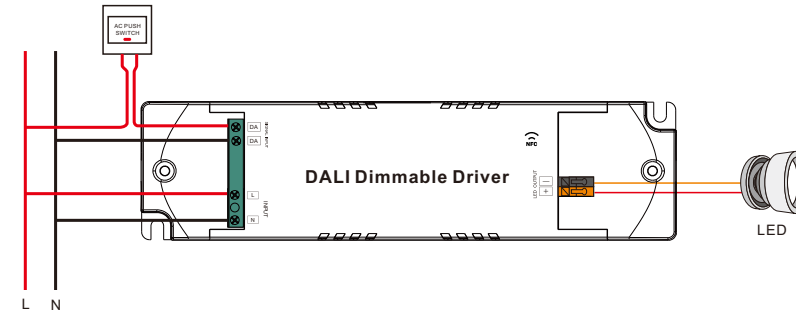
- 1. Please make sure your APP version is 1.0.10 or higher.
- 2. Please make sure NFC driver's firmware is available with CLO / CD functions.

Wiring Diagram

- 1. With DALI bus
  - 1) With single color LED luminarie



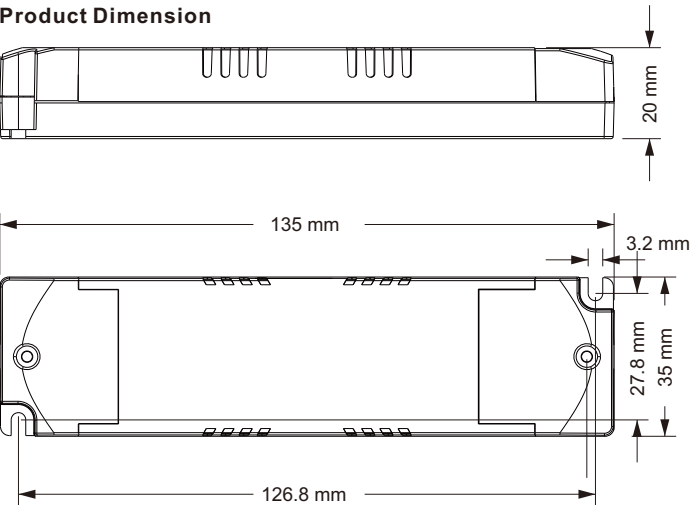
- 2. With PUSH dimmer



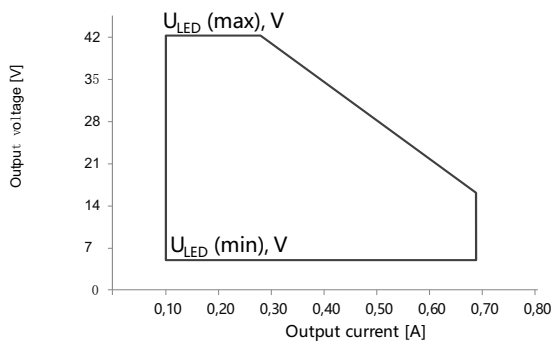
AC Push Function

- 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%.

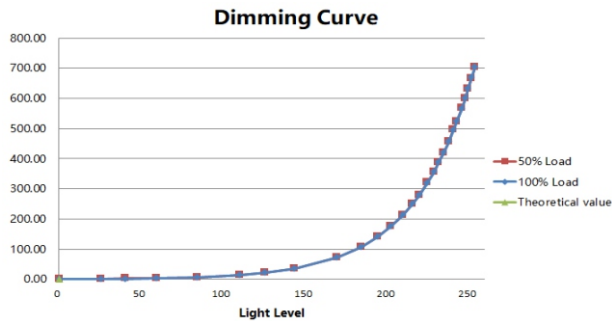
Product Dimension



Operating window

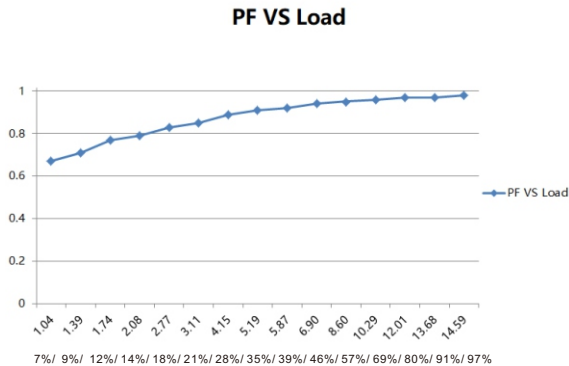


Dimming Curve



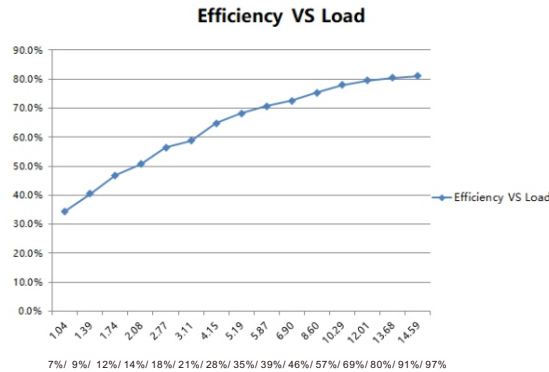
Note: Test data under 700mA gear

Driver Performance



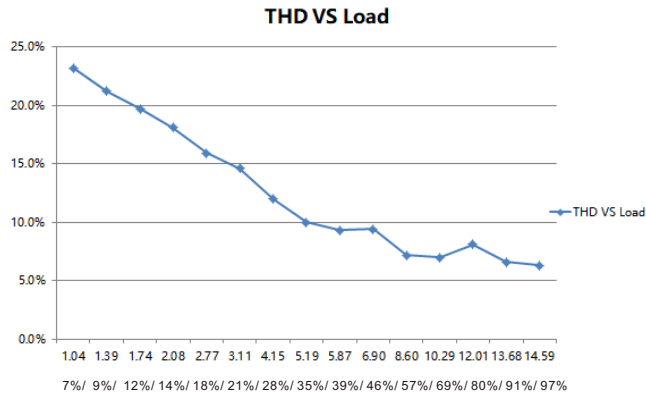
Note: Test data under 700mA gear

Driver Performance



Note: Test data under 700mA gear

Driver Performance



Note: Test data under 700mA gear

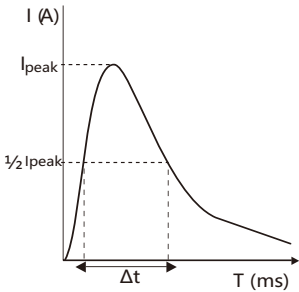
Expected Lifetime

Module Number	Output current	Ta	30 °C	40 °C	45 °C	...
SRP-2305N-15CC100-700	100 – 700 mA	Tc	50 °C	60 °C	70 °C	... 85 °C
SRP-2309N-15CCT100-700	100 – 700 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	I <sub>peak</sub>	T <sub>width</sub>	Max.quantity of LED Driver per MCB														
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-2305N-15CC100-700	3.96A	90μs	37	49	60	75	94	63	81	100	125	156	80	104	128	160	200
SRP-2309N-15CCT100-700	3.96A	90μs	37	49	60	75	94	63	81	100	125	156	80	104	128	160	200



- 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	V1.6	Update CLO/CD function	Romeo

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