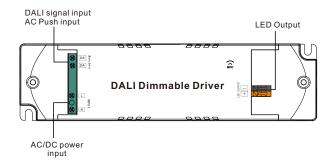
12W DALI DT6 NFC Enabled LED Driver(Constant Current)



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

	LED Channel	1						
	DC Voltage	6-42V						
	Current	100-700mA via NFC setting; Min.current gear lower to 0.1mA						
Output	Current Accuracy	±3%(±1%@Certain load)						
	Rated Power	Max. 12W						
	Voltage Range	200-240VAC/176-280VDC						
	Frequency Range	0/50/60Hz						
	Power Factor (Typ.)	> 0.96 @ 230VAC Full load						
	Total Harmonic Distortion	THD ≤ 10% (@ full load / 230VAC)						
	Efficiency (Typ.)	> 80% @ 230VAC full load						
Input	AC Current (Typ.)	0.1A @ 230VAC						
	Inrush Current (Typ.)	Max. 3.96A at 230VAC; 90µs 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						
Control	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℃ ~ +45℃						
	Max. Case Temp.	TC=85°C (Ta="45°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	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 12W
- 100-700mA 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
- 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.

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.







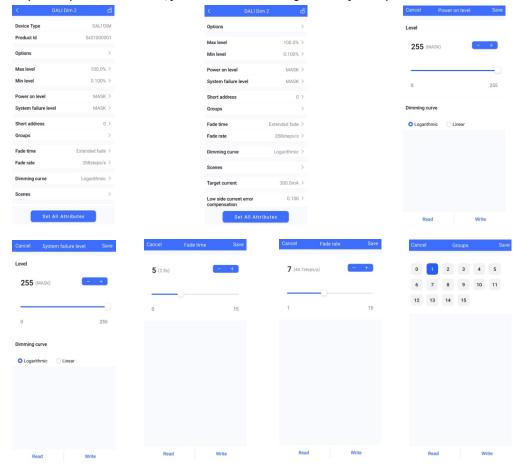
Cancel

Step 3: Unlock device, enter parameters configuring page.

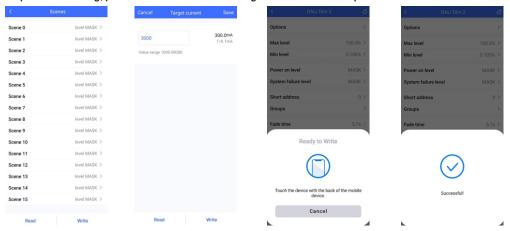


- Note: 1. You have to unlock the device then do some settings
 - 2. Only when the corresponding function is selected, the function interface will be displayed.

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

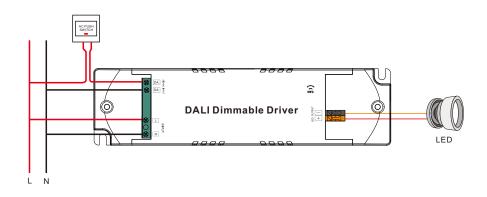
- 1. NFC function doesn't require any power driver.
- 2. Many functions can be configured by NFC. Kindly check your desired functions.
- 3. All of our DALI drivers are in the best performance within our DALI master/ gateway.

Wiring Diagram

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



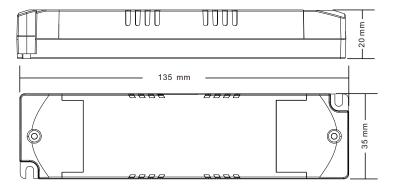
2. With PUSH dimmer



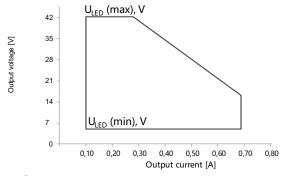
AC Push Function

- 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%.

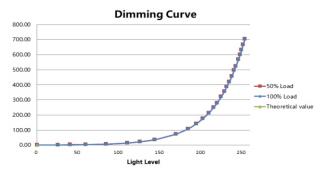
Product Dimension



Operating window

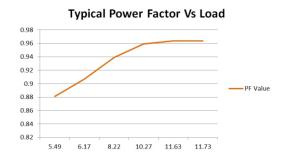


Dimming Curve



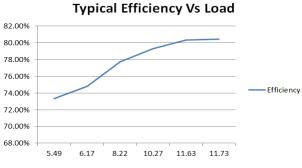
Note: Test data under 700mA gear

Driver Performance



Note: Test data under 700mA gear

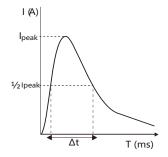
Driver Performance



Note: Test data under 700mA gear

MCB Load Quantity

Module Number	lpeak	Twidth					-	-				•	мсв				
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-2305N-12CC100-700	3.96A	90µs	37	49	60	75	94	63	81	100	125	156	80	104	128	160	200
SRP-2309N-12CCT100-700	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.
- 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°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	te Version Update content		Update by
2022-10-20	V1.3	Wiring Diagram Update	Romeo

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