80W DALI DT6 NFC Enabled LED Driver(Constant Current)



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

	LED Channel	1
	DC Voltage	10-54V
	Current	1000-2000mA via NFC setting; Min.current gear lower to 0.1mA,Default 1800mA
Output	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated Power	Max. 80W
	Voltage Range	220-240VAC/176-280VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.97 @ 230VAC Full load
	Total Harmonic Distortion	THD ≤ 6% (@ full load / 230VAC)
	Efficiency (Typ.)	> 88% @ 230VAC full load
Input	AC Current (Typ.)	0.45A @ 230VAC
	Inrush Current (Typ.)	Max. 34.4A at 230VAC; 160µs duration
	Leakage Current	< 5mA /230VAC
	Standby Power Consumption	< 0.5W
	Anti Surge	L-N:2KV
	Dimming Interface	DALI Device Type 6 (DALI consumption < 2mA)/ AC Push
Combrol	Dimming Range	0.01%-100%@ Max current
Control	Dimming Method	Amplitude/CCR dimming
	Dimming Curve	Linear/ Logarithmic optional

	Short Circuit	Yes, recovers automatically after fault condition is removed
Protection	Over Current	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after temperature drop
	Working Temp.	-25℃ ~ +60℃
Facility and the	Max. Case Temp.	TC=90°C
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
	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
	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	355x30x21mm (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 with linear metal housing. Max. output power 80W
- 1000-2000mA current selectable via NFC program tool. Min.current gear lower to 0.1mA
- DALI Address/Group/Scene setting via NFC program tool.
- 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.

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.





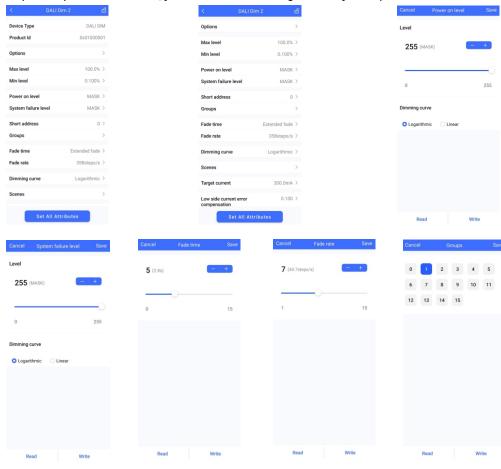


Step 3: Unlock device, enter parameters configuring page.

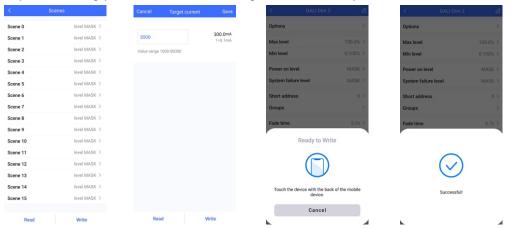


- Note: 1. You have to unlock the device then do some settings
 - 2. Only when the corresponding function is selected, the function interface will be displayed.

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.

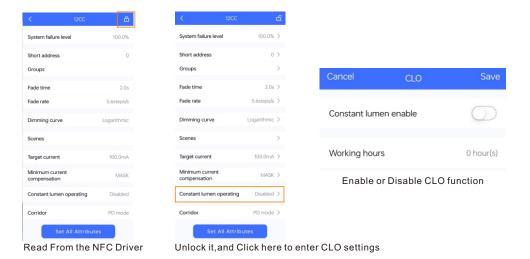


Tips

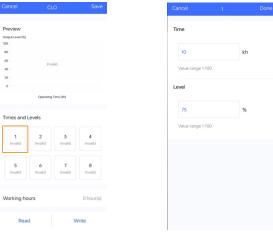
- 1. NFC function doesn't require any power driver.
- 2. Many functions can be configured by NFC. Kindly check your desired functions.
- 3. All of our DALI drivers are in the best performance within our DALI master/ gateway.

CLO AND CORRIDOR DIM(CD) FUNCTION INSTRUCTION

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



2.Enter CLO Setting homepage







Enable CLO function

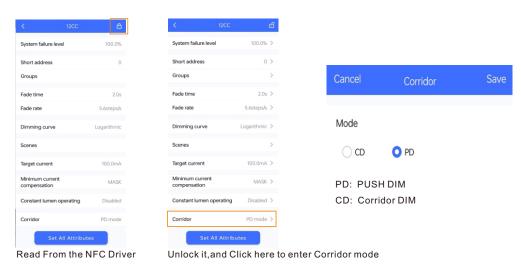
Click "1".and set its time and level

Set your desired time and levels. Graphic display

Tips:

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

3.Corridor dim(CD) function



4.Enter CD Setting homepage







Enter CD mode

Set your desired time and levels. Graphic display

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



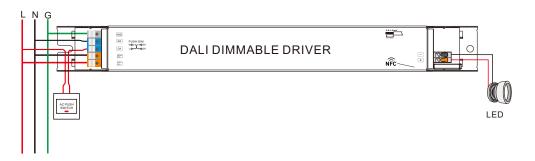
- 1. Please make sure your APP version is 1.0.10 or higher.
- 2. Please make sure NFC driver's firmware is available with CLO / CD functions.

Wiring Diagram

1. With DALI bus



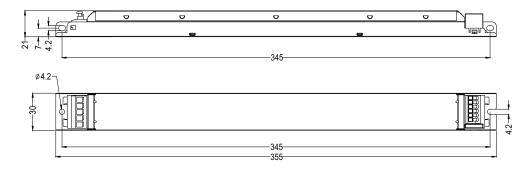
2. With PUSH dimmer



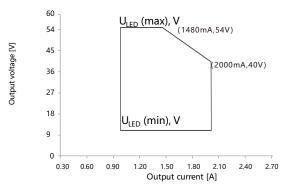
AC Push Function

- 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%.

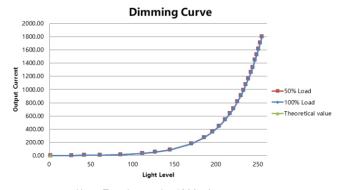
Product Dimension



Operating window

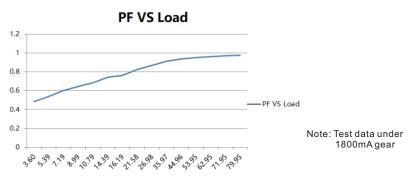


Dimming Curve



Note: Test data under 1800mA gear

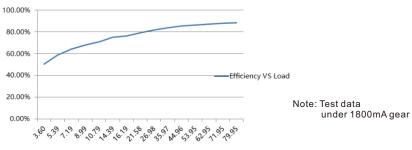
Driver Performance



4% / 7% / 9% / 11% / 13% / 18% / 20% / 27% / 34% / 45% / 56% / 67% / 79% / 90 / 100%

Driver Performance

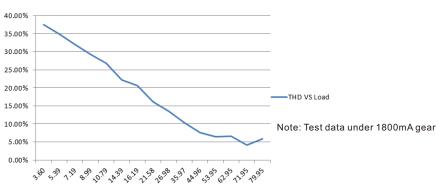




4% / 7% / 9% /11% /13% / 18% /20% /27% / 34% / 45% / 56% / 67% / 79% /90 / 100%

Driver Performance

THD VS Load



4% / 7% / 9% /11% /13% / 18% /20% /27% / 34% / 45% / 56% / 67% / 79% /90 / 100%

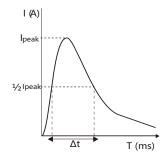
Expected Lifetime

Module Number	Output current	Та	30 °C	40 °C	45 °C	•••	60 °C
SRPL-2305N-80CC1000-2000	1000 – 2000 mA	Тс	60 °C	70 °C	76 °C	•••	90 °C(max)
SRPL-2309N-80CCT1000-2000	1000 – 2000 mA L	ifetime	> 100,000 h >	80,000 h	> 50,000 h	ı	> 20,000 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	Number Ipeak Twidtl			Max.quantity of LED Driver per MCB													
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRPL-2305N-80CC1000-2000	34.4A	160µs	12	15	19	24	30	16	20	25	31	39	18	23	28	36	44
SRPL-2309N-80CCT1000-2000	34.4A	160µs	12	15	19	24	30	16	20	25	31	39	18	23	28	36	44



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.
- 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 $30^{\circ}\mathcal{C}$ 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.