DALI LED Driver

- Standard DALI input interface, the wires of the DALI bus are non-polarized.

- PWM digital dimming, it doesn't change LED lights' color rendering index.

- Dimming range: 0~100%, dimming down to 0.1%.

- Single channel, constant voltage output with max. load current 15A.

- DALI bus standard: IEC62386-101, IEC62386-102, IEC62386-207 standard.

- Fully-protected plastic housing.

- Suitable for indoor LED lighting environments.

- Change the driver's DALI address, dimming curve, PWM frequency and other parameters via the NFC Lighting APP or on our NFC programmer.
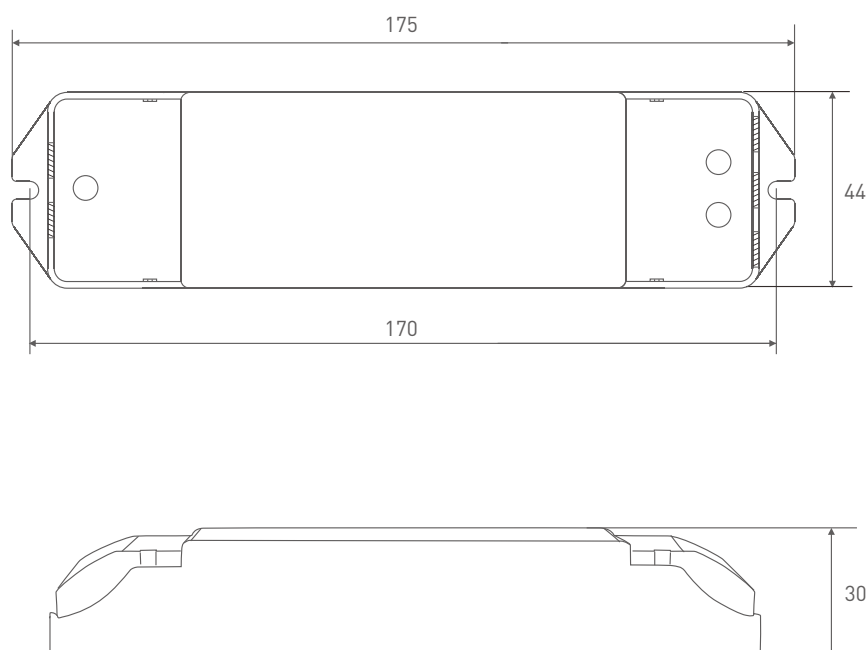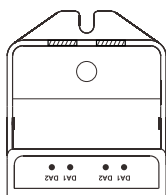
FC   CE   RoHS

Product Parameters

Model	LT-401-15A		Dimming Range	0~100%, down to 0.1%
Dimming Interface	DALI		Protection	Short circuit, over temperature and over current protection, self-recovery, against polarity reversal
Input Voltage	12-48V $=\!=\!=$			
Output Voltage	12-48V $=\!=\!=$			
Output Current	15A×1CH		Dimensions	L175×W44×H30(mm)
Output Power	0-180...720W(MAX.720W)		Package Size	L178×W48×H33(mm)

Product Size

Unit: mm

175

44

170

30

Terminal description

The wires of the DALI bus are non-polarized.
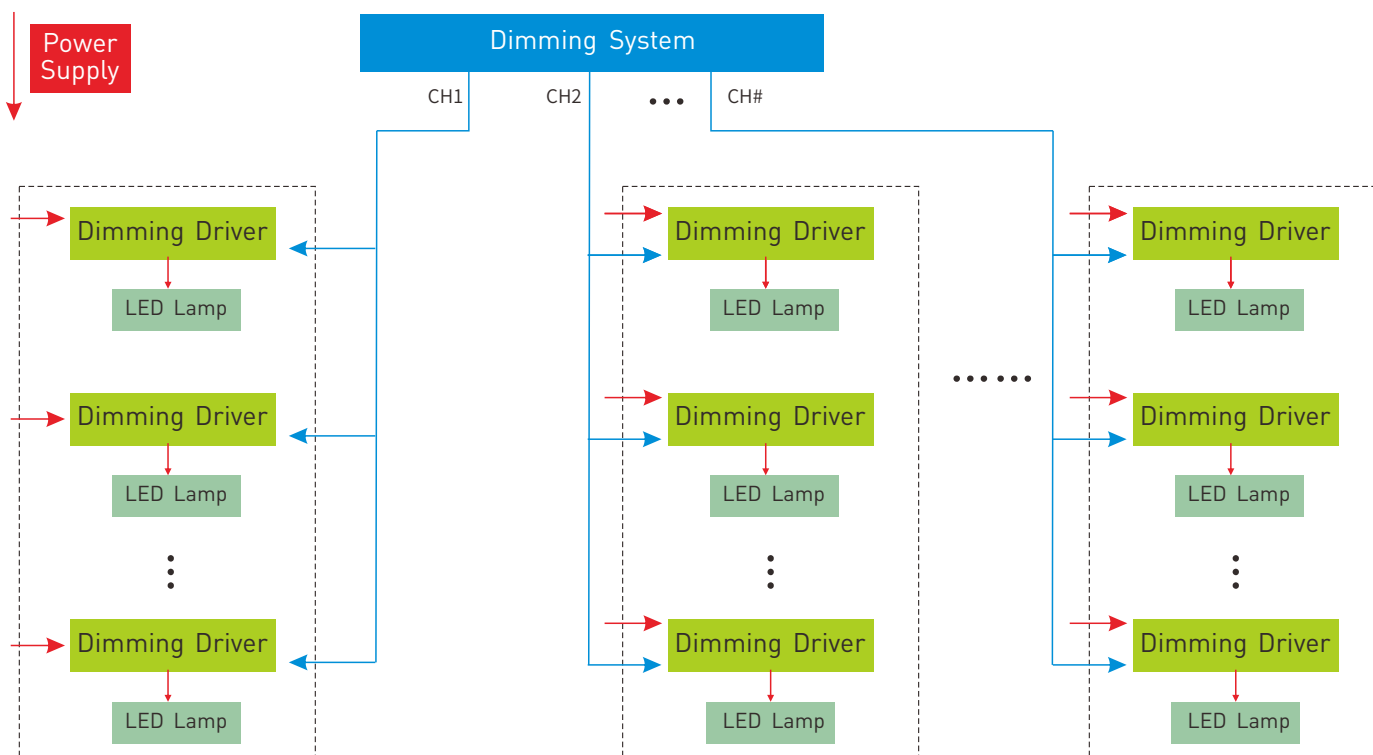
Two groups of DALI signal socket

LED lamps connection socket
12-48Vdc power input socket

Load Parameters

At different PWM frequencies and different voltages, the max. load current and the total power of each channel vary. Before you do the wiring, please strictly follow the load parameters in the table below to operate.

Current / Power Frequency Voltage	300Hz	600Hz	1.2kHz	1.5kHz	1.8kHz	2.4kHz
12V	15A/180W	15A/180W	15A/180W	15A/180W	15A/180W	15A/180W
24V	15A/360W	15A/360W	15A/360W	15A/360W	15A/360W	15A/360W
36V	15A/540W	15A/540W	10A/540W	15A/540W	15A/540W	15A/540W
48V	15A/720W	15A/720W	15A/720W	15A/720W	15A/720W	15A/720W

Current / Power Frequency Voltage	3.6kHz	7.2kHz	10.8kHz	14.4kHz	18kHz	21.6kHz
12V	15A/180W	10A/150W	10A/150W	8A/96W	7A/84W	6A/72W
24V	10A/240W	8A/192W	8A/192W	6A/144W	5A/120W	4A/96W
36V	10A/360W	8A/288W	6A/216W	4A/144W	3A/108W	3A/108W
48V	10A/480W	8A/384W	6A/288W	4A/192W	3A/144W	3A/144W

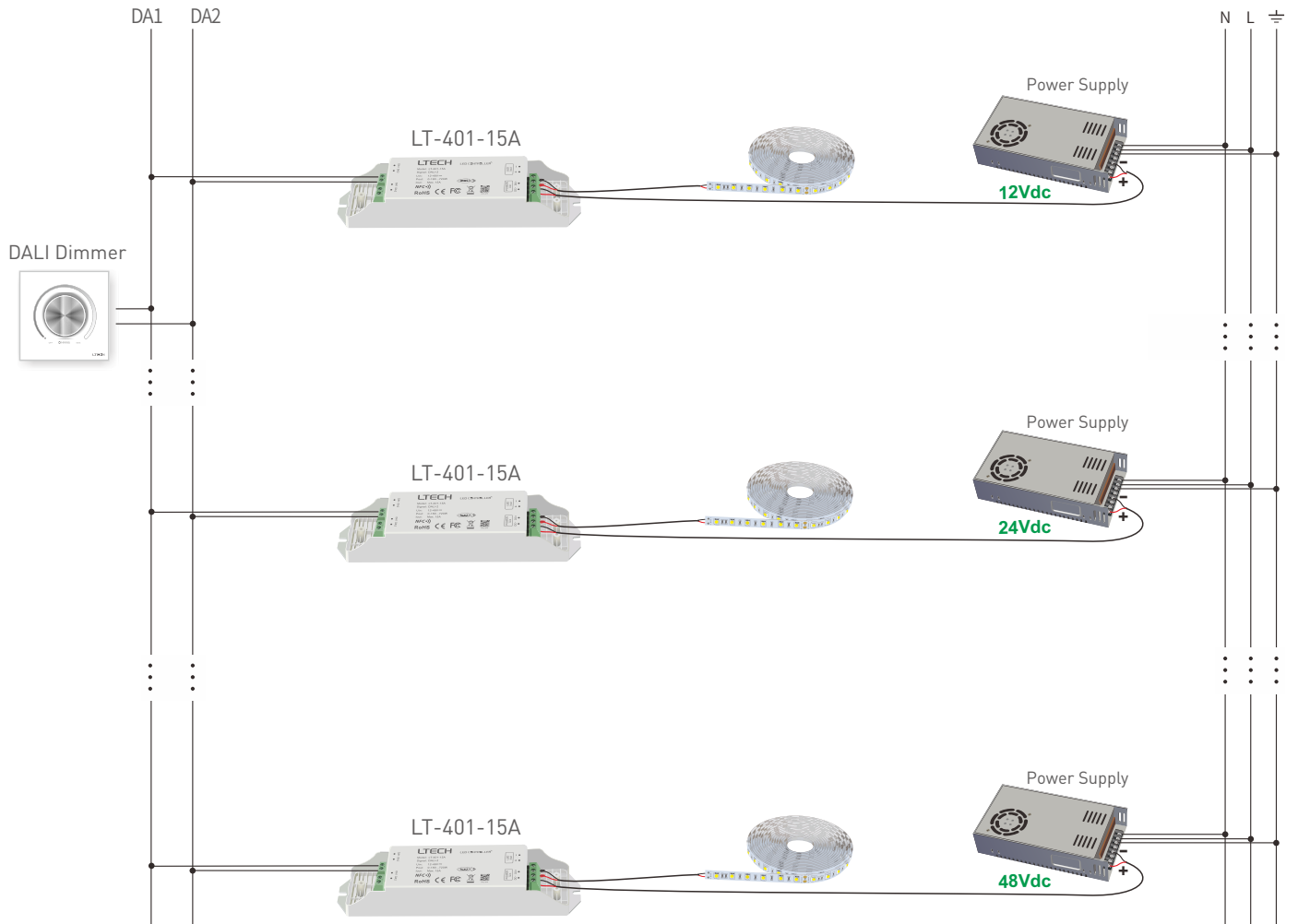## System Connection Diagram

LTECH

Wiring diagram

Connect to a 12V LED lamp with max.load 180W;
Connect to a 24V LED lamp with max.load 360W;
Connect to a 48V LED lamp with max.load 720W.

Use the NFC Lighting APP

Scan the QR code below with your mobile phone and follow the prompts to complete the APP installation (According to performance requirements, you need to use a NFC-capable Android phone, or an iphone 8 and later that are compatible with iOS 13 or higher).
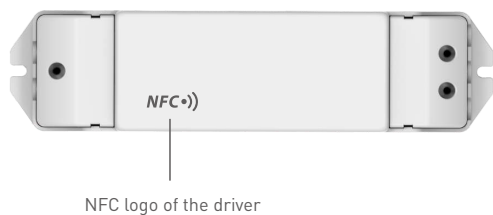
✳ **Before you begin setting the parameters of the driver, please make sure the driver is powered off.**

Read/Write the LED driver

Use your NFC-capable phone to read LED driver data, then edit the parameters and they can be directly written to the driver.

1. Read the LED driver

On the APP home page, click【Read/Write LED driver】, then keep the programmer's sensing area close to the NFC logo of the driver to read the driver parameters.
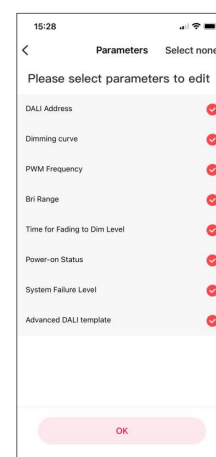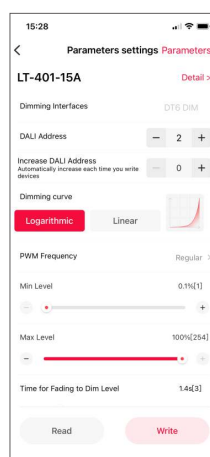
NFC logo of the driver

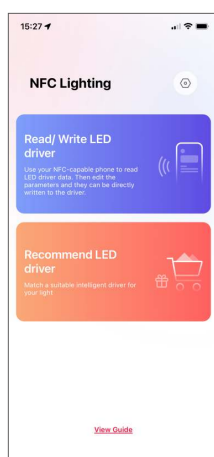**2. Edit the parameters**

Click 【Parameters】to edit more advanced parameters such as DALI address, dimming curve, PWM frequency, advanced DALI template, etc.
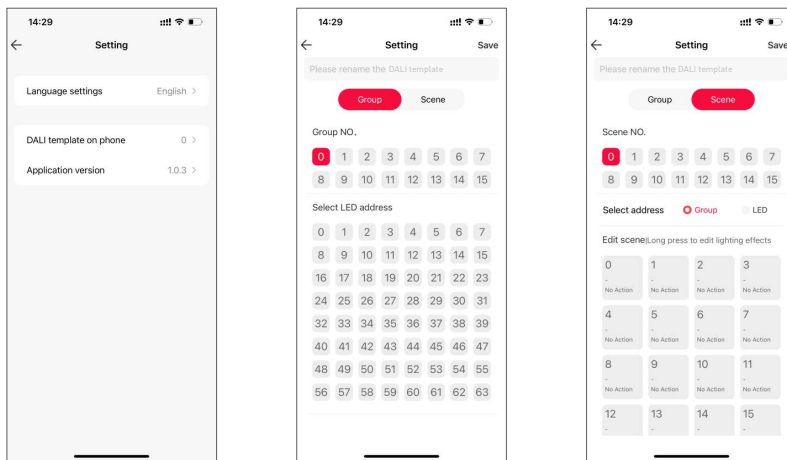
3. Write to the driver

After completing the parameter settings, click 【Write】 in the upper right corner and keep the programmer's sensing area close to the NFC logo of the driver, so the parameters can be written to the driver.

Advanced DALI template

Integrate the functions of the DALI lighting system, edit the DALI group and lighting effects of scenes, then save them in the advanced template to achieve lighting programming.

Setup page (for Read/Write LED driver) : Go to App home page — 【 ⊚ 】 icon in the top right — 【DALI template on pnone】.

Attentions

• Product installation and commissioning should be done by a qualified professional.

• This product is non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.

• Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.

• When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.

• Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.

• Please check whether the working voltage used complies with the parameter requirements of the product.

• Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.

• If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.

✳ This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

• Warranty periods from the date of delivery: 5 years.
• Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:
• Beyond warranty periods.
• Any artificial damage caused by high voltage, overload, or improper operations.
• Products with severe physical damage.
• Damage caused by natural disasters and force majeure.
• Warranty labels and barcodes have been damaged.
• No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

Update Log

Version	Updated Time	Update Content	Updated by
A0	20240221	Original version 6	Yang Weiling