

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.

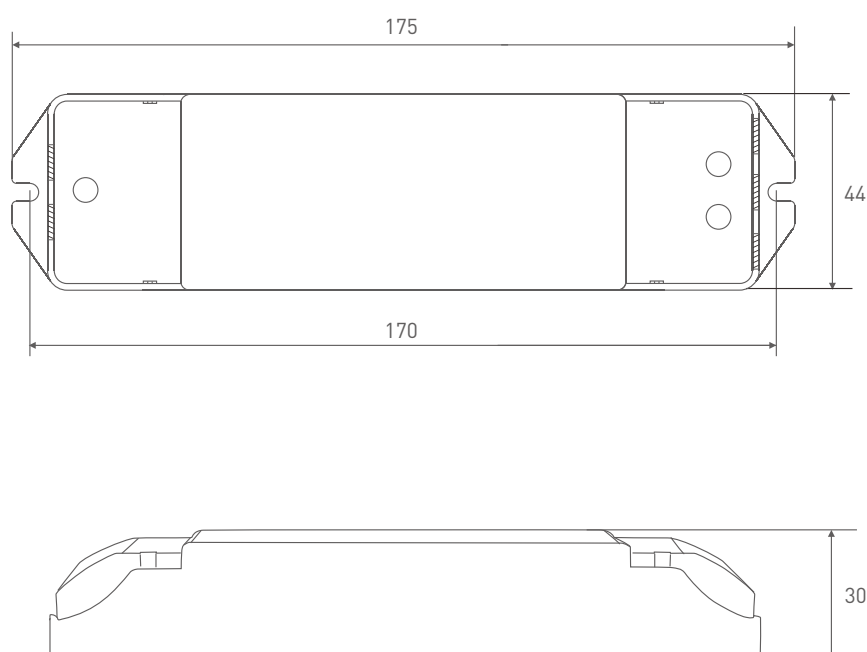


Product Parameters

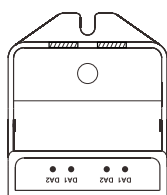
Model	LT-401-15A	Dimming Range	0~100%, down to 0.1%
Dimming Interface	DALI	Protection	Short circuit, over temperature and over current protection, self-recovery, against polarity reversal
Input Voltage	12-48V ---	Dimensions	L175×W44×H30(mm)
Output Voltage	12-48V ---	Package Size	L178×W48×H33(mm)
Output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

Product Size

Unit: mm

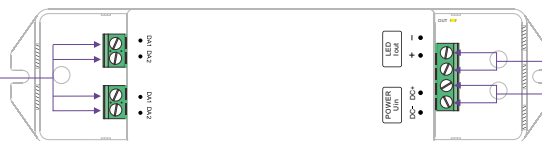


Terminal description



The wires of the DALI bus are non-polarized.

Two groups of DALI signal socket



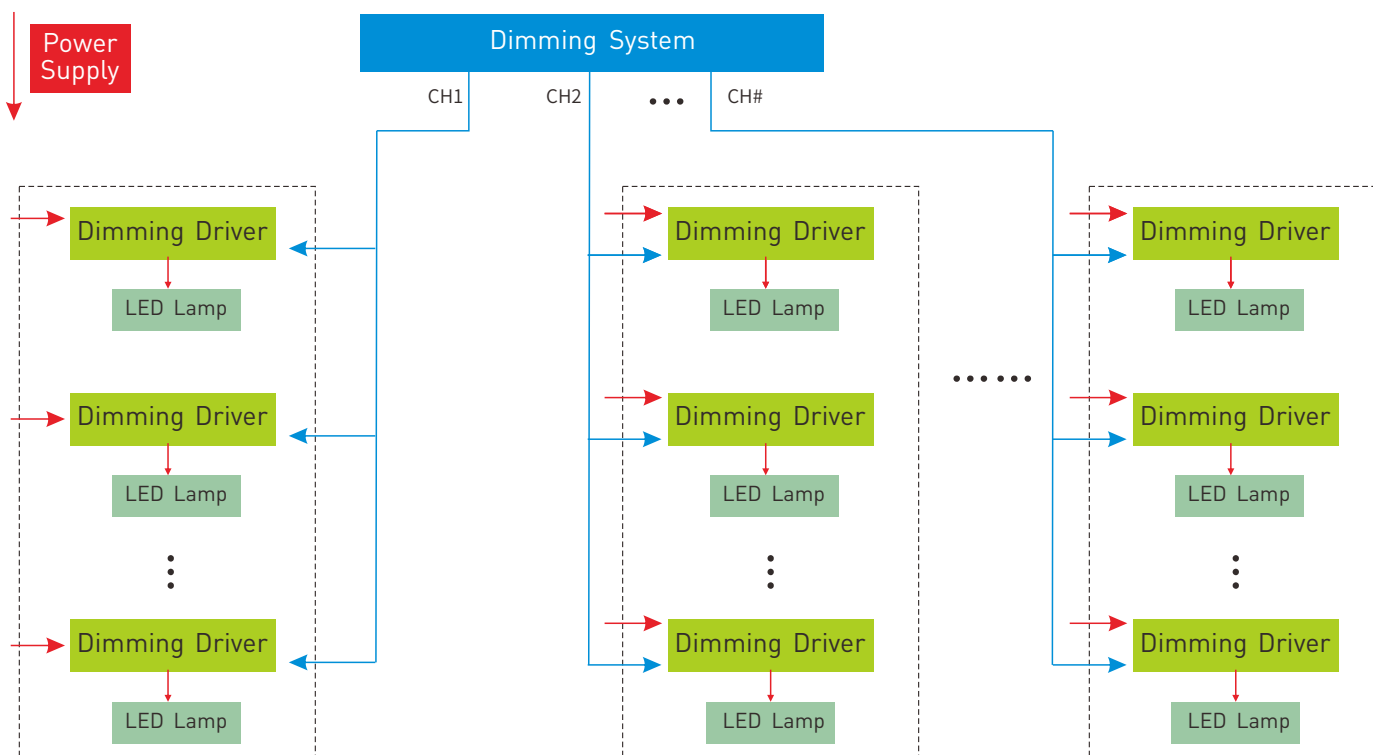
LED lamps connection socket
12-48Vdc power input socket

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 Voltage	Frequency	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 Voltage	Frequency	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

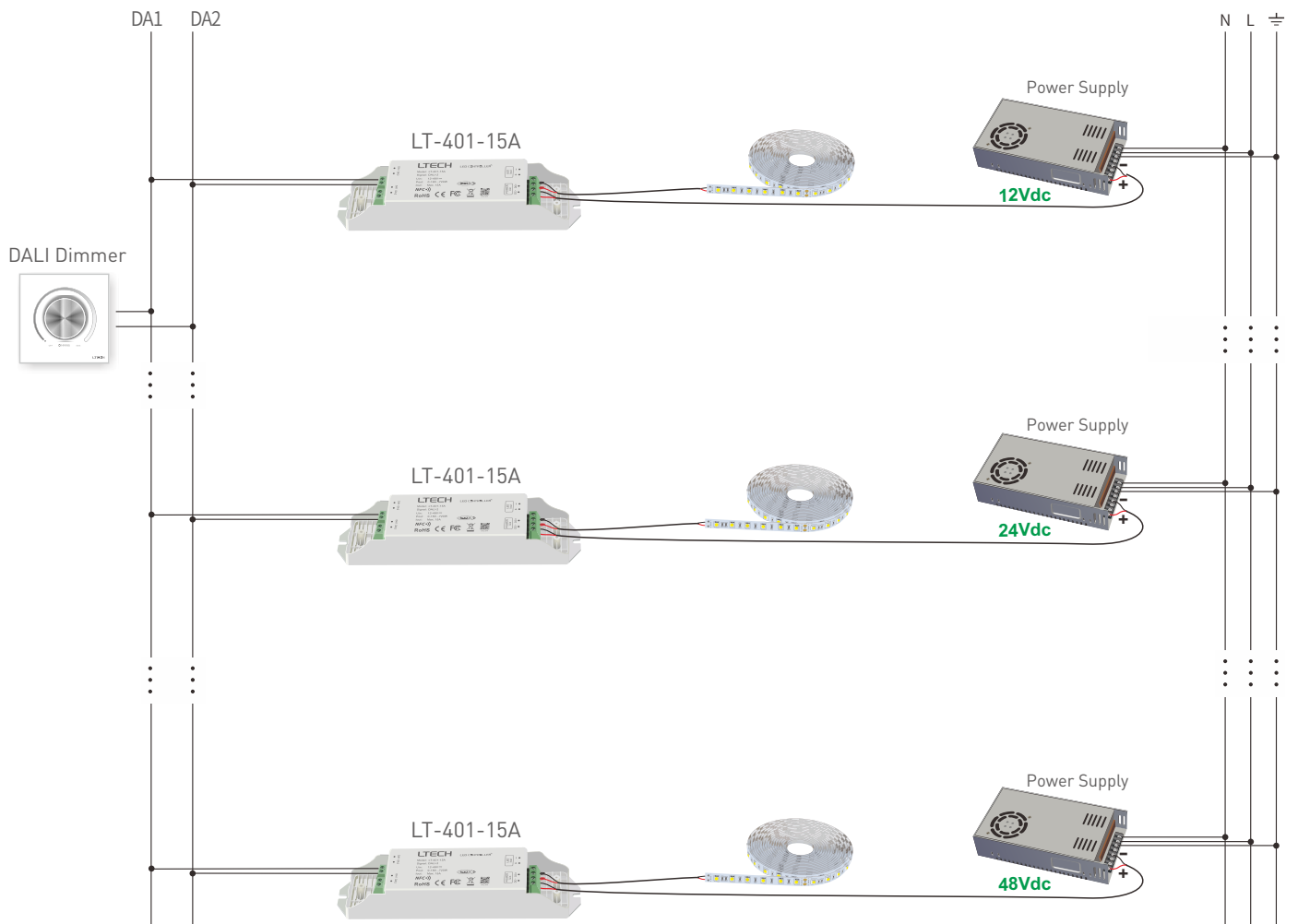


Wiring diagram

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).



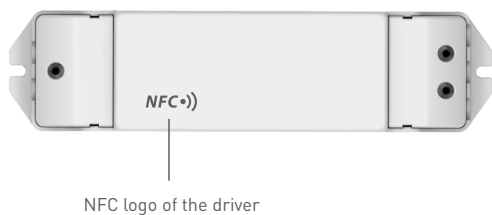
* Before you begin setting the parameters of the driver, please make sure the driver is powered off.

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.

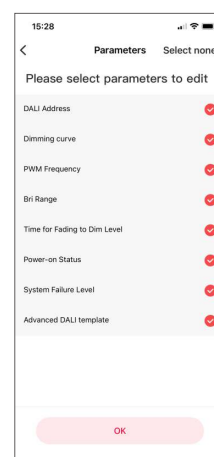
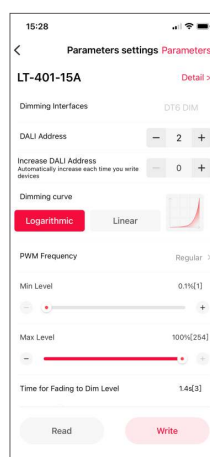
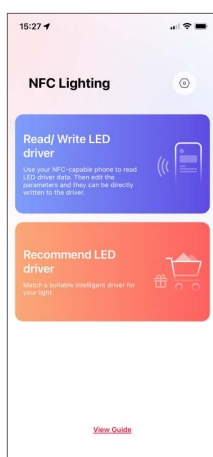


2. Edit the parameters

Click [Parameters] to edit more advanced parameters such as DALI address, dimming curve, PWM frequency, advanced DALI template, etc.

3. Write to the driver

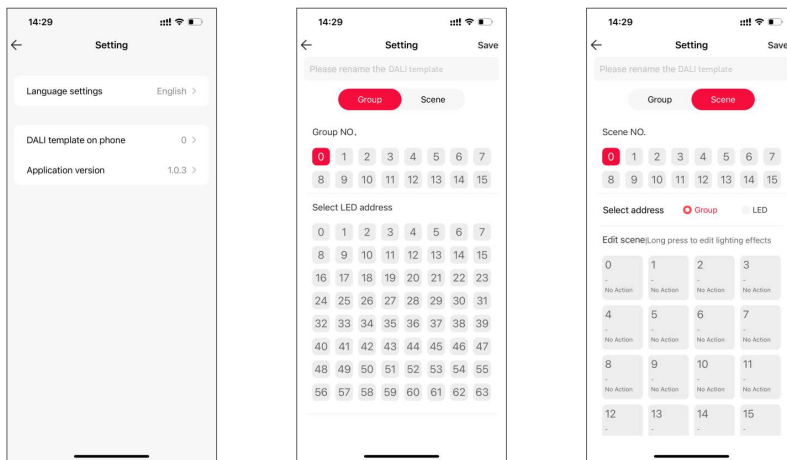
After completing the parameter settings, click [Write] in the upper right corner and keep the programmer's sensing area close to the NFC logo of the driver, so the parameters can be written to the driver.



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 phone】 .



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	Yang Weiling

DALI LED调光驱动器

- 带有标准DALI输入接口、DALI总线接线无需区分正负极
- PWM数字调光, 不改变LED的显色指数
- 调光范围: 0~100%, LED从0.1%开始调光
- 单通道恒压输出, 最大可负载15A电流
- DALI总线标准IEC62386-101、IEC62386-102、IEC62386-207
- 全防护塑胶外壳
- 适合室内LED照明环境应用
- 可通过NFC Lighting APP和我司NFC编程器可设置驱动器的DALI地址(含地址递增)、调光曲线、PWM频率等参数。



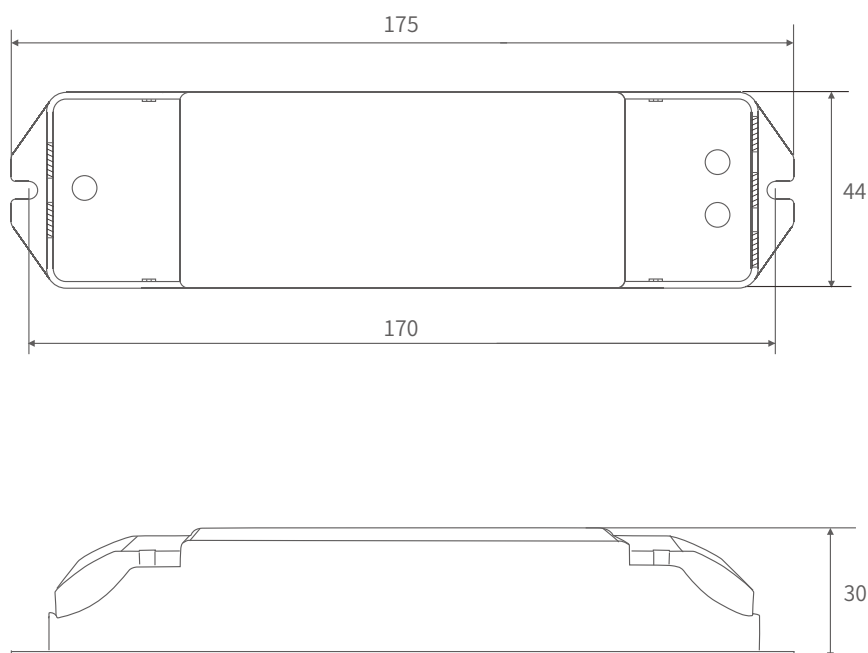
技术参数

产品型号	LT-401-15A
调光接口	DALI
输入电压	12-48V $\overline{\text{---}}$
输出电压	12-48V $\overline{\text{---}}$
输出电流	15A $\times$ 1路

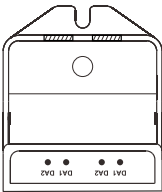
输出功率	0-180...720W (MAX.720W)
调光范围	0-100%, LED从0.1%开始调光
保 护	短路、过温、过流保护、可自行恢复、防反接
产品尺寸	L175 $\times$ W44 $\times$ H30(mm)
包装尺寸	L178 $\times$ W48 $\times$ H33(mm)

尺寸图

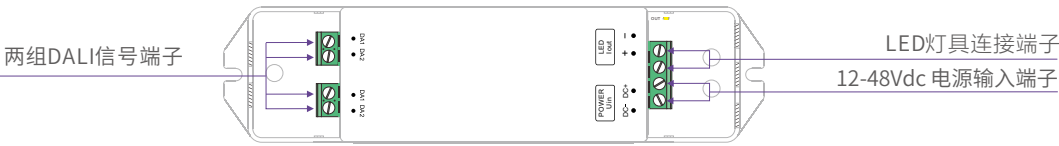
单位:mm



端子说明



DALI 总线
不用区分正负极



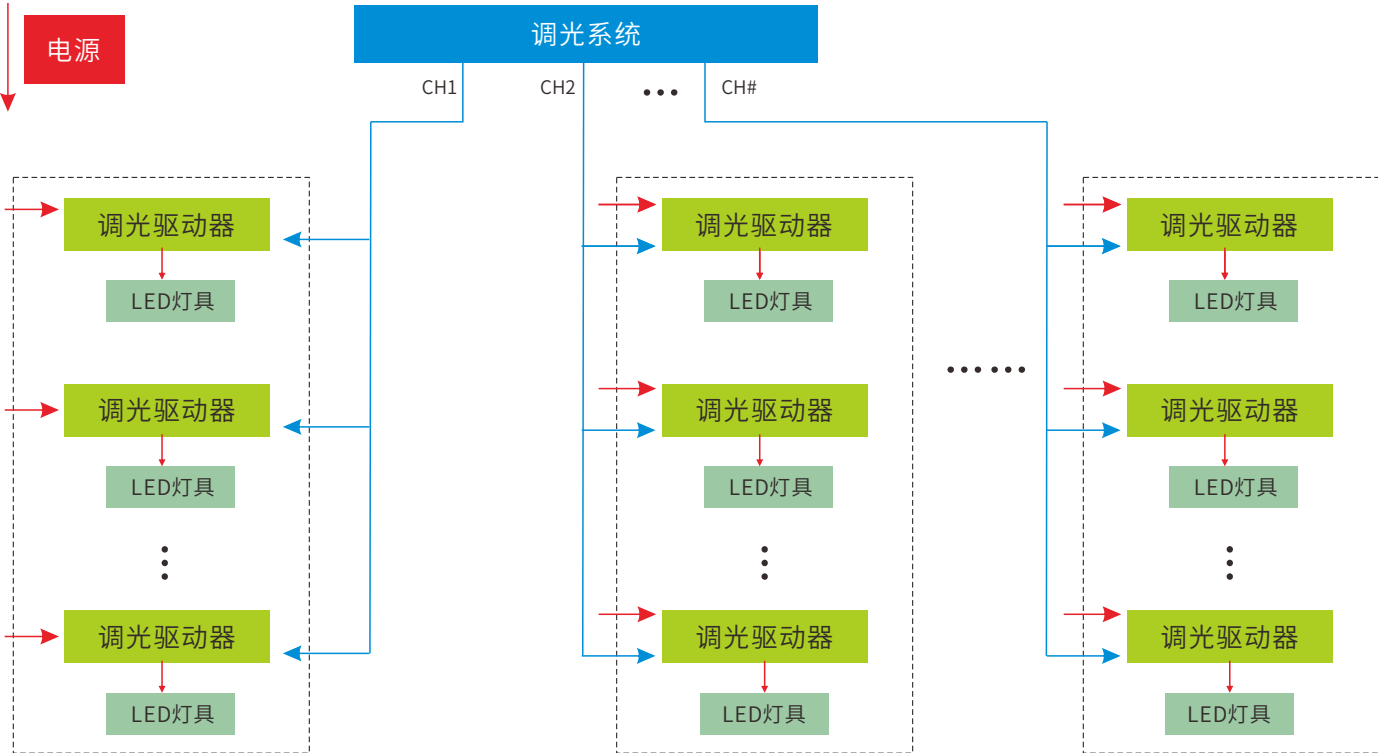
带载功率表

不同PWM频率、不同电压下，每路最大带载电流和总功率不同。接线前，请严格按照表格中的带载参数进行操作。

电流/功率 电压 \ 频率	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

电流/功率 电压 \ 频率	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

系统连接图

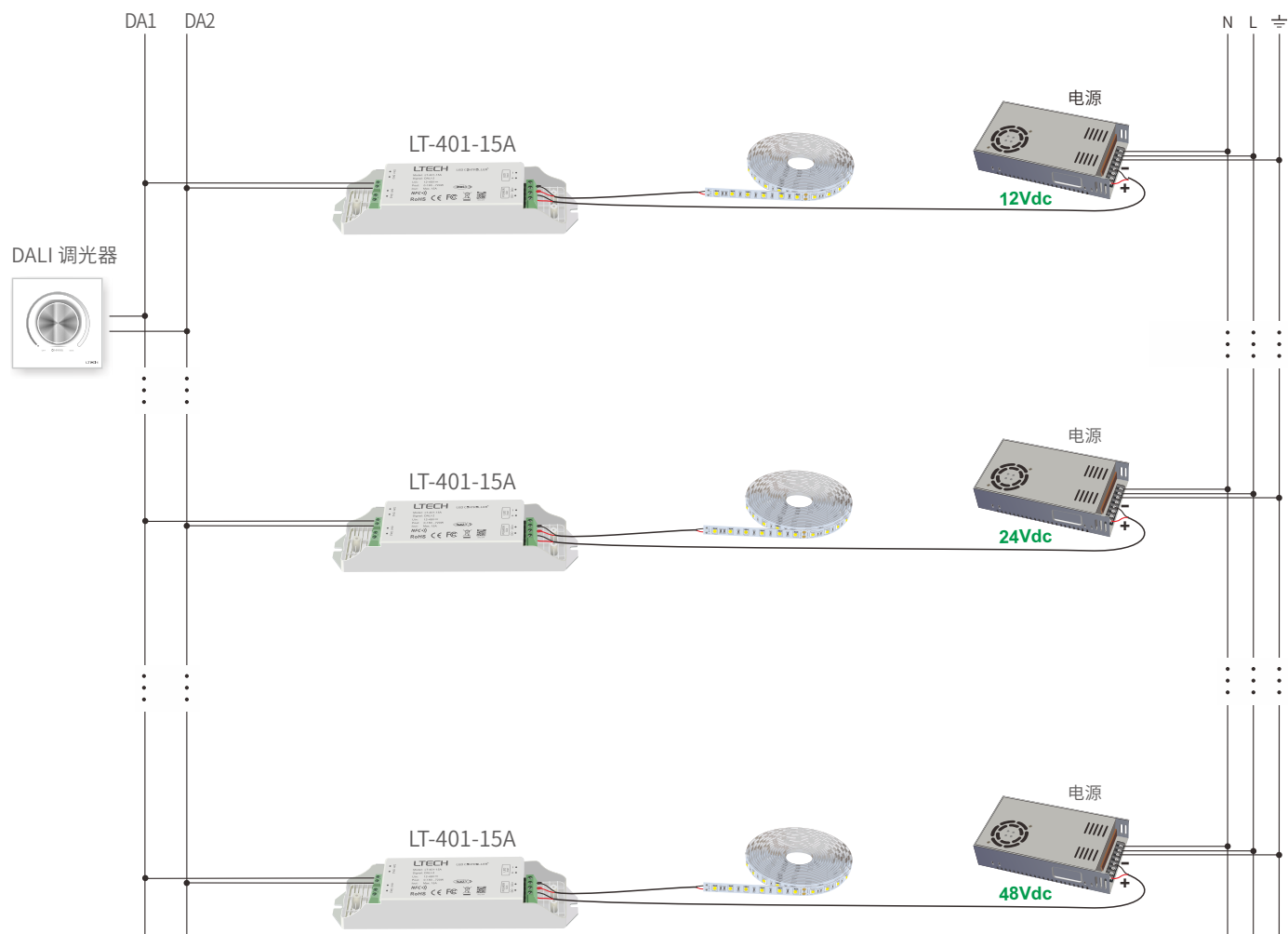


接线图

连接12V LED灯具，可带载最大180W；

连接24V LED灯具，可带载最大360W；

连接48V LED灯具，可带载最大720W。



搭配 NFC Lighting APP 使用

通过手机扫描下方二维码，按提示完成APP安装。(因性能需求，要求手机型号苹果：iPhone 8及以上、且操作系统iOS13及以上； 安卓：具备NFC功能机型)



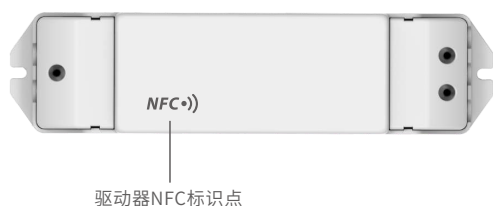
* 设置驱动器参数时，必须在驱动器断电情况下进行操作。

读/写智能电源

使用手机，通过NFC读取驱动器信息，根据需求设置参数后，可直接写入驱动器。

1. 读取驱动器

在APP“首页”点击【读/写智能电源】，将手机感应区域靠近驱动器NFC标识点，读取驱动器参数。



2. 编辑参数

点击【参数管理】可编辑DALI地址、调光曲线、PWM频率、DALI高级模板等更多高级参数。

3. 写入驱动器

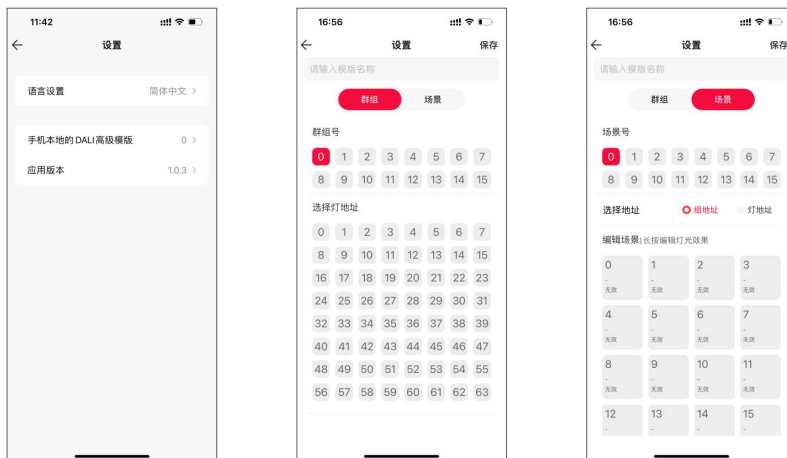
参数设置完成后，点击右上角【写入】，将手机感应区域靠近驱动器NFC标识点，即可写入驱动器成功修改参数。



DALI高级模板

整合DALI灯光系统的设置功能，编辑DALI群组 and 场景的灯光效果并保存为高级模板，实现灯光编程。

读/写智能电源设置入口：APP首页 — 右上角【☰】图标 — 【手机本地的DALI高级模板】



注意事项

- 请由具有专业资格的人员进行调试安装。
- 雷特产品(专有型号除外)不能防水防雷,需避免日晒雨淋,如安装在户外,请用防水箱和防雷装置。
- 良好的散热条件会延长产品的使用寿命,请把产品安装在通风良好的环境。
- 请检查使用的工作电压是否符合产品的参数要求。
- 使用的电线直径大小必须能够负载连接的LED灯具,并确保接线牢固。
- 通电调试前,应确保所有接线正确,以避免因接线错误而导致灯具损坏。
- 如果发生故障,请勿私自维修;如有疑问,请联系供应商。

* 本说明书的内容如有变更,恕不另行通知。若内容与您使用的功能有所不同,则以实物为准。如有疑问,请与供应商联系。

保修条例

- 自出厂之日起保修服务期为5年。
- 在保修服务期内出现产品质量问题雷特将给予免费修理或更换服务。

非保修条例:

属下列情况不在免费保修或更换服务范围之内:

- 已经超出保修服务期;
- 过高电压、超负载、操作不当等人为造成的损坏;
- 产品外形严重损坏或变形;
- 自然灾害以及人力不可抗拒原因造成的损坏;
- 产品保修标签和产品唯一条形码损坏;
- 无雷特签订的合同或发票凭证。

- 1.修理或更换是雷特对客户的一补救措施。雷特不承担任何附带引起的损害赔偿,除非在适用法律范围之内。
- 2.雷特享有修正或调整本保修条款的权利,并以书面形式发布为准。

更新日志

版本	更改日期	更改内容	更改人
A0	20240221	正稿	杨魏玲