

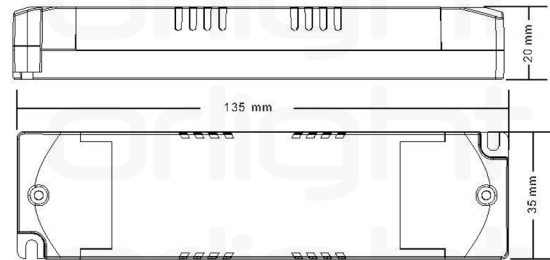
ORL-DALI_NFC-15CC-250MA

ITEM NO. DRIVER - 44657

15W DALI DT6 NFC Enabled LED Driver (Constant Current)



Dimension



Function introduction



Technical Specification

Output	LED Channel	1
	DC Voltage	6-42V
	Current	100-700mA via NFC setting; Min.current gear lower to 0.1mA
	Current Accuracy	±3% (±1% @ Certain full load) @ full load
	Rated Power	Max. 15W
	Output PstLM	<0.02
	Output SVM	<0.01
Input	Voltage Range	200-240VAC/176-280VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.97 @ 230VAC Full load
	Total Harmonic Distortion	THD ≤ 8% (@ full load / 230VAC)
	Efficiency (Typ.)	>80% @ 230VAC full load
	AC Current (Typ.)	0.1A @ 230VAC
	Inrush Current (Typ.)	Max. 3.96A at 230VAC; 90μs duration
	Leakage Current	< 5mA /230VAC

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Technical Specification Continued

Input	Standby Power Consumption	<0.5W
	Anti Surge	L-N:2KV
Control	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 (Ta="45°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)

- 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 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 Tunable White LED lighting fixtures
- Amplitude/CCR dimming, smooth and deep dimming
- Compatible with universal DALI masters that support DT8 commands
- Error report function
- IP20 rating, suitable for indoor LED lighting applications

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

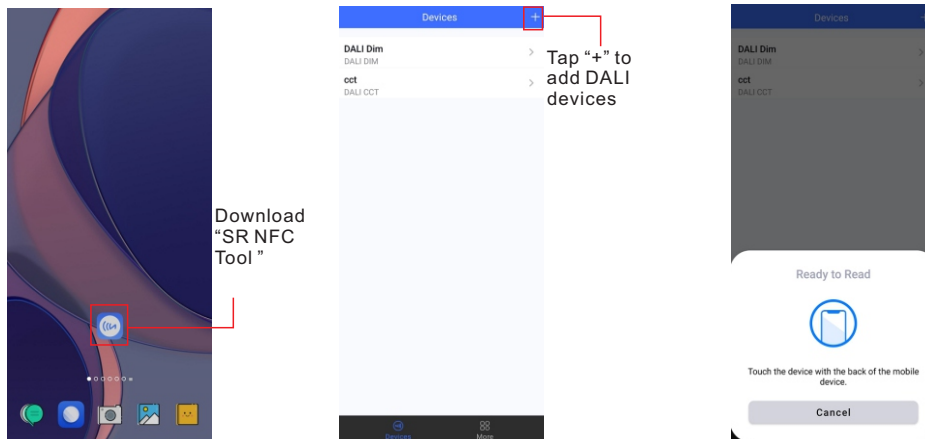
Note

1. Do wiring according to the wiring diagram and power on the DALI system.
2. Recommend setting parameters without power-on the DALI devices.
3. Please make sure your mobile phone has NFC function and enable it.

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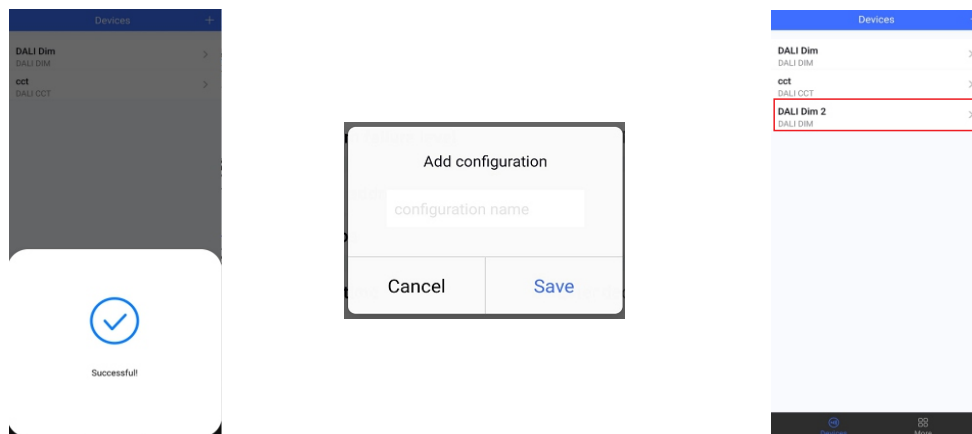
Working with "SR NFC Tool" APP

**Step 1: Download the APP (searching "SR NFC Tool" from App Store and Google Play) .
Then open the APP .**

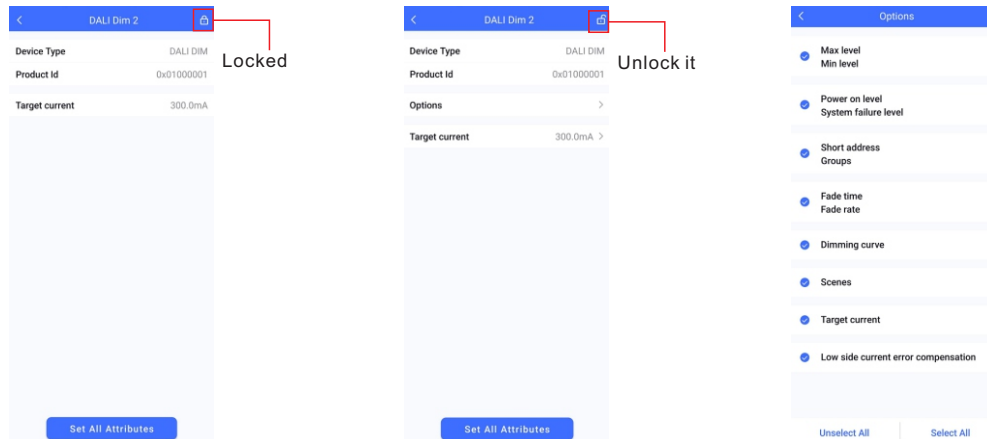


- Note:**
1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet .
 2. Please Make sure that the "NFC position" is matched.
 3. Please do not power on the device before setting.
 4. If you can't download "SR NFC Tool". Please contact with us.

Step 2: Add device, and name it as you wish.



Step 3: Unlock device, enter parameters configuring page.



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

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Working with "SR NFC Tool" APP

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

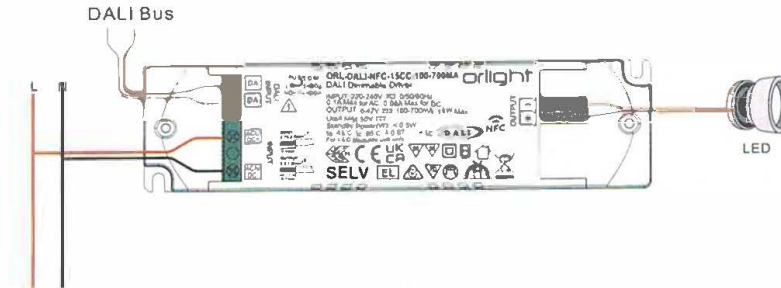
1. NFC function doesn't require any power driver.
2. Many functions can be configured by NFC. Kindly check your desired functions.
3. All of our DALI drivers are in the best performance within our DALI master/ DALI IoT gateway.

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Wiring Diagram

1. With DALI bus

With single color LED luminaire



2. With PUSH dimmer

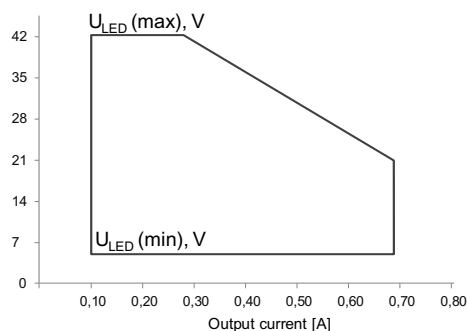


AC Push Function

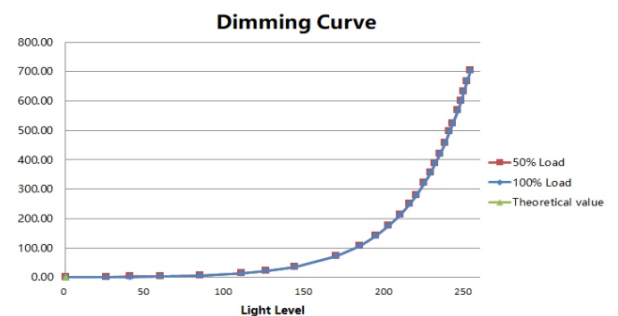
1. Click the button to switch ON/OFF
2. Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.

Performance

Operating Window



Dimming Curve



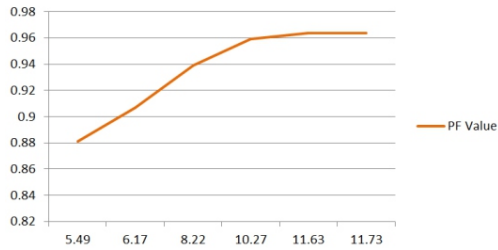
Note: Test data under 700mA gear

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Performance

Driver Performance

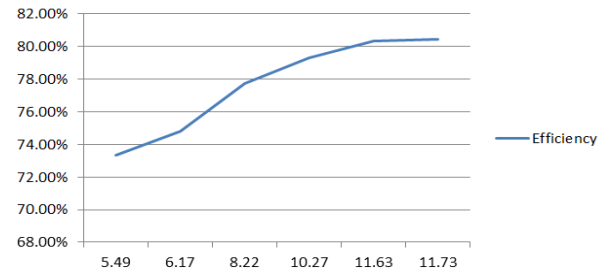
Typical Power Factor Vs Load



Note: Test data under 700mA gear

Driver Performance

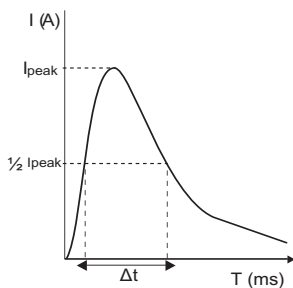
Typical Efficiency Vs Load



Note: Test data under 700mA gear

MCB Load Quantity

Module	I _{peak}	T _{width}	Max.quantity of LED Driver per MCB														
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
ORL-DALI_NFC-15CC-250MA	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