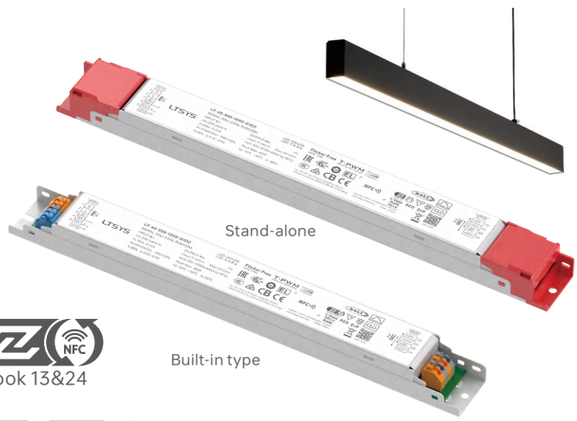
LTSYS

LF-40-300-1050-G1D2

**DALI-2 DT6 PUSH DIM**

# Office Linear Smart Dimming Power Supply (Constant Current Type)

- Slim metal housing.
- Overall design complies with Zhaga standards: built-in models meet Zhaga Book 13 and Book 24 specifications, while standalone models meet Zhaga Book 24 requirements.
- Supports DALI-2 DT6/DT8, PUSH DIM/CCT, and corridor lighting dimming/ color temperature adjustment.
- Supports full-command NFC rapid programming, enabling users to modify output current, DALI address, and other parameters via a mobile app using NFC, thereby achieving driver data interaction functionality.
- Supports L-Data functionality, enabling access to DALI Part 251 (luminaire data query), Part 252 (energy report reading), and Part 253 (diagnostic and maintenance data reading) via the DALI master controller, providing robust data support for intelligent management platforms.
- NFC settings feature current step values as low as 1mA, delivering enhanced compatibility and finer control.
- T-PWM ultra-deep dimming technology achieving 0.01% dimming depth.
- 0-100% full-range dimming with zero visible flicker, meeting high-frequency exemption standards.
- Features soft-start gradual brightening for enhanced visual comfort.
- Supports CLO light decay compensation to ensure consistent illumination brightness.
- Supports EL emergency lights; in DC emergency mode, the current defaults to 15%.
- Supports wired firmware upgrades for devices.
- EU ERP no-load power consumption and network standby power consumption < 0.5W.
- 0V output at no load to prevent LED fixture damage from poor contact.
- Over-temperature, over-voltage, overload, and short-circuit protection with automatic recovery.
- Suitable for indoor Class I, II, and III luminaires, such as linear lights, triple-proof lights, floor lamps, bracket lights, and other linear or ultra-thin fixtures.
- Lifespan up to 100,000 hours under normal use. 5-year warranty.




DALI 2

DIM

**Flicker Free**
IEEE 1789

**T-PWM**
Dimming Technology

Book 13&24

Dimmable: 1:10000

CLO

corridor DIM

EL

**L-Data** 251/252/253

SELV RoHS

ErP

The certification icon represents undergoing certification applications only, and final certification qualification subject to actual product.

Multi current setting

Overheat Protection

Over voltage protection

Over Load protection

Short circuit protection

## Technical Specs

| Model | | LF-40-300-1050-G1D2 (Stand-alone) | | | LF-40-300-1050-G1D2 (Built-in type) |
|---|---|---|---|---|---|
| FEATURES | Output Type | Constant current | | | |
| | Dimming Interface | DALI-2 Dt6, DALI Part 251/252/253, PUSH DIM | | | |
| | Output Feature | Isolation | | | |
| | Zhaga Standard | Book 24 | | | Book 13,24 |
| | Installation Method | Can be independently installed in ceilings or light channels, etc. | | | Installed inside the luminaire |
| | Other Features | EL Emergency Lights, Lumen Maintenance Compensation, Corridor Lighting Applications | | | |
| | IP Rating | IP20 | | | |
| | Insulation Class | Class II (Suitable for class I/II/III light fixtures) | | | |
| OUTPUT | Output Voltage | 9-54V⎓ | | | |
| | Max. Output Voltage(No-load) | ≤59.5V⎓ | | | |
| | Rated Current Range | 300-1050mA (Set higher current levels via the mobile app's NFC feature, with step increments as low as 1mA; Default: 300mA) | | | |
| | Load Power Range | 2.7-40W | | | |
| | Dimming Range | 0~100%，Dimming depth: 0.01% | | | |
| | LF Current Ripple | < 5%(Maximum current for non dimming state) | | | |
| | Current Accuracy | ±5% | | | |
| | PWM Frequency | ≤3600Hz | | | |
| INPUT | AC Voltage Range | 220-240V～ | | | |
| | DC Voltage Range | 220-240V⎓ | | | |
| | Rated Voltage | 230V～ | | | |
| | Frequency | 0/50/60Hz | | | |
| | Input Current | ≤0.22A/230V～ | | | |
| | Power Factor | PF > 0.9/230V～(Fully loaded) | | | |
| | THD | 230V～@THD<10% (Fully loaded) | | | |
| | Efficiency(Typ.) | 88% | | | |
| | Inrush Current | Cold start20A(Test twidth=137us tested under 50% Ipeak)/230V ～ | | | |
| | Anti Surge | L-N: 2KV L-FG/N-FG: 4KV | | | |
| | Leakage Current | Max.0.5mA | | | |
| ENVIRONMENT | Operating Temperature | ta:-20°C~50°C tc:80°C | | | |
| | Working Humidity | 20~95%RH，non-condensing | | | |
| | Storage Temperature/Humidity | -40~80°C/10~95%RH | | | |
| | Temperature Coefficient | ±0.03%/°C(-20°C~50°C) | | | |
| | Vibration | 10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively | | | |
| PROTECTION | Overload Protection | Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced | | | |
| | Overheat Protection | Intelligently adjust or turn off the current output if the PCB temperature ≥110°C. When the PCB temperature <90°C, automatically recover normal output | | | |
| | Overvoltage Protection | Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically | | | |
| | Short Circuit Protection | Enter hiccup mode if short circuit occurs, and recover automatically | | | |
| SAFETY & EMC | Withstand Voltage | I/P-O/P: 3750V～/1min/ < 5mA，I/P-FG: 1750V～/1min/ < 5mA，O/P-FG:500V～/1min/ < 5mA，Signal-FG:500V～/1min/ < 5mA ① | | | |
| | Insulation Resistance | I/P-O/P: 100MΩ/500V～/1min/25°C/70%RH | | | |
| | Safety Certifications | CCC | China | GB19510.1，GB19510.14，GB19510.213 | |
| | | TUV | Germany | EN61347-1，EN61347-2-13，EN62493 | |
| | | CB | CB Member States | IEC61347-1，IEC61347-2-13 | |
| | | CE | European Union | EN61347-1，EN61347-2-13，EN62384 | |
| | | EAC | Russia | IEC61347-1，IEC61347-2-13 | |
| | | RCM | Australia | AS 61347-1，AS 61347-2-13 | |
| | | ENEC | Europe | EN61347-1，EN61347-2-13，EN62384 | |
| | EMC Emission | CCC | China | GB/T17743，GB17625.1 | |
| | | CE | European Union | ENIEC55015，ENIEC61000-3-2，EN61000-3-3 | |
| | | EAC | Russia | IEC62493，IEC61547，EH55015 | |
| | | RCM | Australia | EN55015，EN61000-3-2，EN61000-3-3，EN61547 | |
| | EMC Immunity | EN61000-4-2,3,4,5,6,8,11,EN61547 | | | |
| ErP | Power Consumption | Networked standby | | < 0.5W(After shutdown by command) | |
| | | No-load power consumption | | < 0.5W (When the lamp is not connected) | |
| | Flicker/Stroboscopic Effect | IEEE1789 | | Meet IEEE 1789 standard/High frequency exemption level | |
| | | CIE SVM | | PstLM≤1.0，SVM≤0.4 | |
| OTHERS | Weight(N.W.) | 260g±5g | | | 245g±5g |
| | Dimensions | 305x30.5x21.3mm(LxWxH) | | | 280x30.5x21.3mm(LxWxH) |

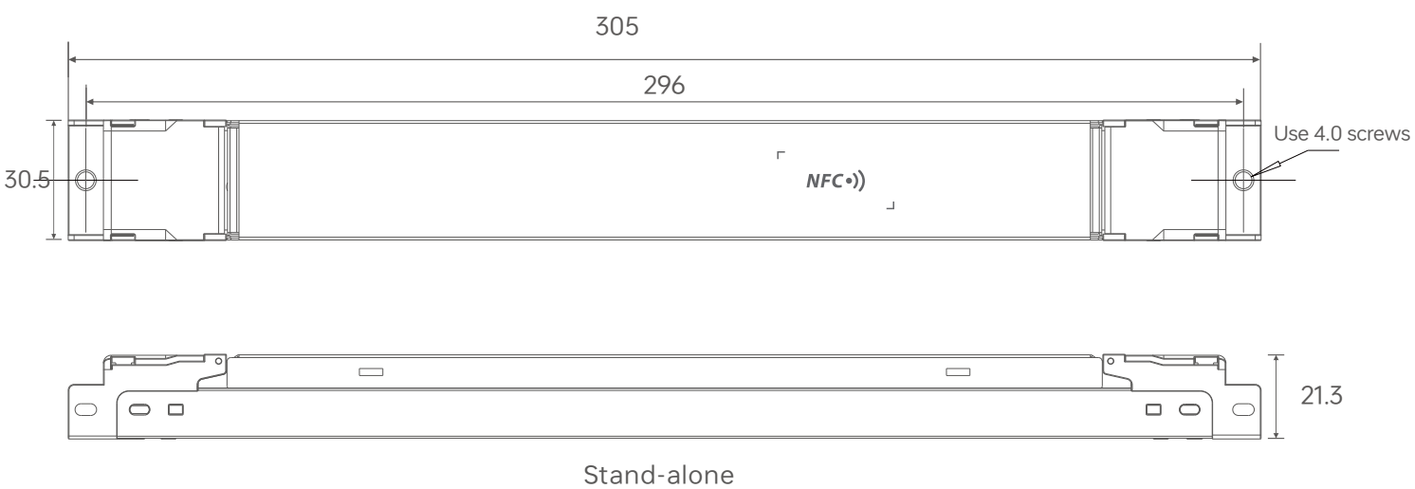
①Note: When performing a withstand voltage test to ground (FG), the gas discharge tube at the drive input must be temporarily removed to prevent functional operation of the internal gas discharge tube (see IEC 60598-1-10.2). After testing is complete, it must be reinstalled to restore surge protection functionality for the power line to ground and ensure reliable contact.

## Typical Current Corresponding Parameter Table

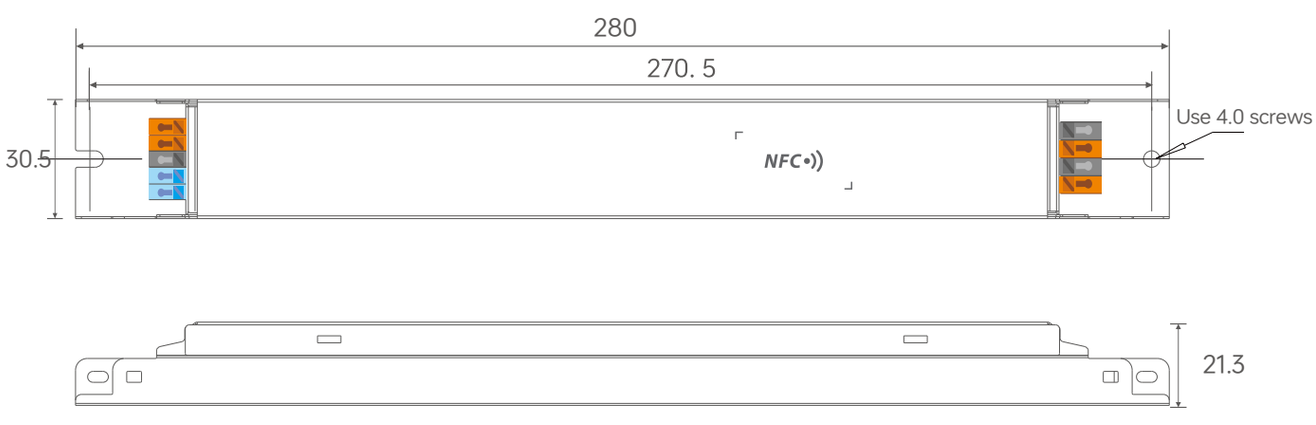
| The following 16 groups of typical current data are provided for model selection reference. More currents can be set via the mobile phone APP NFC. The settable range is 300-1800mA, and the current step value can be as low as 1mA. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| LF-40-300-1050-G1D2 | Output Current | 300mA | 350mA | 400mA | 450mA | 500mA | 550mA | 600mA | 650mA |
| | Output Voltage | 9-54Vdc | 9-54Vdc | 9-54Vdc | 9-54Vdc | 9-54Vdc | 9-54Vdc | 9-54Vdc | 9-54Vdc |
| | Output Power | 2.7-16.2W | 3.15-18.9W | 3.6-21.6W | 4.05-24.3W | 4.5-27W | 4.95-29.7W | 5.4-32.4W | 5.85-35.1W |
| | Output Current | 700mA | 750mA | 800mA | 850mA | 900mA | 950mA | 1000mA | 1050mA |
| | Output Voltage | 9-54Vdc | 9-53Vdc | 9-50Vdc | 9-47Vdc | 9-44.5Vdc | 9-42Vdc | 9-40Vdc | 9-40Vdc |
| | Output Power | 6.3-37.8W | 6.75-39.75W | 7.2-40W | 7.65-39.95W | 8.1-40.05W | 8.55-39.9W | 9-40W | 9.45-39.9W |

## Product Size

Unit: mm



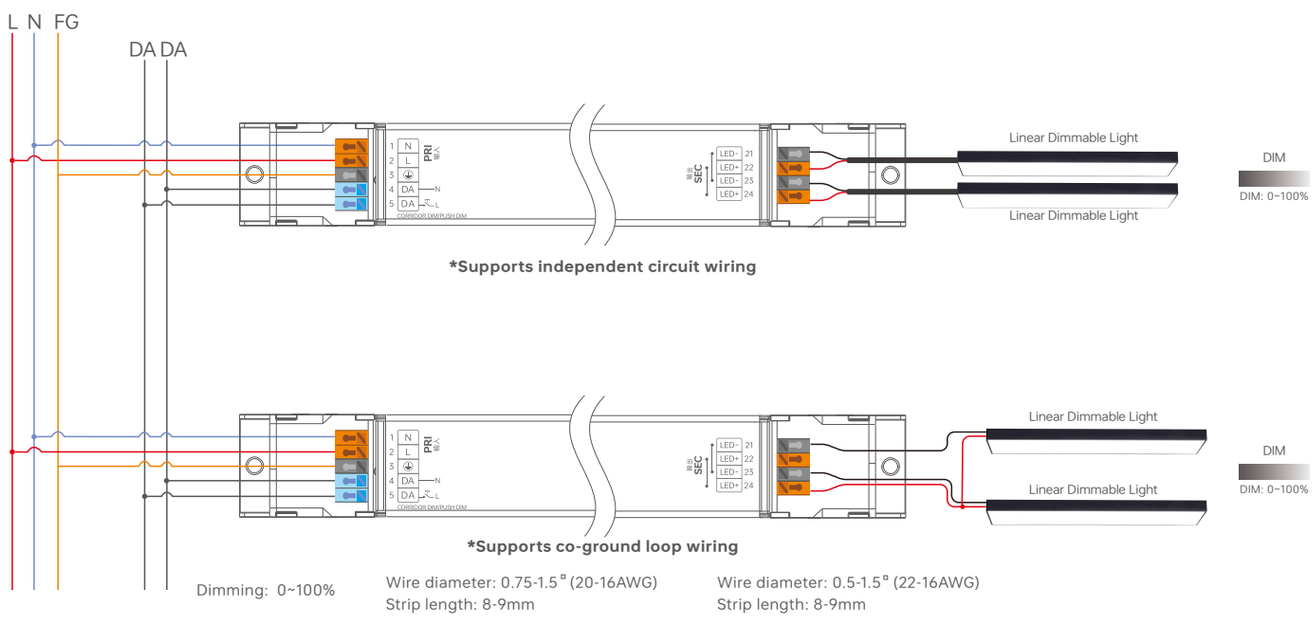

Stand-alone




Built-in type

# Connectivity Diagram

## DALI Connection Method




Dimming: 0~100%

Wire diameter: 0.75-1.5㎟ (20-16AWG)
Strip length: 8-9mm

Wire diameter: 0.5-1.5㎟ (22-16AWG)
Strip length: 8-9mm

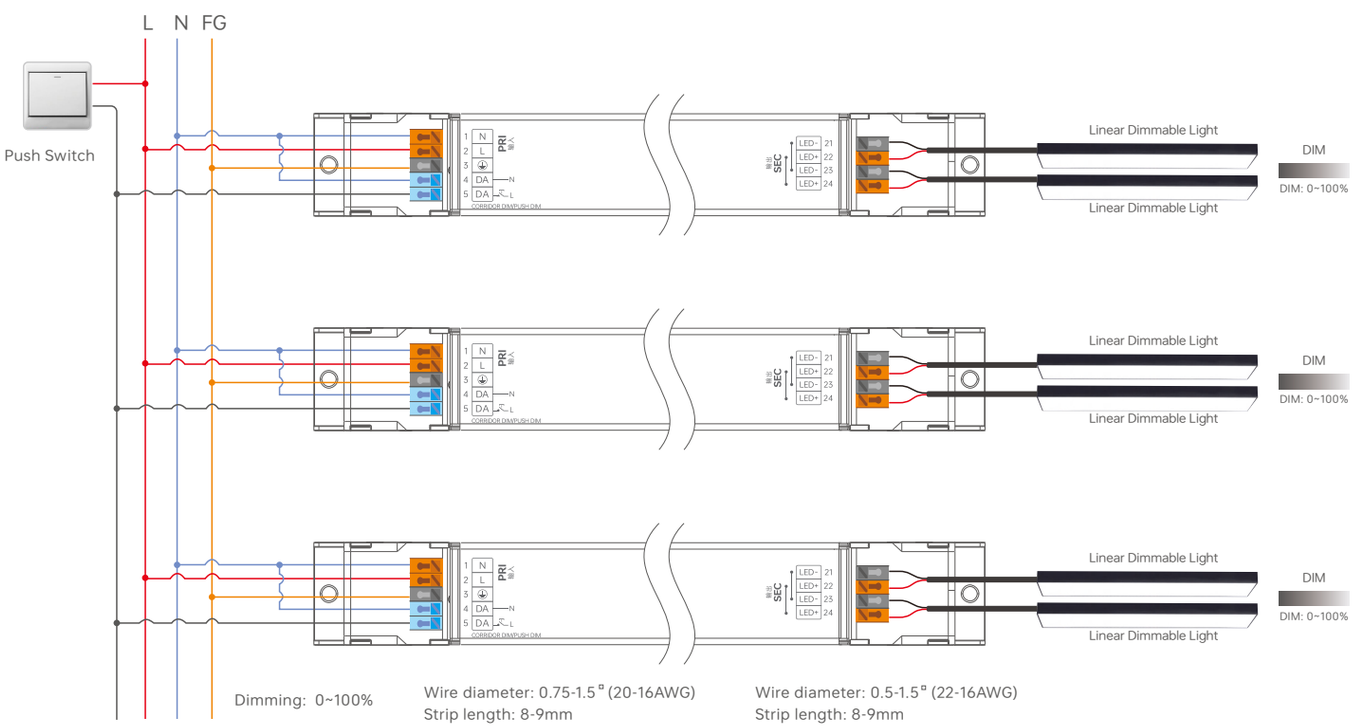
✻ When DC voltage is applied, button dimming is disabled.

✻ The dimming interface priority is as follows: DALI first, followed by PUSH DIM.

### Switch to DALI dimming mode

After installation according to the DALI dimming application wiring diagram, the driver will automatically switch to DALI dimming mode upon receiving any DALI command.

## PUSH DIM Connection Method




Dimming: 0~100%

Wire diameter: 0.75-1.5㎟ (20-16AWG)
Strip length: 8-9mm

Wire diameter: 0.5-1.5㎟ (22-16AWG)
Strip length: 8-9mm

Push Switch

### Operation Instructions

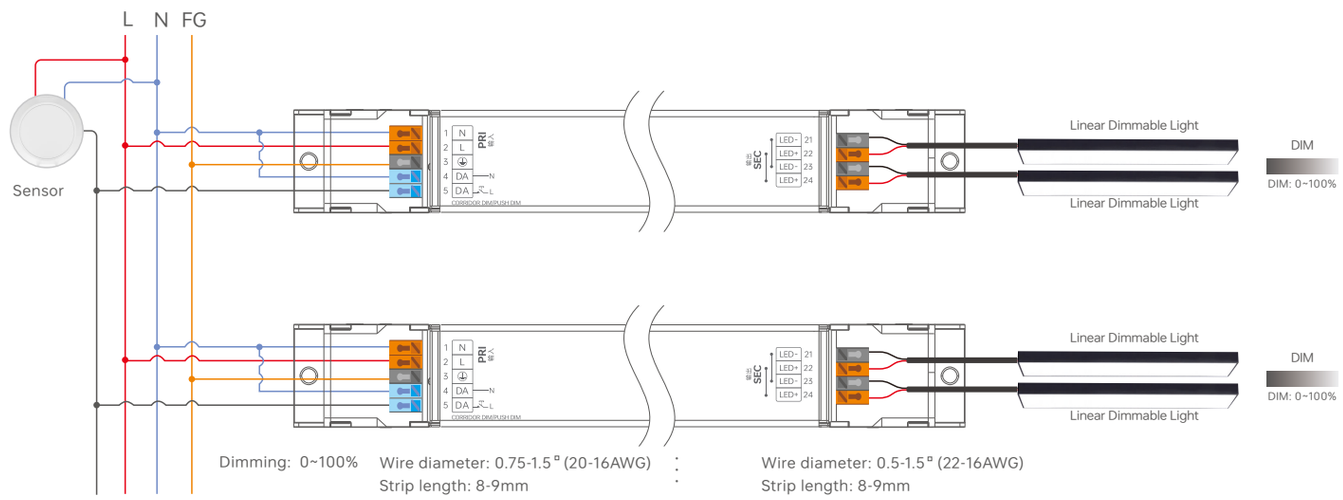
- Short press : on/off control.
- Long press: Brightness adjustment +/-, each subsequent long press will adjust the brightness in the opposite direction.
- Dimming Memory: When switched on or off again, the light will return to the previously adjusted brightness level.

### Switch to PUSH DIM dimming mode

Method 1: If already switched to Corridor Dimming mode, connect the wiring according to the PUSH DIM wiring diagram. Reset the switch by pressing it 5 times within 3 seconds, then hold it down for 6 seconds, followed by pressing it 5 times within 3 seconds. The driver will automatically switch to PUSH DIM dimming mode.

Method 2: If already switched to Corridor Mode, you can switch to PUSH DIM dimming mode via the NFC Lighting app.

## Corridor Light Mode Connection




**Switch to the corridor light mode**

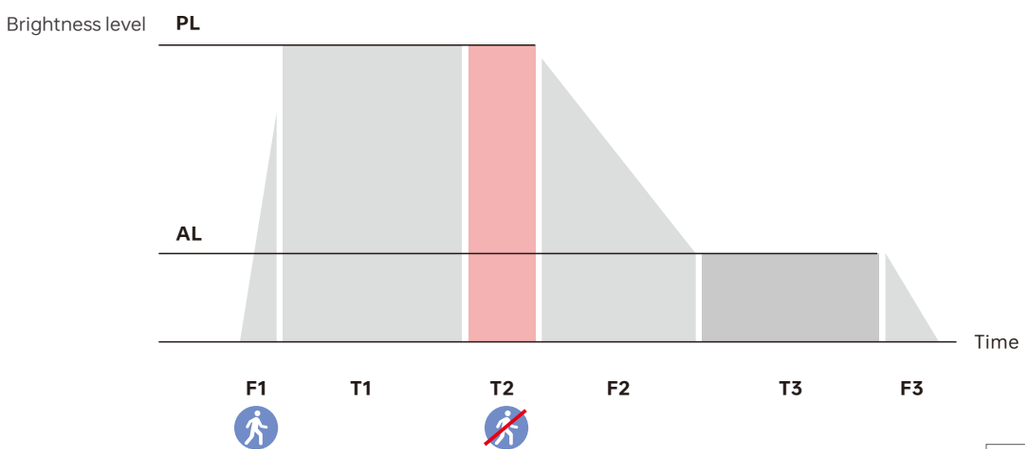
**Method 1:** Switch the driver to the corridor light mode via the NFC Lighting app, and the Push DIM mode will be turned off.

**Method 2:** After connecting the wires according to the corridor dimming wiring diagram, keep moving within the effective sensing area for more than 2 minutes, and it will automatically switch to the corridor dimming mode with all lights on at full brightness.

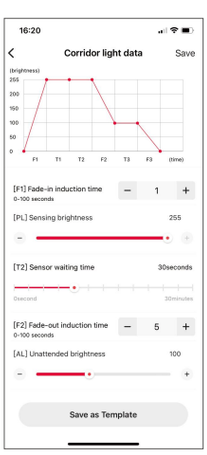
**Method 3:** After connecting the wires according to the corridor dimming wiring diagram, first replace the sensor with a common switch, then turn on the common switch and keep it conducting for 2 minutes. The driver will automatically switch to the corridor dimming mode. After that, remove the common switch and replace it with the sensor again.

**Note:**: During normal operation, it is recommended to set the hold-time of the motion sensor to the minimum.
It is necessary to select a motion sensor with an AC switch.

## Process of Corridor Dimming

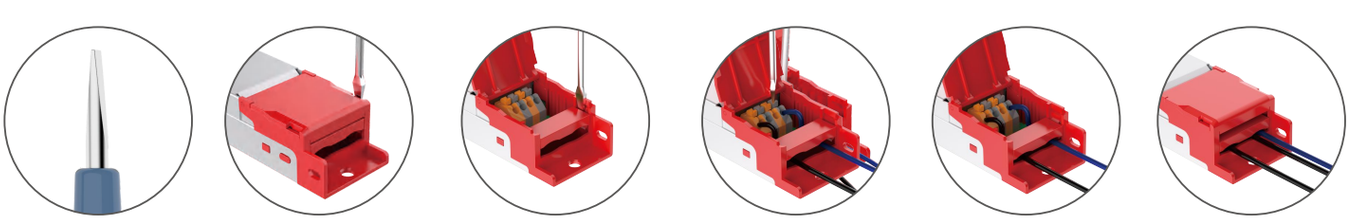



| Name | Default | Setting Range |
|---|---|---|
| (F1) Fade-in Detection Time | 1 s | 0-100 s |
| (PL) Detection Brightness | 255 | 0-255 |
| (T1) Induction Hold Time | Set via the sensor | |
| (T2) Delay Time | 30 s | 0 s,5 s,10 s,20 s,30 s,45 s,1 min, 2 min, 3 min,5 min,10 min,20 min,30 min |
| (F2) Gradual Exit Sensing Time | 1 s | 0-100 s |
| (AL) Hold Brightness Level | 100 | 0-255 |
| (T3) Detection Hold Time | 30 s | 0 s,5 s,10 s,20 s,30 s,45 s,1 min,2 mins,3 mins,5 mins, 10 mins,20 mins,30 mins,Permanent |
| (F3) Fade-out Time to Off | 1 s | 0-100 s |



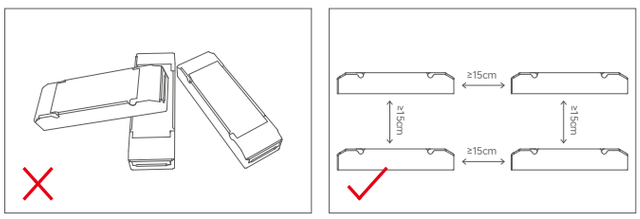

**Note:** *If the lamp needs to be on standby at a low brightness level, the [T3] Sensing Standby Time should be set to "Permanent".
*The above parameters are set through the NFC lighting APP.

## Protective Housing Application Diagram

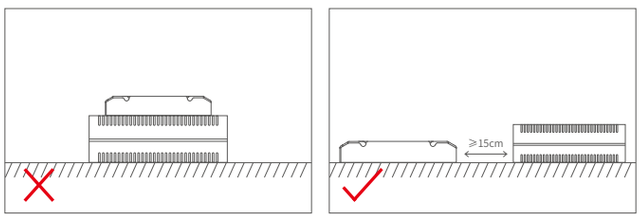


1. Prepare a screwdriver with a 0.6mm bit.
2. Use a screwdriver to pry up the protective cover on the side panel.
3. Use a screwdriver to pry up the side of the terminal block.
4. Connect the wiring according to the wiring diagram.
5. Press down on the wire board to secure the wire.
6. Close the protective cover.

# Installation Precautions

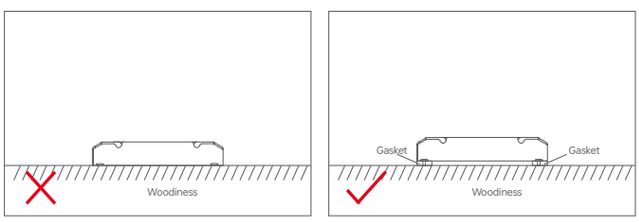



Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation or the lifetime of the products.




Please not place the products on power supplies. The distance between the product and the power supplies should be ≥15cm so as not to aśect heat dissipation or shorten the lifetime of the products.

Note: Installation must comply with the product's operating temperature range. Do not install inside lighting fixtures to avoid exceeding the product's operating temperature range, which may affect its lifespan.




Do not fix the product screws tightly against the wooden board. Instead, add a washer with a thickness of ≥ 7mm under the fixing screws. Leaving some gaps can effectively dissipate heat, preventing any impact on the product's heat dissipation performance and service life.

# 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.

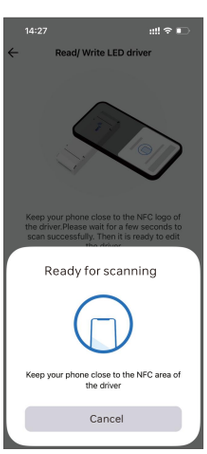
## Read/Write the LED driver

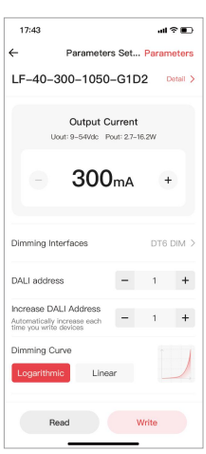
Use your NFC-capable phone to read LED driver data, then edit the parameters and they can be directly written to the driver.

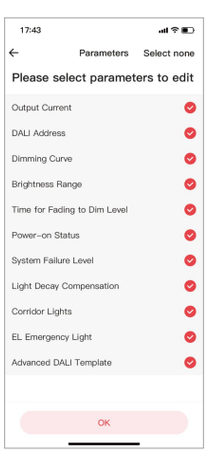
**1.Read the LED driver**
On the APP home page, click【Read/Write LED driver】, then keep the programmer's sensing area close to the NFC sensing area of the driver to read the driver parameters.


**2. Edit parameters**
Click on [Parameter Management] to edit more advanced parameters such as Output Current, DALI Address, Dimming Curve, Brightness Range, Time for Fading to Dim Level, Power-on Status, System Failure Level, Light Decay Compensation, Corridor Lights, EL Emergency Light, Advanced DALI Template and Corridor Light.

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

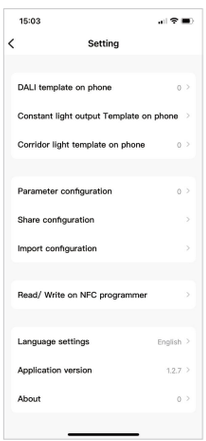



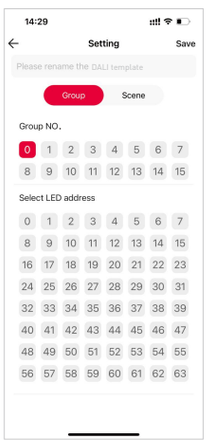



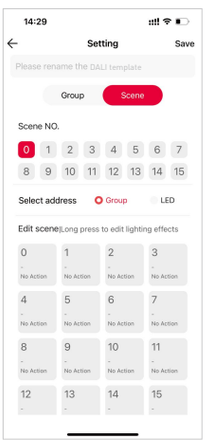
## Advanced DALI template

Integrate the functions of the DALI lighting system, edit the DALI group and lighting effects for 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】.

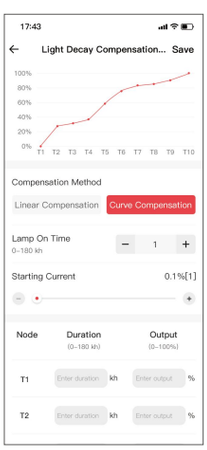


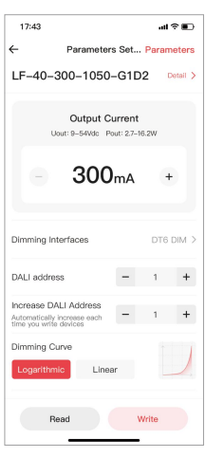

## Light Decay Compensation

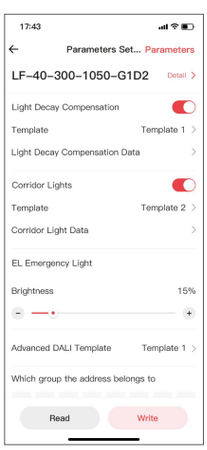
Lumen Maintenance Compensation primarily serves to sustain constant luminous flux output from LEDs. Throughout the LED's entire lifespan, it gradually increases the drive current to counteract lumen depreciation caused by prolonged operation, thereby ensuring consistent light output.



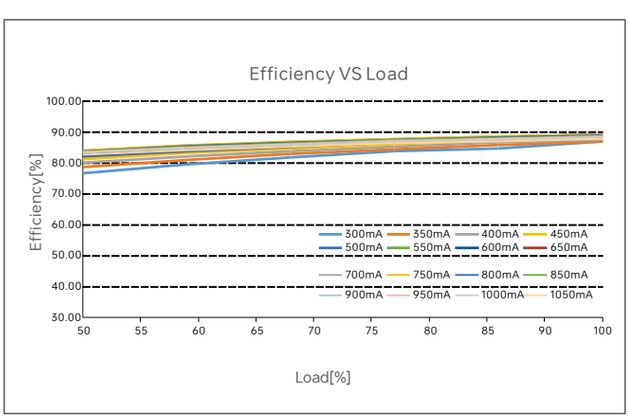

## EL Emergency Light

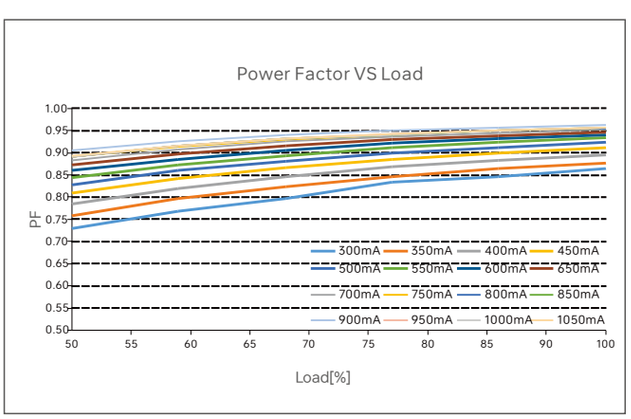
- The power supply operates normally with DC input.
- When using DC input, connect the positive terminal of the DC cable to the L terminal and the negative terminal to the N terminal.
- The output current can be configured via the NFC lighting app.

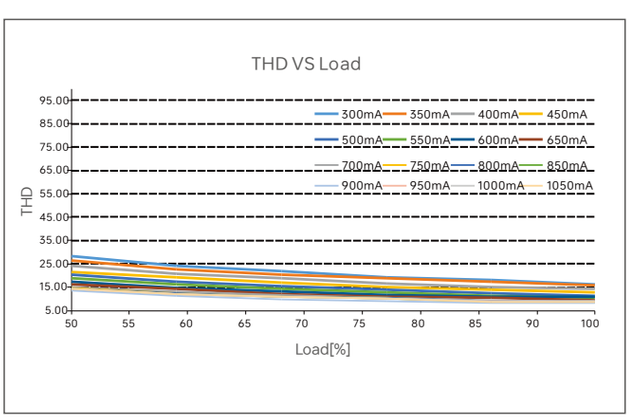


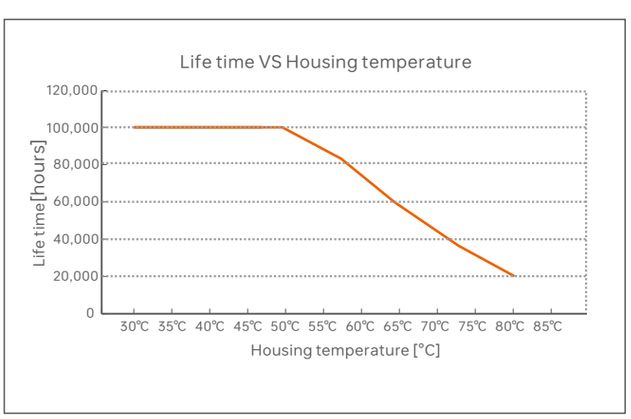




# Relationship Diagrams



## Surge Current & Corresponding Miniature Circuit Breaker (MCB) Load Capacity Table

| MCB Model | B10 | B13 | B16 | B20 | B25 | C10 | C13 | C16 | C20 | C25 | D10 | D13 | D16 | D20 | D25 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Load Capacity | 15 | 19 | 24 | 30 | 40 | 17 | 22 | 27 | 35 | 43 | 20 | 25 | 31 | 39 | 49 |

Remarks:

1. Test Conditions: Cold start 20A(Test twidth=137us tested under 50% Ipeak)/230V～.
2. The number of supported drivers may vary depending on the brand and model of the MCB.
3. It is recommended not to exceed the specified load capacity during on-site installation. The actual load should be determined based on field conditions.
4. If the ambient temperature exceeds 30℃ or multiple MCBs are installed side by side, the number of installed drivers must be reduced and recalculated accordingly.
5. Electricians typically use Type B MCBs for residential lighting and Type C MCBs for commercial lighting applications.
6. Different testing equipment may yield variations in measured current peaks and pulse widths. Always use professional-grade instruments for accurate testing.

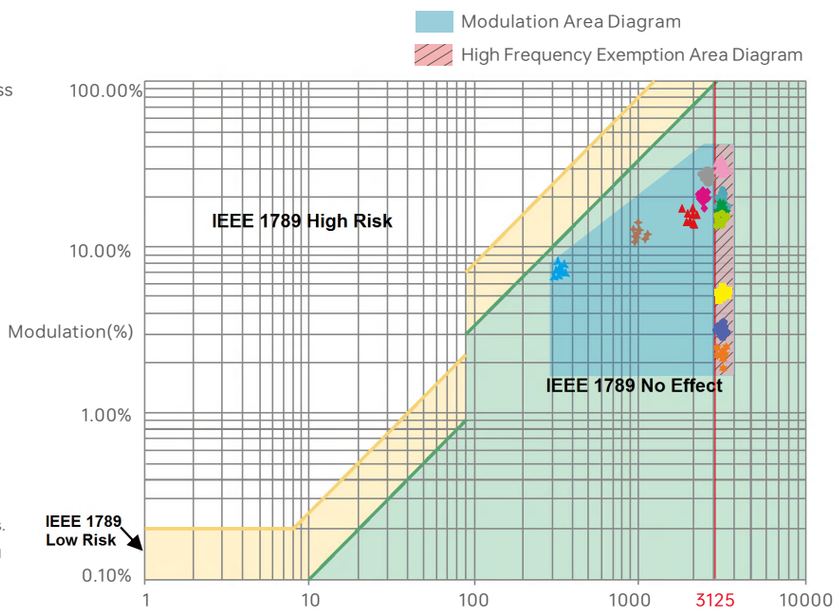
## Flicker Test Sheet

IEEE 1789

| Limit of modulation in low risk area | |
|---|---|
| Waveform frequency of optical output | limit (%) |
| $f \leq 8Hz$ | 0.2 |
| $8Hz < f \leq 90Hz$ | $0.025 \times f$ |
| $90Hz < f \leq 1250Hz$ | $0.08 \times f$ |
| $f > 1250Hz$ | Exemption assessment |
| **Limit of modulation in no effect area** | |
| Waveform frequency of optical output | limit (%) |
| $f \leq 10Hz$ | 0.1 |
| $10Hz < f \leq 90Hz$ | $0.01 \times f$ |
| $90Hz < f \leq 3125Hz$ | $(0.08/2.5) \times f$ |
| $f > 3125Hz$ | Exemption assessment (High frequency exemption) |

Brightness

- 0.1%
- 1%
- 5%
- 10%
- 20%
- 30%
- 40%
- 50%
- 60%
- 70%
- 80%
- 90%
- 100%

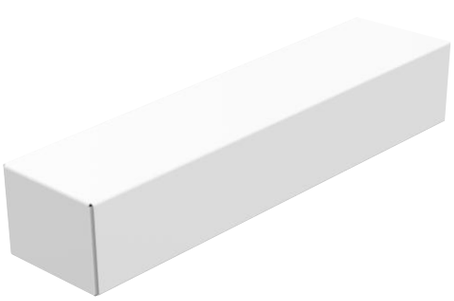



Marks in the right chart were tested results of different current ranges.
The output frequeny is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

## Packaging Specification

| | |
|---|---|
| Model | LF-40-300-1050-G1D2 |
| Packaging box size | 325×255×140mm(L×W×H) |

## Packaging Style Drawing



Inner packaging box


Full box packaging

## Transportation and Storage

1. Transportation

Products can be shipped via vehicles, boats and planes.

During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process.

2. Storage

The storage conditions should comply with the Class I Environmental Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified.

## Attentions

- Product installation and commissioning should be done by a qualified professional.
- LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
- Good heat dissipation will prolong the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

✻ 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 Conten | Updated by |
|---|---|---|---|
| A0 | 20251111 | Original version | Haipeng Li |

LTSYS

LF-40-300-1050-G1D2

DALI-2 DT6
PUSH DIM

# 办公线性智能调光电源（恒流型）

- 轻薄型金属外壳；
- 整体设计符合Zhaga标准，内置式符合 Zhaga 标准 Book 13和 Book 24 的规范要求，独立式符合 Zhaga 标准 Book 24 的规范要求；
- 支持DALI-2 DT6，PUSH DIM，走廊灯调光；
- 支持全指令NFC极速编程，可使用手机APP通过NFC更改输出电流、DALI地址等参数，实现驱动器数据交互功能；
- 支持L-Data功能，通过DALI主控可以获取DALI Part251(灯具数据查询功能)，Part 252(能源报告读取)，Part 253(诊断与维护数据读取)，为智能管理平台提供强大数据支撑；
- NFC设置电流步进值低至1mA，兼容性更高更精细；
- T-PWM 超深度调光技术，调光深度可达0.01%；
- 0-100%全程调光无可视频闪, 高频豁免考核级别；
- 带软启动渐亮功能，让人眼视觉更舒服；
- 支持CLO光衰补偿功能，保障恒久照明亮度；
- 支持EL应急灯，直流应急状态默认调整电流到15%；
- 支持有线升级设备固件；
- 欧盟ERP空载功耗、网络待机功耗 < 0.5W；
- 空载0V输出，防止接触不良损坏LED灯具；
- 过温、过压、过载、短路保护，可自动恢复；
- 适合室内Ⅰ、Ⅱ、Ⅲ类灯具，如：线条灯，三防灯，落地灯，支架灯等线条型或超薄型灯具；
- 常规使用下寿命可达10万小时；
- 5年质保期；

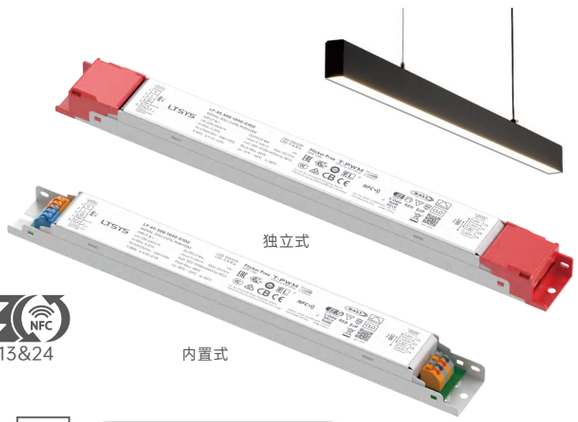
DALI 2

调光

T-PWM
超深度调光技术

无频闪
IEEE1789
高频豁免考核级别

NFC
Book 13&24




Dimmable:
1:10000

CLO

corridor DIM

EL

L-Data 251/252/253

SELV
RoHS

ErP

认证图标仅代表产品正在进行这一系列的认证申请，认证资质以产品实物为准。

NFC 多电流设置

过温保护

过压保护

过载保护

恒功率设计

短路保护

## 技术参数

| 型号 | | LF-40-300-1050-G2D2 (带端盖-独立式) | | | LF-40-300-1050-G2D2 (不带端盖-内置式) |
|---|---|---|---|---|---|
| 特征 | 输出类型 | 恒流 | | | |
| | 调光接口 | DALI-2 DT6, DALI Part 251/252/253, PUSH DIM | | | |
| | 输出特征 | 隔离 | | | |
| | Zhaga标准 | Book 24 | | | Book 13,24 |
| | 安装方式 | 可以独立安装于天花或灯槽内等 | | | 安装于灯具内部 |
| | 其它功能 | EL 应急灯、光衰补偿、走廊灯应用 | | | |
| | 防护等级 | IP20 | | | |
| | 绝缘等级 | II类(适用于室内Ⅰ、 Ⅱ、Ⅲ类灯具) | | | |
| 输出 | 输出电压 | 9-54V⎓ | | | |
| | 最大输出电压(空载) | ≤59.5V⎓ | | | |
| | 工作电流范围 | 300-1050mA (通过手机APP NFC设置更多电流，步进值低至1mA；默认: 300mA) | | | |
| | 负载功率范围 | 2.7-40W | | | |
| | 调光范围 | 0~100%，调光深度:0.01% | | | |
| | 电流纹波 | < 5%（输出最大电流非调光状态） | | | |
| | 电流精度 | ±5% | | | |
| | PWM调光频率 | ≤3600Hz | | | |
| 输入 | 交流电压范围 | 220-240V～ | | | |
| | 直流电压范围 | 220-240V⎓ | | | |
| | 额定电压 | 230V～ | | | |
| | 频率范围 | 0/50/60Hz | | | |
| | 输入电流 | ≤0.22A/230V～ | | | |
| | 功率因数 | PF > 0.9/230V～(满载) | | | |
| | 总谐波失真THD | 230V～@THD<10% (满载) | | | |
| | 效率(Typ.) | 88% | | | |
| | 浪涌电流 | 冷启动20A(在50%Ipeak下测twidth=137us)@230V～ | | | |
| | 抗浪涌 | L-N: 2KV L-FG/N-FG: 4KV | | | |
| | 漏电流 | Max.0.5mA | | | |
| 环境 | 工作温度 | ta:-20℃~50℃ tc:80℃ | | | |
| | 工作湿度 | 20~95%RH，无冷凝 | | | |
| | 储存温度/湿度 | -40~80℃/10~95%RH | | | |
| | 温度系数 | ±0.03%/℃(-20℃~50℃) | | | |
| | 耐振动 | 10-500HZ，2G 12分钟/周期，X,Y,Z轴各72分钟 | | | |
| 保护 | 过载保护 | 负载超过额定功率≥1.02倍时自动保护，减轻负载自动恢复 | | | |
| | 过温保护 | 根据PCB温度超标情况(≥110℃)，智能调节电流输出或关闭，可自动恢复；PCB温度 < 90℃时，可自动恢复正常输出 | | | |
| | 过压保护 | 超过空载电压值进入保护，可自行恢复 | | | |
| | 短路保护 | 输出线路短路进入打嗝模式，可自动恢复 | | | |
| 安规和电磁规格 | 耐压 | 输入对输出：3750V～/1min/ < 5mA，输入对地(FG)：1750V～/1min/ < 5mA，输出对地(FG)：500V～/1min/ < 5mA，信号对地(FG)：500V～/1min/ < 5mA ① | | | |
| | 绝缘阻抗 | 输入对输出：100MΩ/500V～/1min/25℃/70%RH | | | |
| | 安全规范 | CCC | 中国 | GB19510.1，GB19510.14，GB19510.213 | |
| | | TUV | 德国 | EN61347-1，EN61347-2-13，EN62493 | |
| | | CB | CB成员国 | IEC61347-1，IEC61347-2-13 | |
| | | CE | 欧盟 | EN61347-1，EN61347-2-13，EN62384 | |
| | | EAC | 俄罗斯 | IEC61347-1，IEC61347-2-13 | |
| | | RCM | 澳洲 | AS 61347-1，AS 61347-2-13 | |
| | | ENEC | 欧洲 | EN61347-1，EN61347-2-13，EN62384 | |
| | 电磁兼容发射 | CCC | 中国 | GB/T17743，GB17625.1 | |
| | | CE | 欧盟 | ENIEC55015，ENIEC61000-3-2，EN61000-3-3 | |
| | | EAC | 俄罗斯 | IEC62493，IEC61547，EH55015 | |
| | | RCM | 澳洲 | EN55015，EN61000-3-2，EN61000-3-3，EN61547 | |
| | 电磁兼容抗扰度 | EN61000-4-2,3,4,5,6,8,11,EN61547 | | | |
| ErP | 功耗 | 网络待机功耗 | < 0.5W（通过指令关机后） | | |
| | | 空载功耗 | < 0.5W（不接灯具时） | | |
| | 频闪/频闪效应 | IEEE1789 | 满足无影响/高频豁免考核级别 | | |
| | | CIE SVM | PstLM≤1.0，SVM≤0.4 | | |
| 其他 | 产品重量 | 260g±5g | | | 245g±5g |
| | 产品尺寸 | 305x30.5x21.3mm(LxWxH) | | | 280x30.5x21.3mm(LxWxH) |

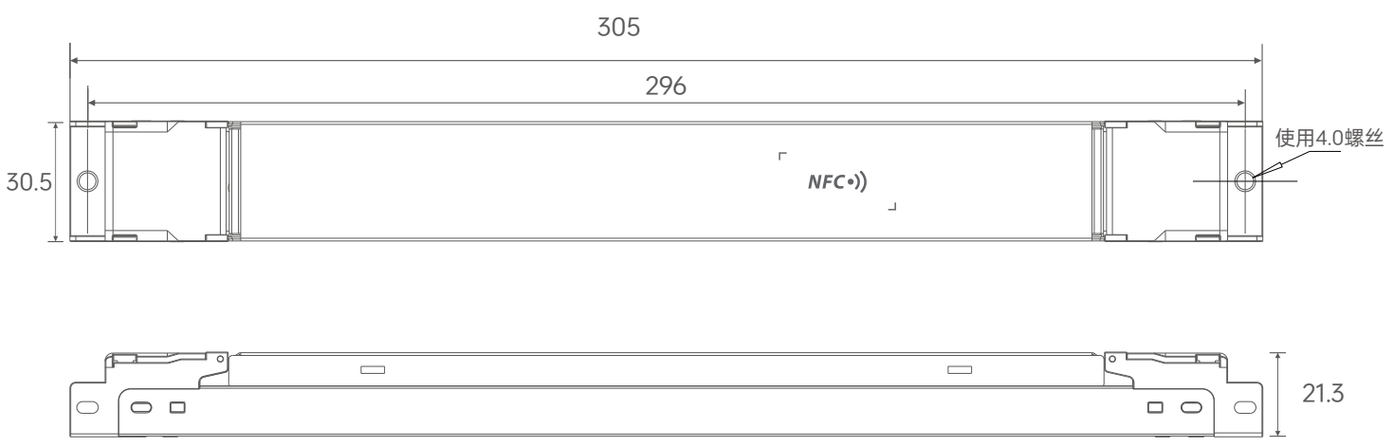
①备注:当输入对地(FG)进行耐压测试时,位于驱动器输入端的气体放电管需要被临时性地移除，以防止驱动器内部的气体放电管功能性动作(参见 IEC 60598-1-10.2)。待测试完成后，必须被重新安装以恢复电力线对地的浪涌保护功能，并且确保可靠性接触。

## 典型电流对应参数表

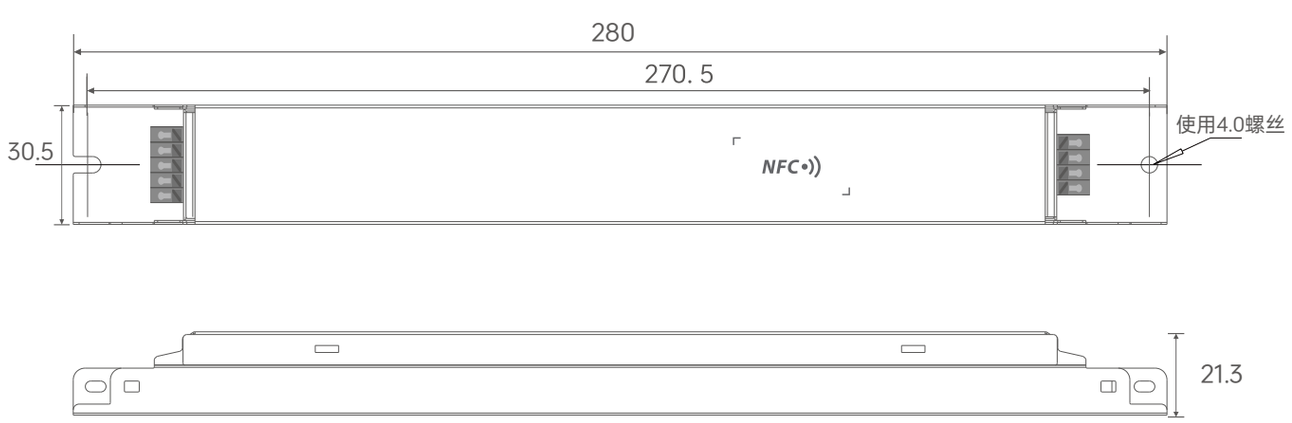
| 下图典型16组电流数据供选型参考，均可通过手机APP NFC设置更多电流，可设置范围在300-1050mA，电流步进值低至1mA | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| LF-40-300-1050-G1D2 | 输出电流 | 300mA | 350mA | 400mA | 450mA | 500mA | 550mA | 600mA | 650mA |
| | 输出电压 | 9-54Vdc | 9-54Vdc | 9-54Vdc | 9-54Vdc | 9-54Vdc | 9-54Vdc | 9-54Vdc | 9-54Vdc |
| | 输出功率 | 2.7-16.2W | 3.15-18.9W | 3.6-21.6W | 4.05-24.3W | 4.5-27W | 4.95-29.7W | 5.4-32.4W | 5.85-35.1W |
| | 输出电流 | 700mA | 750mA | 800mA | 850mA | 900mA | 950mA | 1000mA | 1050mA |
| | 输出电压 | 9-54Vdc | 9-53Vdc | 9-50Vdc | 9-47Vdc | 9-44.5Vdc | 9-42Vdc | 9-40Vdc | 9-40Vdc |
| | 输出功率 | 6.3-37.8W | 6.75-39.75W | 7.2-40W | 7.65-39.95W | 8.1-40.05W | 8.55-39.9W | 9-40W | 9.45-39.9W |

## 尺寸图

单位:mm




带端盖-独立式

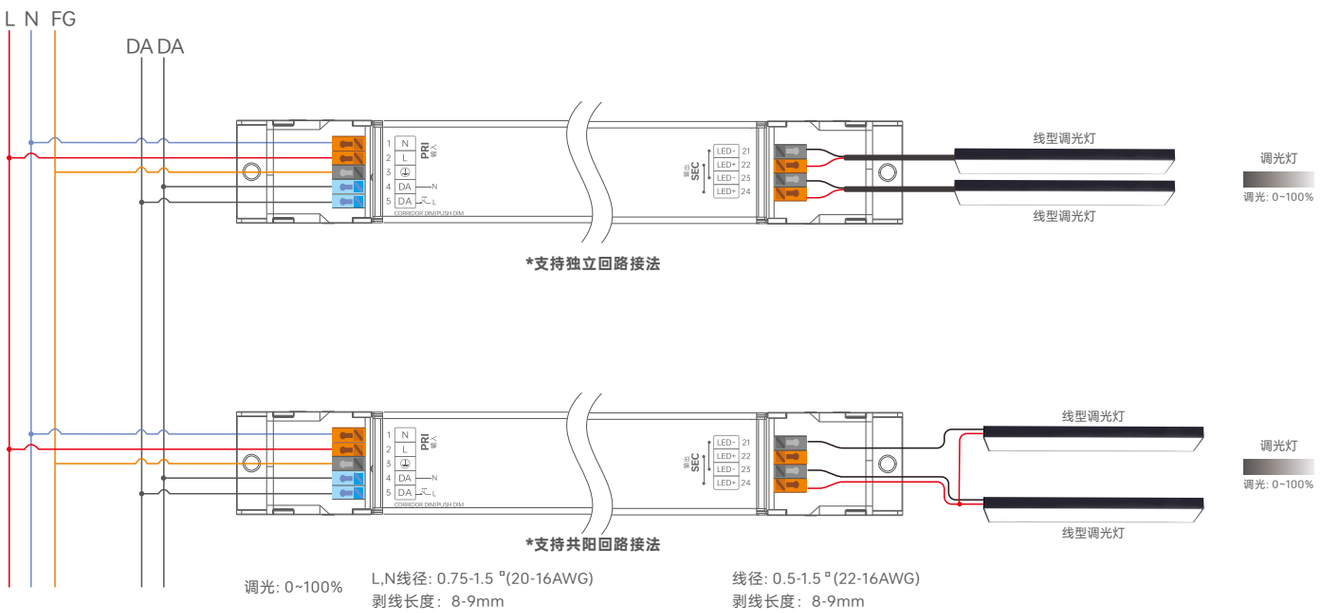



不带端盖-内置式

# 连接应用图

## DALI 连接方式

### 接线图



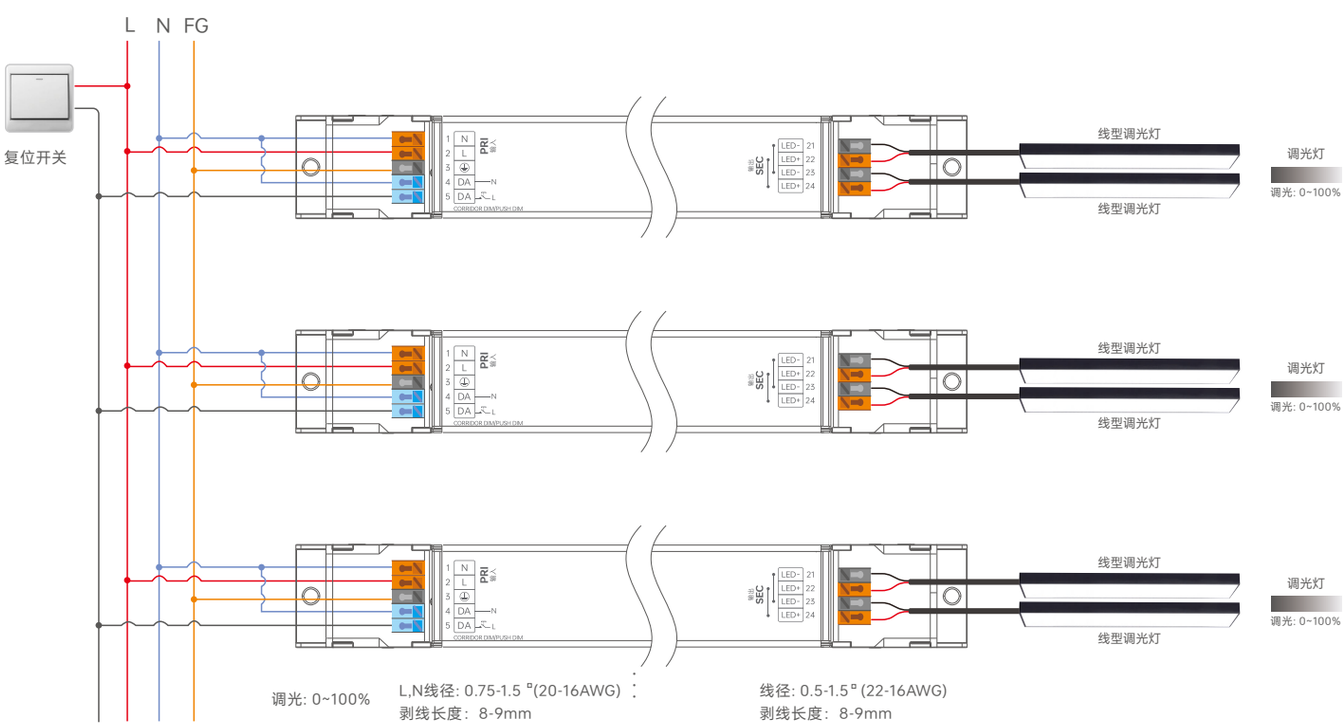

调光: 0~100%　　L,N线径: 0.75-1.5 ㎟(20-16AWG)　　线径: 0.5-1.5 ㎟(22-16AWG)
剥线长度：8-9mm　　剥线长度：8-9mm

⁎ 在直流电压输入的情况下，按键调光无效。
⁎ 调光接口优先级为：首先DALI，然后PUSH DIM。

### 切换至DALI调光模式

按照DALI调光应用的接线图安装好后，驱动器收到任意DALI命令后将自动切换到DALI调光工作模式。

## PUSH DIM 连接方式




调光: 0~100%　　L,N线径: 0.75-1.5 ㎟(20-16AWG)　　线径: 0.5-1.5 ㎟(22-16AWG)
剥线长度：8-9mm　　剥线长度：8-9mm

复位开关

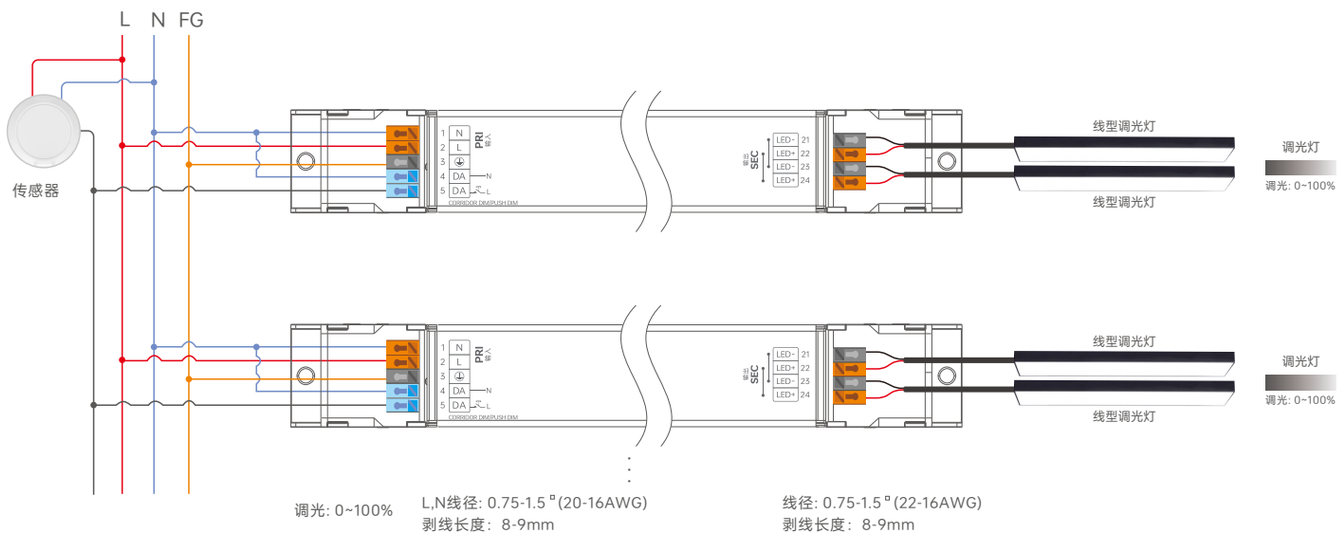
### 操作说明

- 短按: 开关控制。
- 长按: 亮度调节+/-，每隔一次长按，亮度会向相反方向调整。
- 调光记忆: 当再次开关时，灯光会回到先前调整的亮度水平

### 切换至PUSH DIM 模式

方式 1: 若是已切换至走廊灯模式，可以按照PUSH DIM接线图接好线路,复位开关3 秒内短按 5 次，然后长按 6 秒后再 3 秒内短按 5 次，驱动器将会自动切换至PUSH DIM模式。
方式 2: 若是已切换至走廊灯模式，可以通过NFC Lighting app切换成 PUSH DIM 模式。
备注：若是没有接DALI主控，出厂默认是PUSH DIM 模式。

## 走廊灯 连接方式




调光: 0~100%　　L,N线径: 0.75-1.5㎟(20-16AWG)　剥线长度：8-9mm　　线径: 0.75-1.5㎟(22-16AWG)　剥线长度：8-9mm

**切换至走廊灯模式**

方式 1: 通过NFC配置并切换走廊灯功能，PUSH DIM功能关闭。

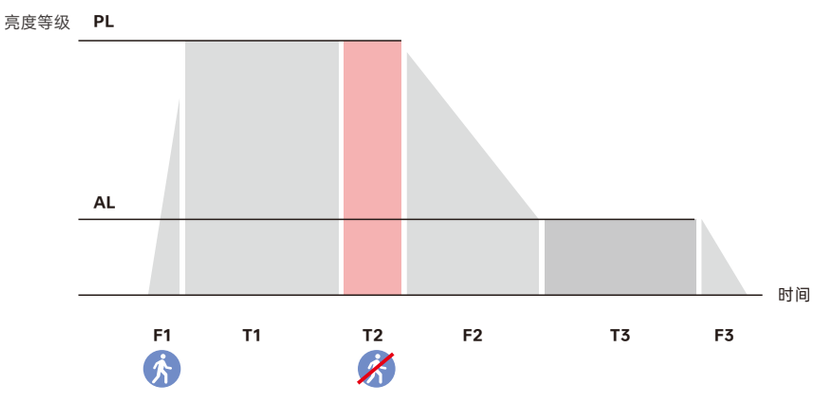
方式 2: 按照走廊调光接线图接好线后，保持有效感应区域内移动并持续2分钟以上，自动切换成走廊调光模式并全亮灯。

方式 3: 按照走廊调光接线图接好线后, 先将传感器更换为普通开关, 然后打开普通开关持续导通2分钟，驱动器将自动切换到走廊调光模式，然后将普通开关移除并更换回传感器。

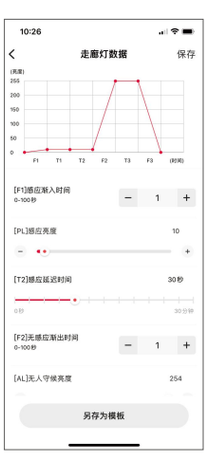
备注: 正常工作时,推荐将移动感应器的维持时间(Hold-time)设置为最小。

需要选用带AC开关的移动感应器。

## 走廊调光 工作过程



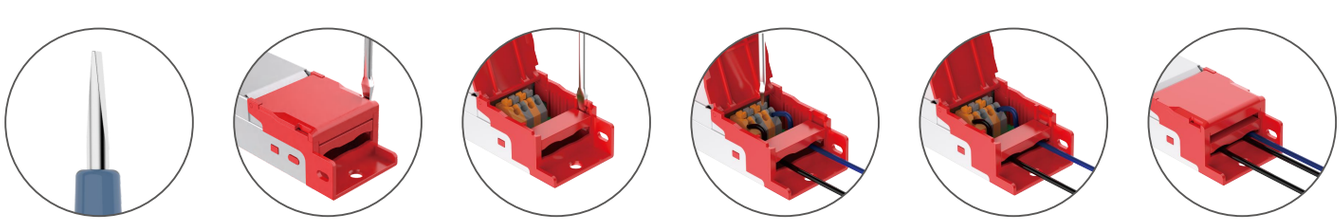

| 名称 | 默认 | 设置范围 |
|---|---|---|
| (F1) 感应渐入时间 | 1 秒 | 0-100 秒 |
| (PL) 感应亮度 | 255 | 0-255 |
| (T1) 感应保持时间 | 通过传感器设置 | |
| (T2) 感应延迟时间 | 30 秒 | 0 秒,5 秒,10 秒,20 秒,30 秒,45 秒,1分钟,<br>2 分钟, 3 分钟,5 分钟,10 分钟,20 分钟,30 分钟 |
| (F2) 无感应渐出时间 | 1 秒 | 0-100 秒 |
| (AL) 无人守候亮度 | 100 | 0-255 |
| (T3) 守候时间 | 30 秒 | 0 秒,5 秒,10 秒,20 秒,30 秒,45 秒,1 分钟,<br>2 分钟,3 分钟,5 分钟,10 分钟,20 分钟,30 分钟,永久 |
| (F3) 渐出到关闭时间 | 1 秒 | 0-100 秒 |




备注：*如灯需要低亮度守候，需要设置[T3]感应守候时间为永久

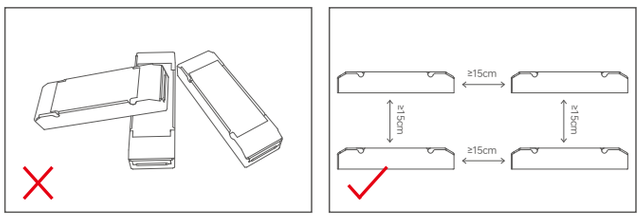
*以上参数由NFC lighting APP 设置

## 保护盖应用图



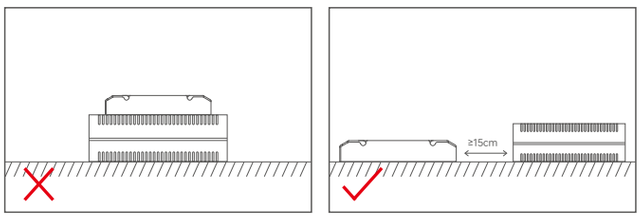
1. 准备0.6mm批头的螺丝批。　2. 在侧板使用螺丝批撬起保护盖。　3. 用螺丝批撬起压线板侧边。　4. 按照接线图所示进行接线。　5. 向下推压线板，可固定线。　6. 合上保护盖即可。

## 安装注意事项

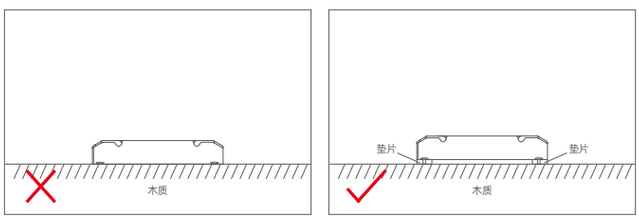



请勿将产品堆叠摆放，产品与产品间隔距离应≥15cm，
避免影响产品散热和使用寿命。

注：安装需符合产品的环境工作温度，切勿安装到灯具内部，
以免超出产品环境工作温度影响产品寿命。




请勿将产品置于电源上方，与电源间隔距离应≥15cm，
避免影响产品散热而减少使用寿命。




请勿将产品螺丝固定紧贴于木板，应在固定螺丝下增加≥7mm的垫片，留点空隙可以有效散热，避免影响产品散热和使用寿命。

## 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。

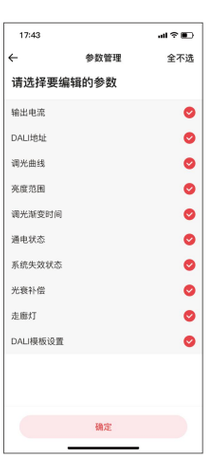

**2. 编辑参数**

点击【参数管理】可编辑输出电流、DALI地址、调光曲线、亮度范围、调光渐变时间、通电状态、系统失效状态、光衰补偿、走廊灯以及DALI模板设置等更多高级参数。

**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群组和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】




## 光衰补偿

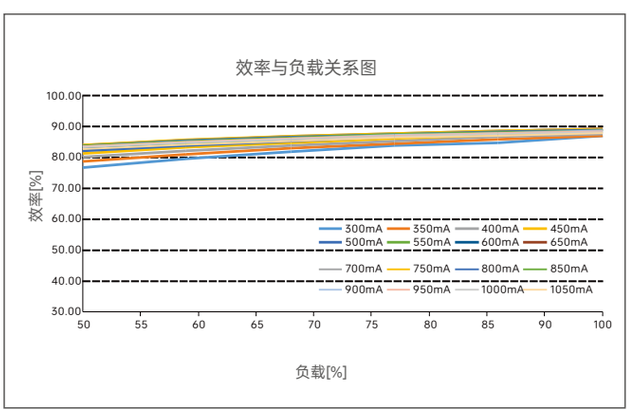
光衰补偿功能主要用于维持LED的恒流明输出。在整个LED的寿命周期内，通过逐渐增加LED的驱动电流，以抵消LED长期工作造成的光衰，从而保证LED恒定的光通量输出。

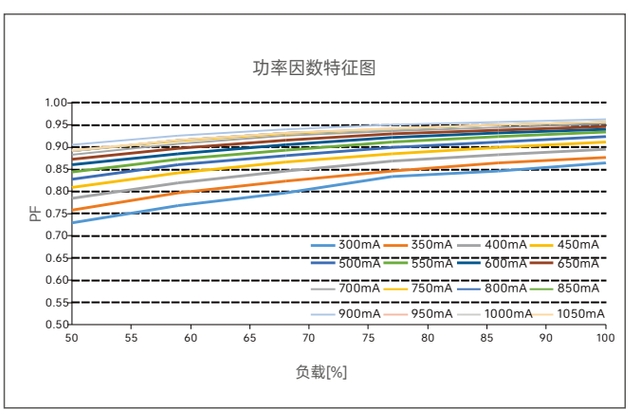

## EL 应急灯

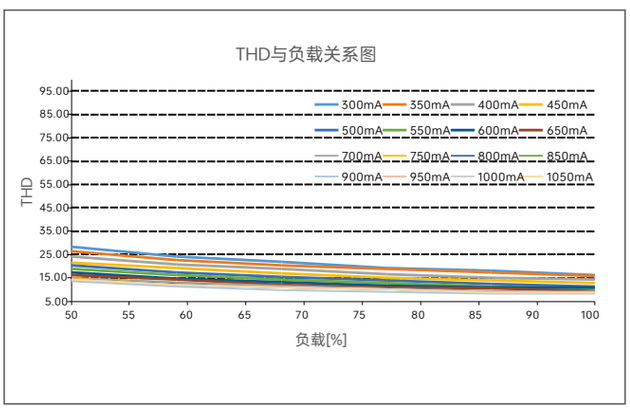
- 电源在直流输入时可以正常工作
- 电源在直流输入时，直流线缆的正极应接入在 L 端子上，直流线缆的负极应接在 N 端子上。
- 可以通过 NFC linghting app 设置输出的电流

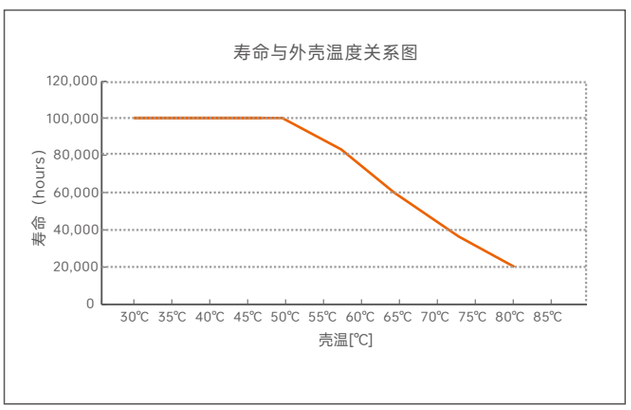


# 关系图表



## 浪涌电流&对应的微型断路器(MCB)下挂载的数量对应表

| 微型断路器型号 | B10 | B13 | B16 | B20 | B25 | C10 | C13 | C16 | C20 | C25 | D10 | D13 | D16 | D20 | D25 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 最大带载数量 | 15 | 19 | 24 | 30 | 40 | 17 | 22 | 27 | 35 | 43 | 20 | 25 | 31 | 39 | 49 |

备注：

1. 本数据测试条件：冷启动20A(在50%Ipeak下测twidth=137us)@230V~；
2. 对于不同品牌和型号的微型断路器，驱动器的数量会有所不同；
3. 现场安装时建议不要超过上述数量，具体负载量以现场安装为准；
4. 当微型断路器的安装环境温度超过30℃或多个微型断路器并排安装时，安装的驱动器数量将减少，这需要重新计算；
5. 电工通常考虑将B型MCB用于家用照明，将C型MCB用于商业照明；
6. 不同仪器设备测试出来的电流峰值和脉冲宽度有差异，请使用专业仪器设备测试；

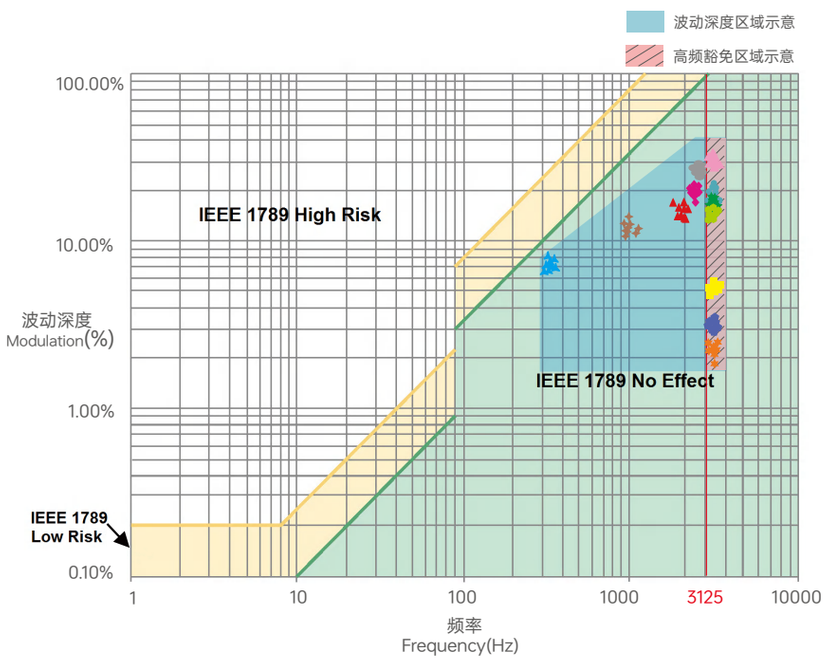
## 频闪测试表

IEEE1789

| 低风险区域（LowRisk)的波动深度（Modulation）限值 | |
|---|---|
| 光输出波形频率 f | 限值（%） |
| f ≤8Hz | 0.2 |
| 8Hz< f ≤90Hz | 0.025× f |
| 90Hz< f ≤1250Hz | 0.08× f |
| f >1250Hz | 免除考核 |
| 无风险区域（NoEffect)的波动深度（Modulation）限值 | |
| 光输出波形频率 f | 限值（%） |
| f ≤10Hz | 0.1 |
| 10Hz< f ≤90Hz | 0.01× f |
| 90Hz< f ≤3125Hz | (0.08/2.5)× f |
| f >3125Hz | 免除考核（高频豁免） |

亮度

0.1%
1%
5%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%



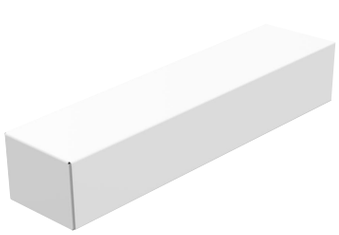

右图标识为不同电流档的测试结果。

100%亮度时输出频率为0Hz，对应波动深度为0%，无法在右图中示意。

## 包装规格

| | |
|---|---|
| 型号 | LF-40-300-1050-G1D2 |
| 包装箱尺寸 | 325×255×140mm(L×W×H) |

## 包装样式图



内包装盒


整箱包装

## 运输和贮存

1.运输

产品适用车、船、飞机交通运输工具运输。

在运输中，应使用遮蓬进行防雨和防晒，并保持文明装卸，不应有剧烈振动、撞击等。

2.贮存

贮存符合I类环境的规定。贮存期限超过6个月的产品建议重新检验，合格后方可使用。

## 注意事项

- 本产品本产品请由具有专业资格的人员进行调试安装；
- 本产品(专有型号除外)不能防水，需避免日晒雨淋。如安装在户外，请使用防水箱；
- 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；
- 安装时，避免靠近大面积金属物体，或堆叠摆放，以免信号干扰影响使用；
- 避免安装在雷区、强磁场和高压区域；
- 请检查使用的工作电压是否符合产品的参数要求；
- 通电调试前，确保所有接线正确且牢固，以免短路损坏部件，触发事故；
- 如果发生故障，请勿私自维修；如果有疑问，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，欢迎向我司授权的经销商咨询。

## 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。

无保修条例:

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、操作不当等行为造成的损坏;
- 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唯一补救措施。雷特不承担任何附带引起的损害赔偿责任,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 | 20250221 | 正稿 | 黎海鹏 |