# Xiaolei

SE-20-50-100-W5B **Bluetooth5.0SIGMesh**

## Intelligent Tunable White LED Driver (Constant Current)

- The housing is made from V0 flame retardant PC materials from SAMSUNG/COVESTRO.
- Ultra-small, thin and light screwless end cap.
- Change the output current, fade time and other parameters on the NFC programmer or via the App, and sync the parameters to the driver.
- Set the output current down to 1mA.0-100% full dimming without video flash, high frequency exemption assessment level
- T-PWM Super depth dimming technology, dimming depth can reach 0.1%
- The whole dimming process is flicker-free with high frequency exemption level.
- Comply with the EU's ErP Directive, networked standby<0.5W.
- When there is no load, the output will be 0V to prevent damage to LEDs due to poor contact.
- Overheat, over voltage, overload, short circuit protection and automatic recovery.
- Suitable for Class Ⅰ / Ⅱ / Ⅲ indoor light fixtures.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor)

Bluetooth®

Color light contro

T-PWM
Dimming Technology

Flicker Free
IEEE 1789

Dimmable:
1：1000

NFC

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

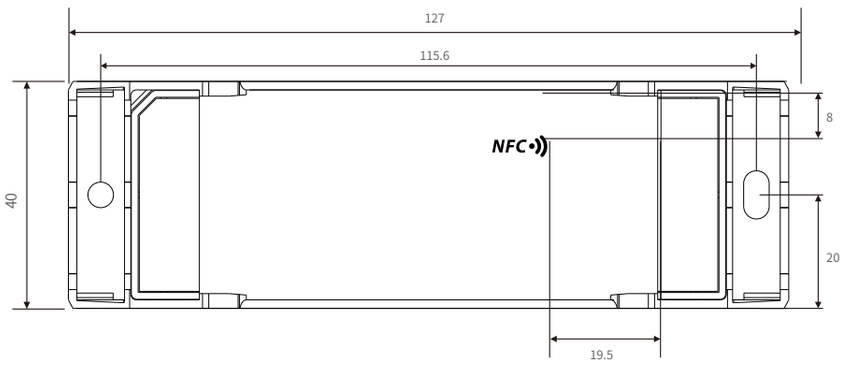
Multi current setting | Constant power setting | Overheat Protection | Over voltage protection | Over Load protection | Short circuit protection

## Technical Specs

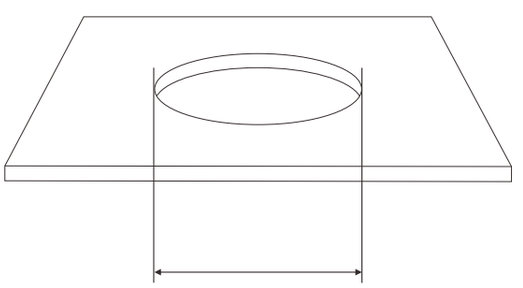
| Model | | SE-20-50-100-W5B | | |
|---|---|---|---|---|
| Features | Output Type | Constant current | | |
| | Dimming Interface | Bluetooth 5.0 SIG Mesh | | |
| | Output Feature | Isolation | | |
| | Protection Grade | IP20 | | |
| | Insulation Grade | Class II (Suitable for class I/ II /III light fixtures) | | |
| OUTPUT | Output Voltage | 9-42Vdc | | |
| | Maximum output voltage | ≤50Vdc | | |
| | Output Current Range | 50-100mA （Set this parameter using the NFC APP） | | |
| | Output Power Range | 0.45W-21W | | |
| | Dimming Range | 0.1~100%, down to 0.1% | | |
| | LF Current Ripple | <5%(Maximum current for non dimming state) | | |
| | Current Accuracy | ±5% | | |
| | PWM Frequency | ≤3600Hz | | |
| INPUT | DC Voltage Range | 100-240Vdc | | |
| | AC Voltage Range | 100-240Vac | | |
| | DC current range | EoF¡=98% | | |
| | Input Voltage | 115Vac/230Vac | | |
| | Frequency | 0/50/60Hz | | |
| | Input Current | ≤0.25A/115Vac, ≤0.13A/230Vac | | |
| | Power Factor | PF>0.95/115Vac (at full load), PF>0.9C/230Vac (at full load) | | |
| | THD | THD≤10%/230Vac, at full load | | |
| | Efficiency (Typ.) | 85%(at full load) | | |
| | Inrush Current | Cold start 15A(Test twidth=102us tested under 50% Ipeak)/230Vac | | |
| | Anti Surge | L-N: 2KV | | |
| | Leakage Current | Max. 0.24mA | | |
| ENVIRONMENT | Working Temperature | ta: -20 ~ 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(-20-50°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 | The temperature returns to normal and the abnormality is eliminated. | | |
| | Overvoltage Protection | Automatically protect the device when voltage exceeds the no-load voltage. | | |
| | Short Circuit Protection | Enter hiccup mode if short circuit occurs, and recover automatically. | | |
| SAFETY & EMC | Withstand Voltage | I/P-O/P: 3750Vac≦5mA/60S | | |
| | Insulation Resistance | I/P-O/P: 100MΩ/500VDC/25°C/70%RH | | |
| | Safety Standards | CCC | China | GB19510.1, GB19510.14 |
| | | 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 |
| | | KC | Korea | KC61347-1, KC61347-2-13 |
| | | EAC | Russia | IEC61347-1, IEC61347-2-13 |
| | | RCM | Australia | AS 61347-1, AS 61347-2-13 |
| | | ENEC | Europe | EN61347-1, EN61347-2-13, EN62384 |
| | | UKCA | Britain | BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 |
| | | BIS | India | IS 15885 (PART 2/SEC 13) |
| | | CUL | Canada | CSA C22.2 NO.250.13 |
| | | UL | America | UL 8750 |
| | EMC Emission | CCC | China | GB/T17743, GB17625.1 |
| | | CE | European Union | EN55015, EN61000-3-2, EN61000-3-3, EN61547 |
| | | KC | Korea | KSC 9815, KSC 9547 |
| | | EAC | Russia | IEC62493, IEC61547, EH55015 |
| | | RCM | Australia | EN55015, EN61000-3-2, EN61000-3-3, EN61547 |
| | | UKCA | Britain | BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 |
| | | CUL | Canada | ICES-005 |
| | | UL | America | FCC PART 15B |
| | 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 | IEEE 1789 | | Meet IEEE 1789 standard/High frequency exemption level |
| | | CIE SVM | | Pst LM≤1.0，SVM≤0.4 |
| | DF | Phase factor | | DF≥0.9 |
| OTHERS | Weight(N.W.) | 100g±10g | | |
| | Dimensions | 127×40×23mm(L×W×H) | | |

## Product Size

Unit：mm



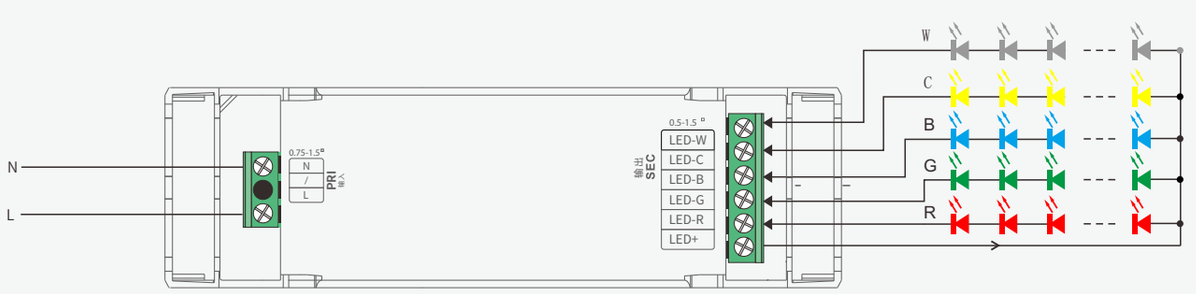




Minimum hole size: φ48mm (1,89")

## Wiring Diagram

### RGBCW connection mode

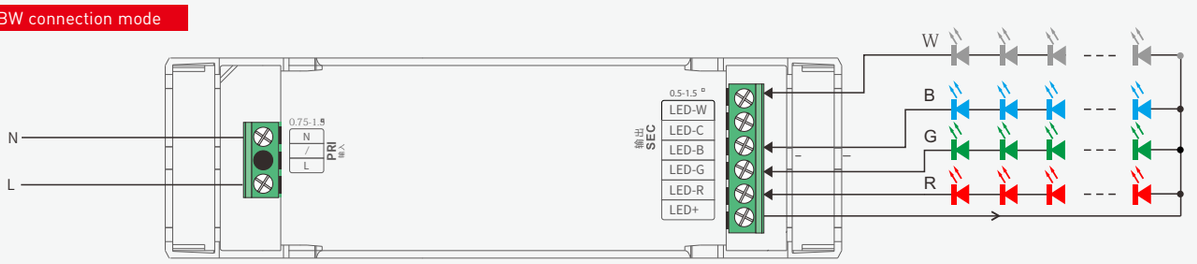



Wire diameter: 0.75-1.5²(20-16AWG)
Strip length: 5-6mm

Wire diameter: 0.5-1.5²(22-16AWG)
Strip length: 5-6mm

★ Access the network to control through App and Bluetooth

### RGBW connection mode

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Strip length: 5-6mm

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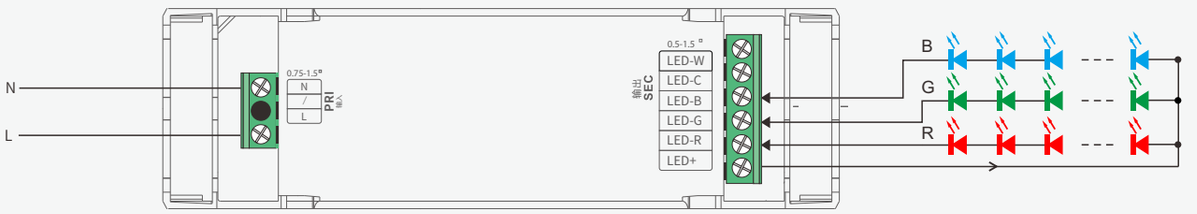
## RGB connection mode

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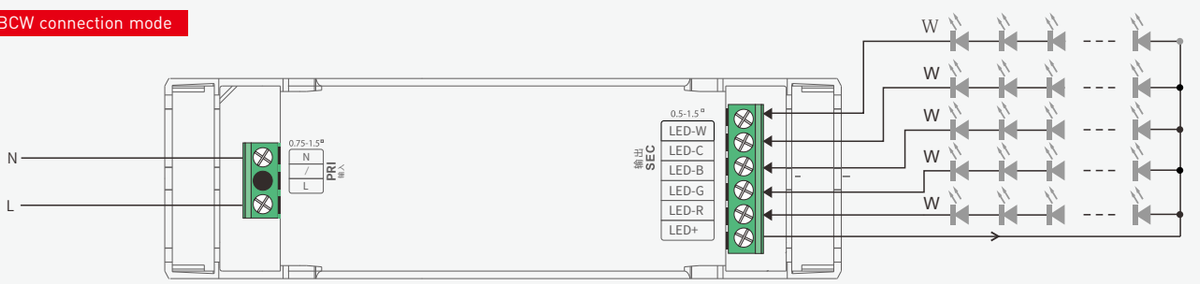
## RGBCW connection mode

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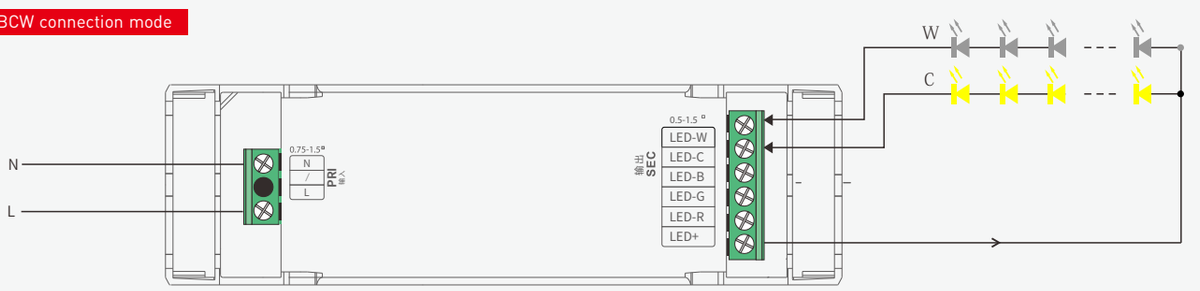
## RGBCW connection mode

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Strip length: 5-6mm

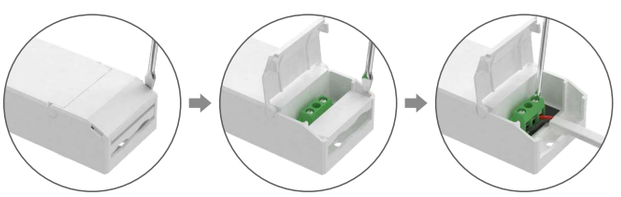
Wire diameter: 0.5-1.5²(22-16AWG)
Strip length: 5-6mm

★ Access the network to control through App and Bluetooth

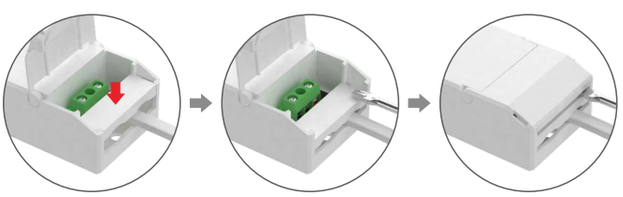
## Table of Typical Corresponding Parameters for Current

| The typical 4 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 50-100mA adjustable in 1mA step | | | | |
|---|---|---|---|---|
| **Output Current** | **50mA(1 Channel)** | **100mA(1 Channel)** | **50mA(5 Channels)** | **100mA(5 Channels)** |
| **Output Voltage** | 9-42Vdc | 9-42Vdc | 9-42Vdc | 9-42Vdc |
| **Output Power** | 0.45-2.1W | 0.9-4.2W | 2.25-10.5W | 4.5-21W |

## Installation procedure

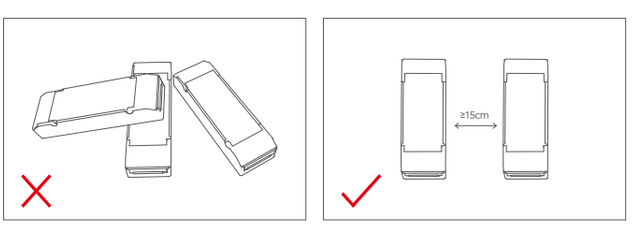


1. Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.

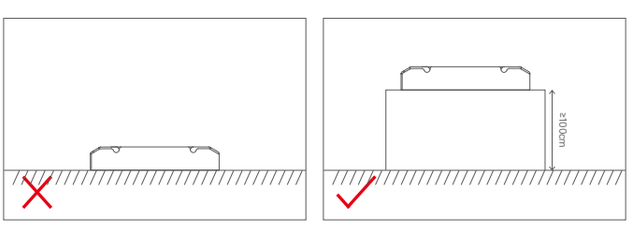


2. Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

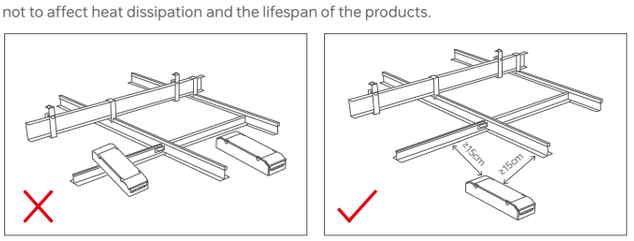
## Installation Precautions



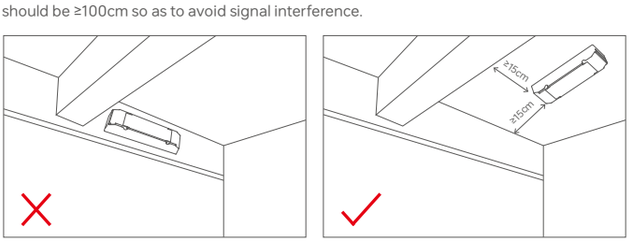

Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.



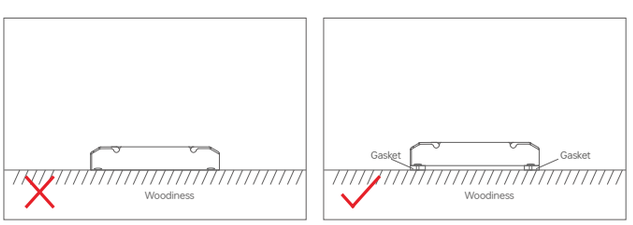

Please do not place the products on the floor. The distance between the product and the floor should be ≥100cm so as to avoid signal interference.




Please do not place the products near a large area of metal objects (such as metal stud ceilings). The distance between the product and the metal object should be ≥15cm so as to avoid signal interference.




Please do not install the products on beams or near the corners. The distance between the product and the beam or the corner should be ≥15cm so as to avoid signal interference.




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).

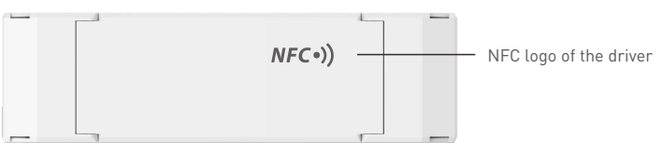
✱ **Before you begin setting the parameters of the driver on the NFC programmer or via the APP, please make sure the driver is powered off.**

## Read/Write the LED driver

Use your NFC-capable phone to read the driver parameters, then set the output current, fade time, power-on status, other parameters. Save your settings and hold your phone close to the driver again, so the parameters can be easily 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.

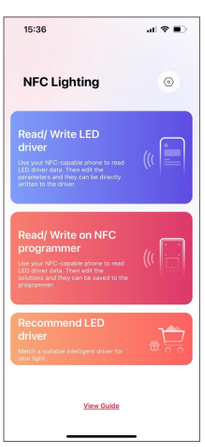



**2. Edit the parameters**

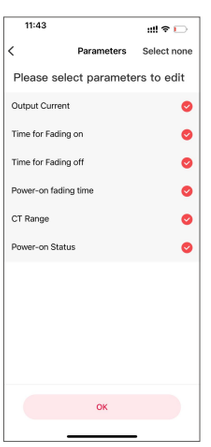
Click【Parameter settings】to edit the advanced parameters, like output current, time for fading on/off, power-on fading time, power-on status, etc.

**3. Write to the driver**

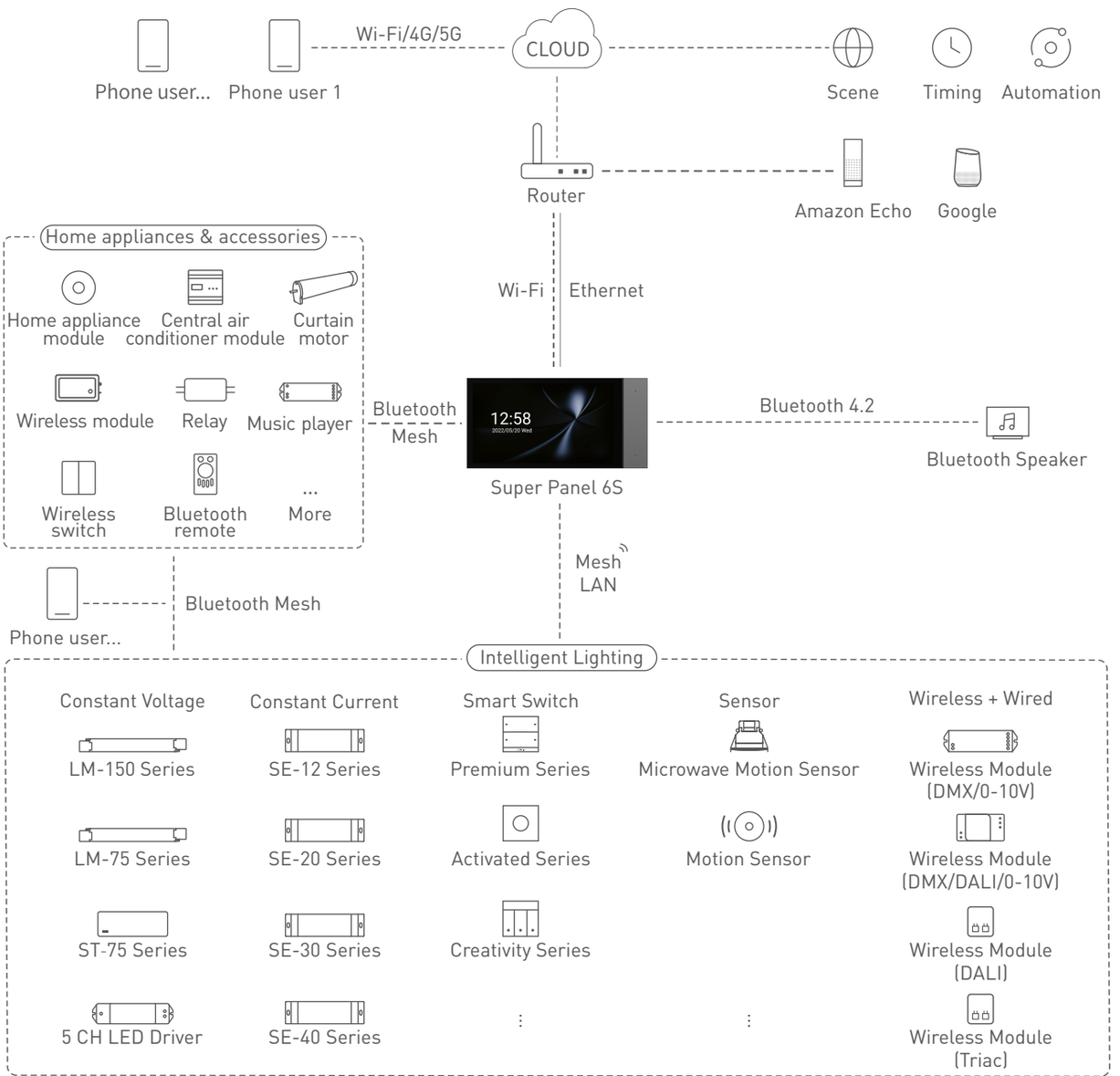
After completing the parameter settings, click 【Write】 in the upper right corner, and keep the programmer's sensing area close to the NFC logo of the driver, so the parameters can be written to the driver.





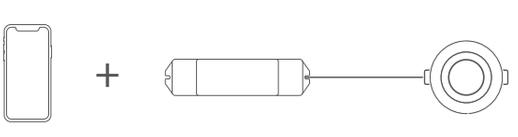



## Bluetooth System Diagram




## Recommend Applications

1. Achieve fast dimming control.




2. Both App and remote can control the driver after connecting the remote to the driver with App.


3. Both App and Super Panel 6S can control the driver simultaneously after connecting the Super Panel 6S to the driver with App. By connecting the Super Panel to network, you are allowed to control the driver, cloud scenes and automation remotely with App.


4. .....More applications of intelligent control are waiting for you to set up.

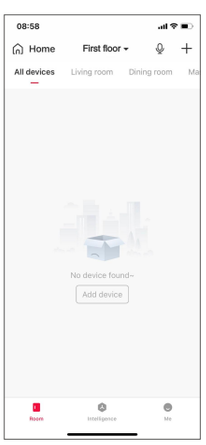
## Use with Bluetooth L-Home APP

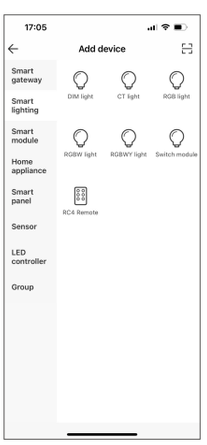
1. Register an account

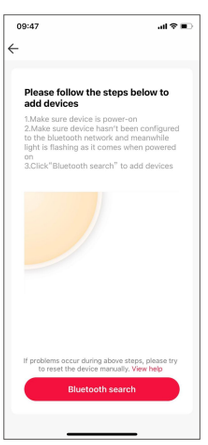
The App is available on iOS or Android devices. Scan the QR code below with you mobile phone and follow the prompts to complete the App installation. Open the App to log in or register an account.

2. Paring instructions

Open the APP and create a home if you are a new user. Click "+" icon in the upper right corner and access the "Add Device" list, then follow the prompts to add the device. Pick "Smart lighting-RGBCW light" from the list and follow the prompts to power on the device firstly. Make sure the device is not connected to the network. Then click "Bluetooth Search" and follow the prompts to add the device.

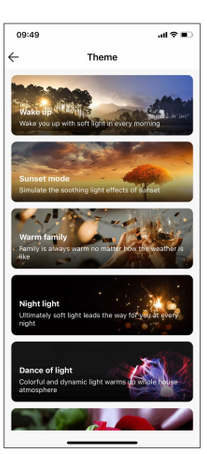


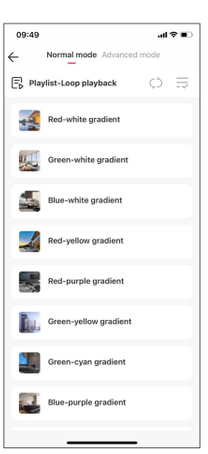




3. Control interface settings

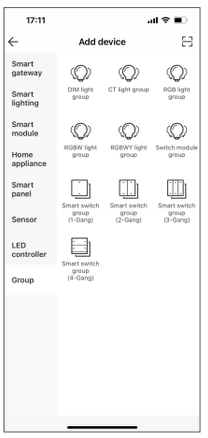
After pairing up your device, go to the control interface. You'll be able to achieve your desired lighting effects by changing brightness and color . Click "Theme" and you'll easily switch to multiple theme lighting effects with one tap. Click "Mode" and the App provides you editable advanced modes. Customize dynamic modes to put you into a more colorful life.

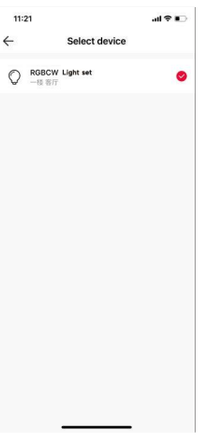



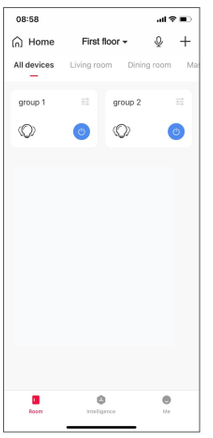



4. Light groups

Users are able to combine the same type of light fixtures into a group to control them simultaneously. Once you create the group, you can set the dim level and adjust the color temperature more easily. Pick "Group-RGBCW light group" from the list . Follow the prompts to rename the group and click "Next" to pick the lights you are going to group together and click "Save".

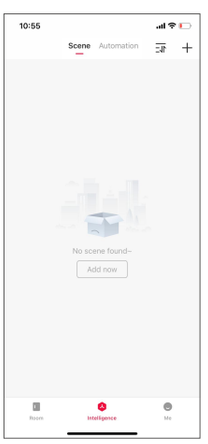


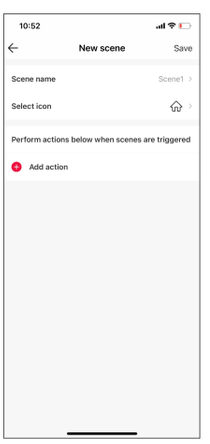



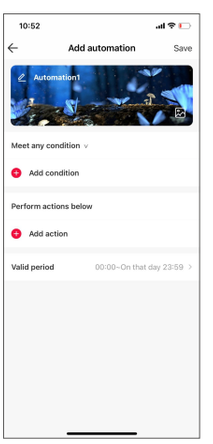




5. Advanced functions

This driver can be linked up with gateway function devices (such as LTECH Super Panel) to achieve the advanced functions from cloud scenes to automation.

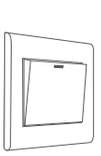



## Reset The Device (Reset to factory defaults)

Make sure the driver is well-connected to a lamp and the lamp is on, turn it off with the switch and after 15s turn it on. After 2s, turn it off again. Repeat the same operation 6 times. When the lamp flashes 5 times , reset the device to factory defaults successfully.



Turn it on 2s

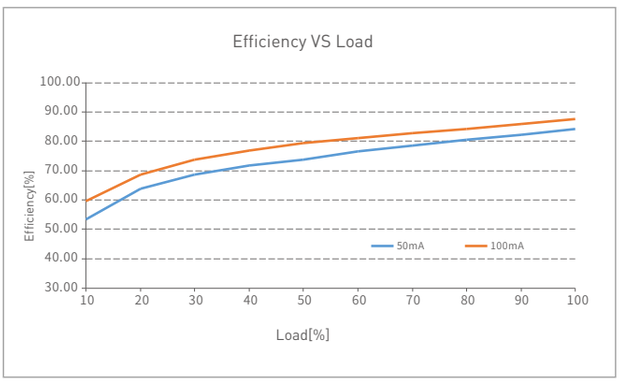
Turn it off 15s

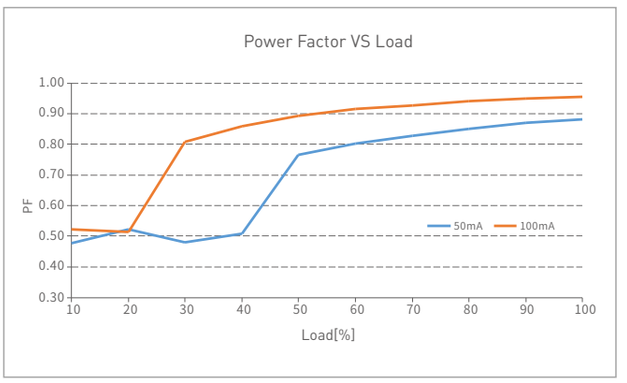
Under the driver being power-on

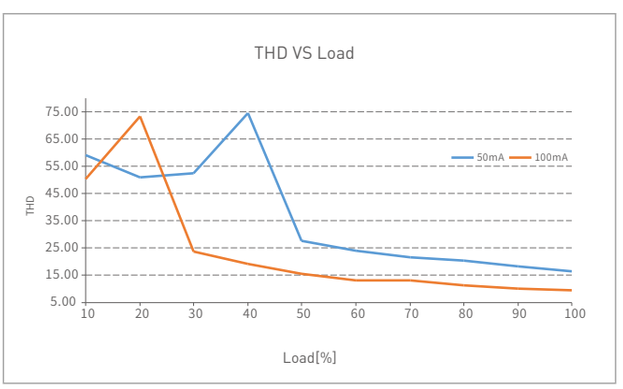
Turn it off —15s— Turn it on —2s— .....

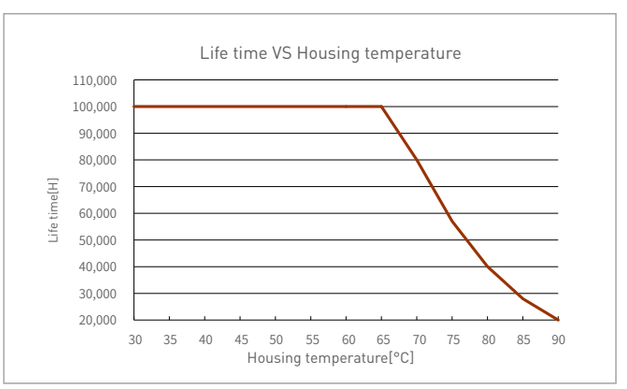
(Repeat 6 times)

## Relationship Diagrams




**SE-20-50-100-W5B**

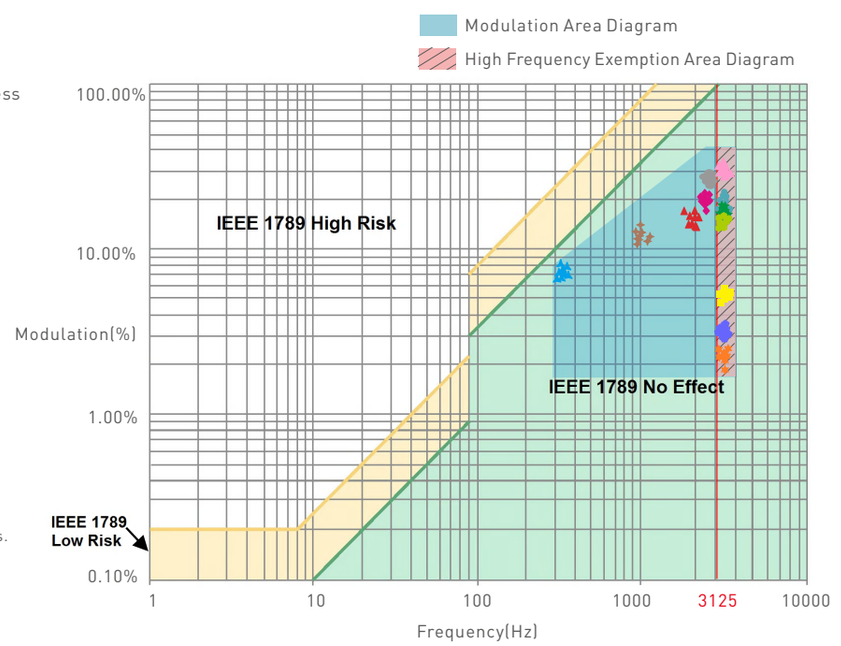
## Flicker Test Sheet

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 Specifications

| | |
|---|---|
| Model | SE-20-50-100-W5B |
| Carton Dimensions | 290×275×106mm(L×W×H) |
| Quantity | 20 PCS/Layer; 2 Layers/Carton; 40 PCS/Carton |
| Weight | 0.11 kg/PC; 52 kg±5%/Carton |

## Packaging Image


Inner Packaging Box


Carton 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

- This product must be installed and adjusted 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 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.

ZHUHAI LTECH TECHNOLOGY CO., LTD.

Add: No. 183, Shui'an 1st Road, Xiangzhou District, 519060 Zhuhai City, PEOPLE'S REPUBLIC OF CHINA Website: www.ltech-led.com

## Update Log

| Version | Updated Time | Update Content | Updated by |
|---|---|---|---|
| A0 | 20240920 | Original version | HaiPeng Li |
| A1 | 2025.11.01 | Replace the logo;Update the laser engraving;Update the company address | Haipeng Li |

Xiaolei

SE-20-50-100-W5B

Bluetooth5.0SIGMesh

# LED智能全彩驱动器(恒流型)

NFC

- 超小体积、轻薄、免螺丝端盖设计
- 外壳采用科思创/三星PC阻燃V0级原料
- 一款电源匹配多类光源：DIM/CCT/RGB/RGBW/RGBCW
- 广色域，广色温，可调光谱算法,RGBCW广色域+1000-20000K广色温
- 多维度精准调节光谱，常规/灰度级/CCT/HSL/xyY
- 精准匹配光源自动生成最优光谱算法,光谱/色点/DUV/校准/饱和度
- 通过NFC手机APP可更改输出电流、通电渐变时间等参数，实现驱动器数据交互功能
- 电流档位步进值设置低至1mA，兼容性更好更精细
- 带软启动渐亮功能，让人眼视觉更舒服
- T-PWM 超深度调光技术，调光深度可达0.1%
- 0-100%全程调光无可视频闪,高频豁免考核级别
- 欧盟ERP空载功耗、网络待机功耗＜0.5W
- 空载保护，防止接触不良损坏LED灯具
- 过温、过载、短路保护，可自动恢复
- 适合室内Ⅰ、Ⅱ、Ⅲ类灯具应用
- 常规使用下寿命可达10万小时
- 5年保修期（采用红宝石电容）

Bluetooth®

RGBCW彩光调节

T-PWM
超深度调光技术

无频闪
IEEE1789
高频豁免考核级别

Dimmable:
1：1000


UKCA CB E497951 FC CE 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。

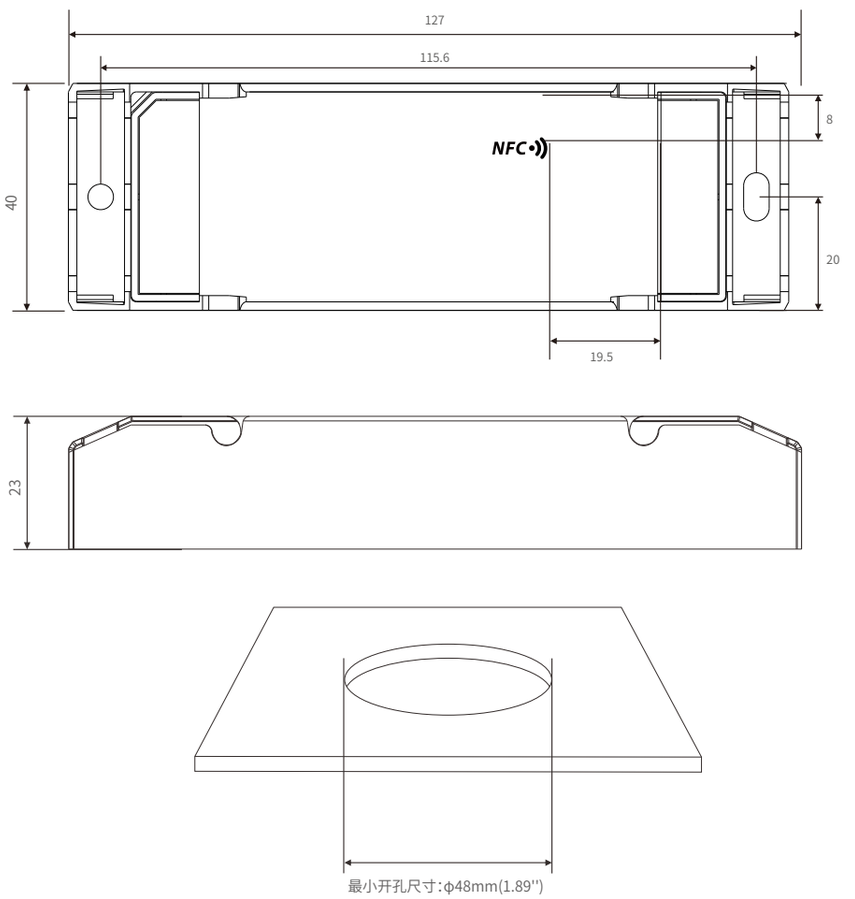
NFC 多电流设置 | 恒功率设计 | 过温保护 | 过压保护 | 过载保护 | 短路保护

## 技术参数

| 型号 | | SE-20-50-100-W5B | | |
|---|---|---|---|---|
| 特征 | 输出类型 | 恒流 | | |
| | 调光接口 | Bluetooth5.0SIGMesh | | |
| | 输出特征 | 隔离 | | |
| | 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 | 9-42Vdc | | |
| | 最大输出电压(空载) | ≤50Vdc | | |
| | 工作电流范围 | 50-100mA（通过NFC APP设置） | | |
| | 负载功率范围 | 0.45W-21W | | |
| | 调光范围 | 0.1~100%，调光深度:0.1% | | |
| | 电流纹波 | <5%(输出最大电流非调光状态) | | |
| | 电流精度 | ±5% | | |
| | PWM频率 | ≤3600Hz | | |
| 输入 | 直流电压范围 | 100-240Vdc | | |
| | 交流电压范围 | 100-240Vac | | |
| | 直流电流范围 | 0.09-0.25A | | |
| | 应急输出系数 | $EoF_i$=98% | | |
| | 额定电压 | 115Vac/230Vac | | |
| | 频率范围 | 0/50/60Hz | | |
| | 输入电流 | ≤0.25A/115Vac,≤0.13A/230Vac | | |
| | 功率因数 | PF>0.95/115Vac(满载),PF>0.9/230Vac(满载) | | |
| | 谐波THD | THD≤10%/230Vac(满载) | | |
| | 效率(Typ.) | 85%（满载） | | |
| | 浪涌电流 | 冷启动,15A(在50%Ipeak下测twidth=102us)/230Vac | | |
| | 抗浪涌 | L-N:2KV | | |
| 环境 | 漏电流 | Max.0.24mA | | |
| | 工作温度 | ta:-20~50°C tc:80°C | | |
| | 工作湿度 | 20~95%RH,无冷凝 | | |
| | 储存温度/湿度 | -40~80°C/10~95%RH | | |
| | 温度系数 | ±0.03%/°C(-20-50°C) | | |
| | 耐振动 | 10-500HZ,2G12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，异常排除自动恢复 | | |
| | 过温保护 | 温度恢复到正常值异常排除 | | |
| | 过压保护 | 超过空载电压值进入保护 | | |
| | 短路保护 | 短路关闭输出，检测正常后自动恢复 | | |
| 安规和电磁规格 | 耐压 | 输入对输出：3750Vac≦5mA/60S | | |
| | 绝缘阻抗 | 输入对输出：100MΩ/500VDC/25°C/70%RH | | |
| | 安全规范 | CCC | 中国 | GB19510.1，GB19510.14 |
| | | 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 |
| | | KC | 韩国 | KC61347-1，KC61347-2-13 |
| | | EAC | 俄罗斯 | IEC61347-1，IEC61347-2-13 |
| | | RCM | 澳洲 | AS 61347-1，AS 61347-2-13 |
| | | ENEC | 欧洲 | EN 61347-1，EN 61347-2-13，EN 62384 |
| | | UKCA | 英国 | BSEN61347-1，BSEN61347-2-13，BSEN62493 |
| | | BIS | 印度 | IS15885(PART2/SEC13) |
| | | CUL | 加拿大 | CSAC22.2No.250.13 |
| | | UL | 美国 | UL8750 |
| | 电磁兼容发射 | CCC | 中国 | GB/T17743，GB17625.1 |
| | | CE | 欧盟 | EN55015，EN61000-3-2，EN61000-3-3，EN61547 |
| | | KC | 韩国 | KSC 9815,KSC 9547 |
| | | EAC | 俄罗斯 | IEC62493，IEC61547，EH55015 |
| | | RCM | 澳洲 | EN55015，EN61000-3-2，EN61000-3-3，EN61547 |
| | | UKCA | 英国 | BS EN IEC 55015，BS EN IEC61000-3-2，BS EN 61000-3-3，BS EN 61547 |
| | | CUL | 加拿大 | ICES-005 |
| | | UL | 美国 | FCC PART 15B |
| | 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（通过指令开关后） |
| | | 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 |
| | | CIESVM | | PstLM≤1.0，SVM≤0.4 |
| | DF | 相位因素 | | DF≥0.9 |
| 其他 | 产品重量 | 100g±10g | | |
| | 产品尺寸 | 127×40×23mm(L×W×H) | | |

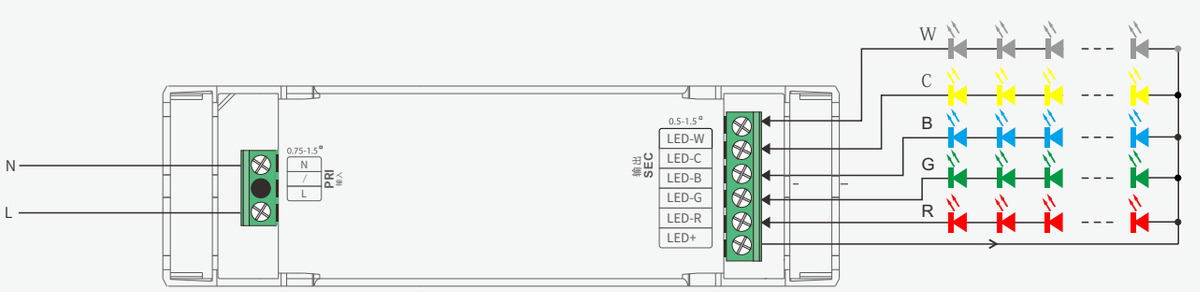
## 尺寸图

单位:mm




## 连接应用图

### RGBCW接线方式

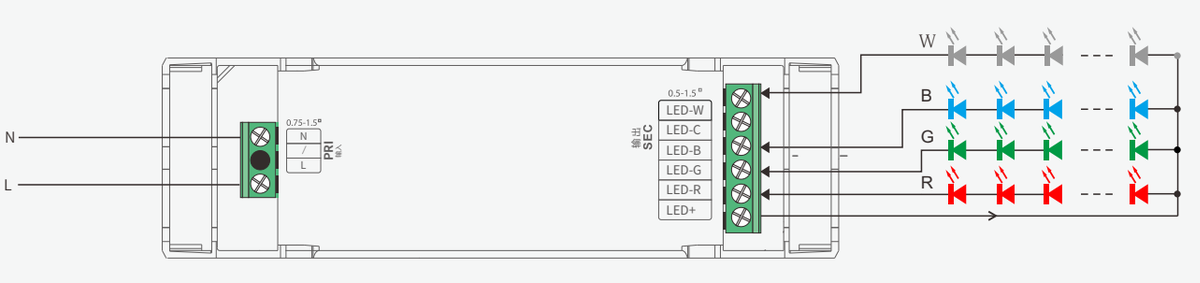



线径:0.75-1.5²(20-16AWG)
剥线长度:5-6mm

线径:0.5-1.5²(22-16AWG)
剥线长度:5-6mm

* 通过APP蓝牙入网控制

### RGBW接线方式

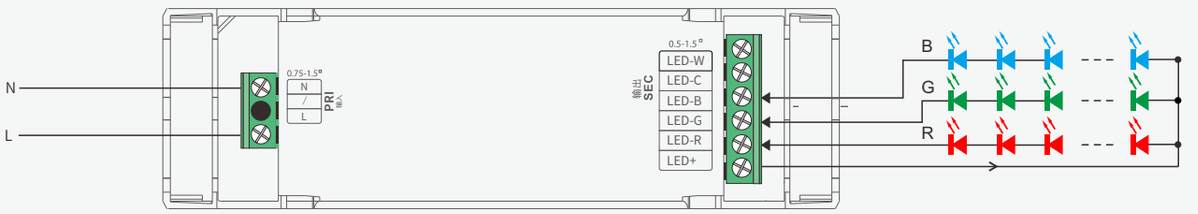



线径:0.75-1.5²(20-16AWG)
剥线长度:5-6mm

线径:0.5-1.5²(22-16AWG)
剥线长度:5-6mm

* 通过APP蓝牙入网控制

## RGB接线方式

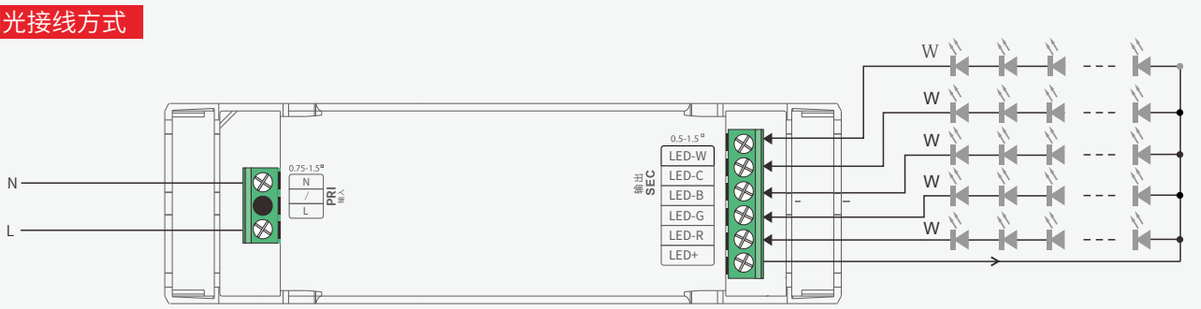



线径:0.75-1.5²(20-16AWG)
剥线长度:5-6mm

线径:0.5-1.5²(22-16AWG)
剥线长度:5-6mm

* 通过APP蓝牙入网控制

## 调光接线方式

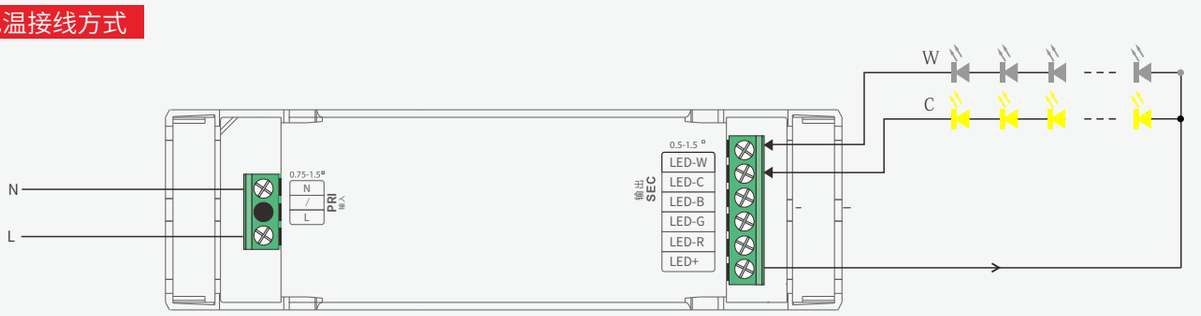



线径:0.75-1.5²(20-16AWG)
剥线长度:5-6mm

线径:0.5-1.5²(22-16AWG)
剥线长度:5-6mm

* 通过APP蓝牙入网控制

## 色温接线方式




线径:0.75-1.5²(20-16AWG)
剥线长度:5-6mm

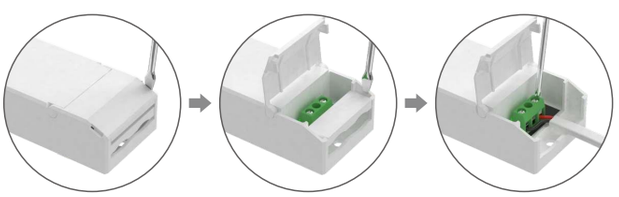
线径:0.5-1.5²(22-16AWG)
剥线长度:5-6mm

* 通过APP蓝牙入网控制

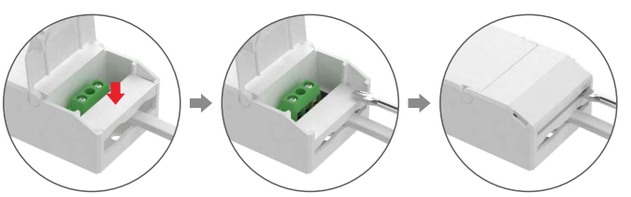
## 典型电流对应参数表

| 下图典型4组电流数据供选型参考，均可通过手机APPNFC设置更多电流，可设置范围在50-100mA，电流步进值低至1mA | | | | |
|---|---|---|---|---|
| **输出电流** | **50mA（单路）** | **100mA（单路）** | **50mA（5路）** | **100mA（5路）** |
| **输出电压** | 9-42Vdc | 9-42Vdc | 9-42Vdc | 9-42Vdc |
| **输出功率** | 0.45-2.1W | 0.9-4.2W | 2.25-10.5W | 4.5-21W |

## 安装步骤

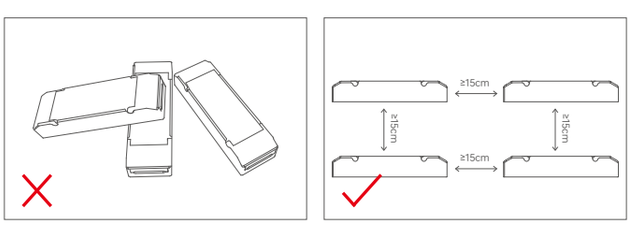


1.在侧板处使用螺丝批撬起保护盖，
并撬起压线板将其拆下后，按照接线图进行接线。

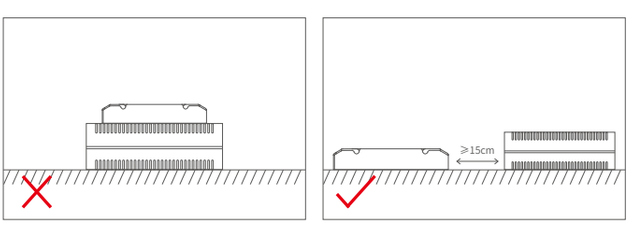


2.装上压线板并向下按压，使用小一字螺丝批按住
压线板的同时，将保护盖向下扣合即可。

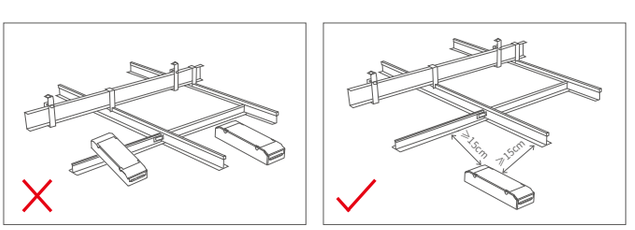
## 安装注意事项



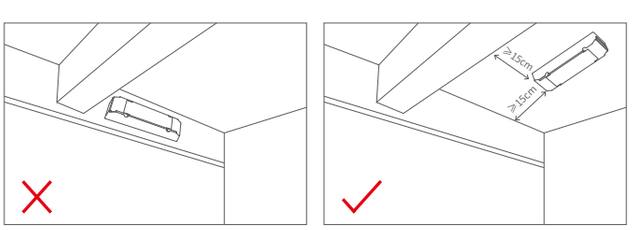

请勿将产品堆叠摆放，产品与产品间隔距离应≥15cm，避免影响产品散热和使用寿命。



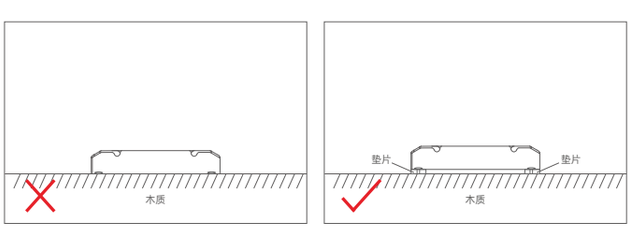

请勿将产品置于电源上方，与电源间隔距离应≥15cm，避免影响产品散热而减少使用寿命。




请勿将产品大面积接触金属物体(如：龙骨架)，间隔距离应≥15cm，以免信号干扰影响使用。




请勿将产品安装在横梁、墙角等位置，间隔距离应≥15cm，以免信号干扰影响使用。




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NFCLightingAPP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：iPhone8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感应区，读取驱动器参数。


**2.编辑参数**

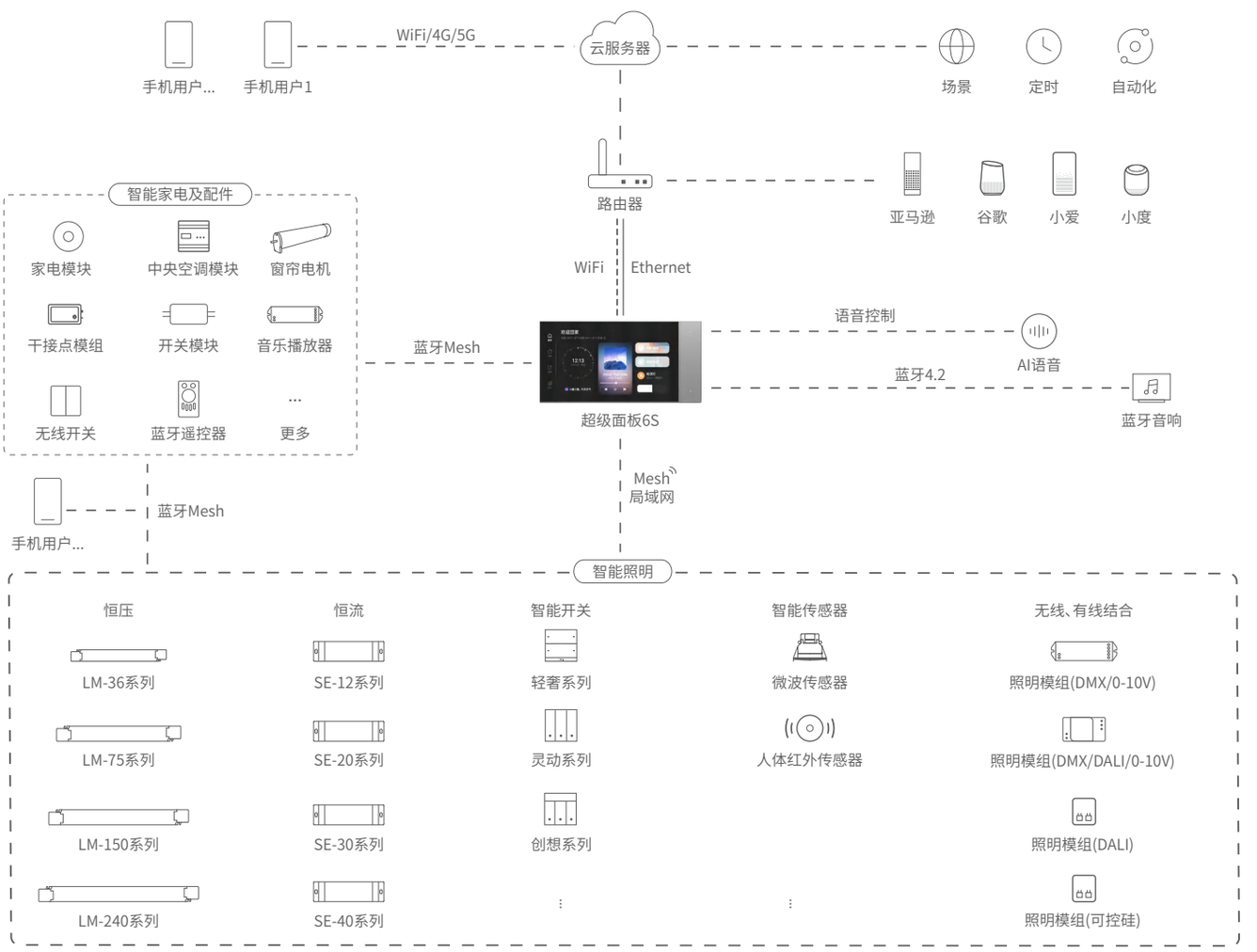
点击【参数管理】可编辑输出电流、开/关渐变时间、通电渐变时间、通电状态等更多高级参数。

**3.写入驱动器**

参数编辑完成后，点击右下角【写入】，将手机感应区域靠近驱动器NFC感应区，即可成功写入驱动器参数。

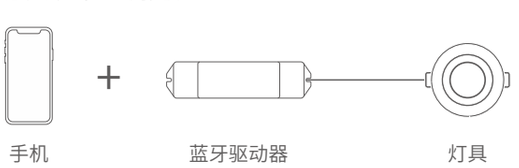



## 蓝牙系统图



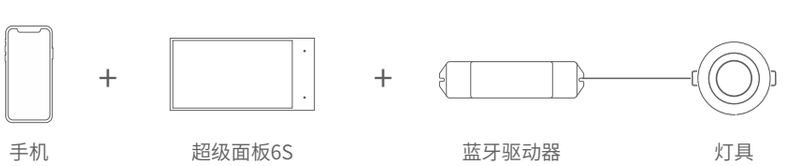

## 推荐应用控制方式

1、快速实现本地调光。




2、通过APP设置遥控关联驱动后，可实现APP与遥控两种控制方式控制驱动。


3、通过APP设置面板关联驱动，可实现APP与面板同时控制。并能够通过面板联网，可实现APP远程控制驱动，云场景，自动化联动功能。




4、.....智能控制，更多应用搭配等您来设置。

## 搭配蓝牙L-HomeAPP使用

### 1.账号注册

APP兼容iOS和Android系统，通过手机扫描下方二维码，按提示完成APP安装,安装后即可进行登录/注册操作。

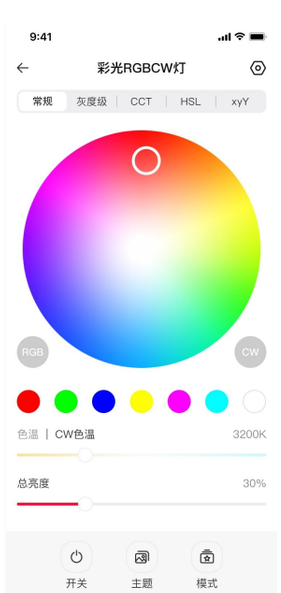
### 2.配对操作

新用户创建家庭后，点击右上角“+”进入添加设备列表，先将驱动器按照提示添加完成后，在添加设备列表选择“智能照明-RGBCW灯”后，按照界面提示，先将设备接通电源，确保设备处于未入网状态。然后点击“蓝牙搜索”后，按照提示完成添加设备。

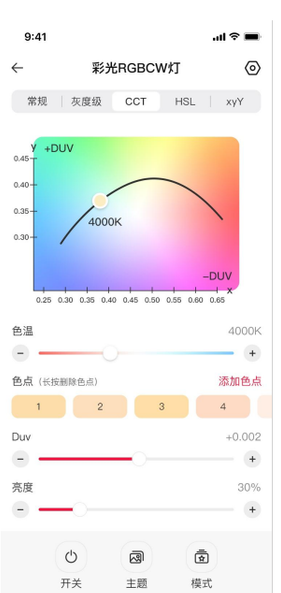



### 3.控制界面设置

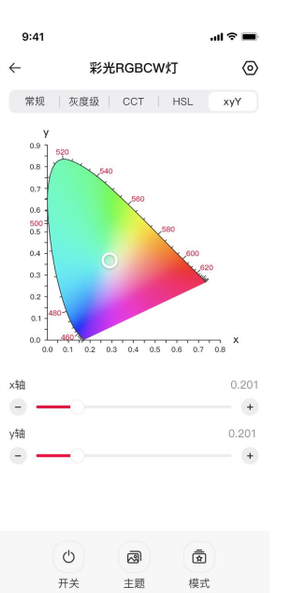
配对完成后，进入控制界面，可以通过普通的常规，灰度级模式去调节灯光效果，也可以通过专业的CCT，HSL，xyY模式去细调节灯光效果。




常规模式



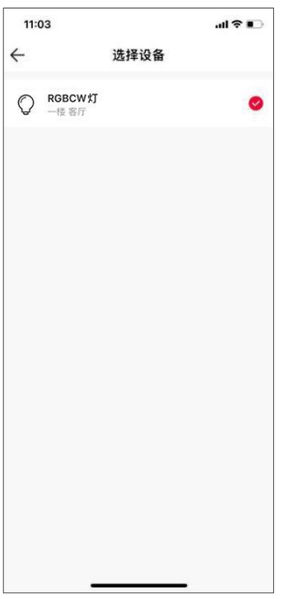

CCT模式

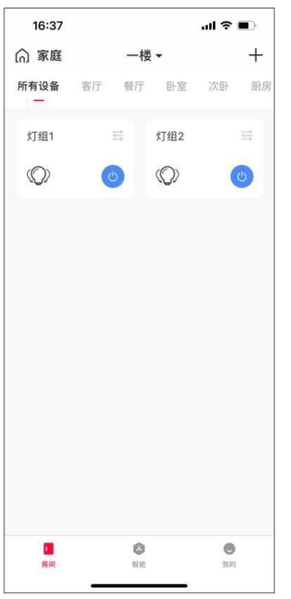



xyY模式

**4.灯具群组**

同类型的灯具可以组成群组，用户可以对群组进行调色、调光等操作，操作更加便利。在添加设备列表中选择“群组—RGBCW灯组”，按照界面提示编辑创建灯组后，点击“下一步”，勾选您要组成群组的设备，保存即可。

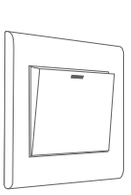

**5.高级功能**

本产品可以通过与具有网关功能的设备联动，如超级面板6S。可实现云场景、自动化等高级功能。




## 重置设备(恢复出厂设置)

确保驱动已接灯具且处于常亮状态下，使用开关让驱动连续断通电6次（每次断电时间15秒，通电2秒），第六次通电2秒后，灯具闪烁5次，即表示驱动已恢复到出厂设置状态。



开(通电) 2秒

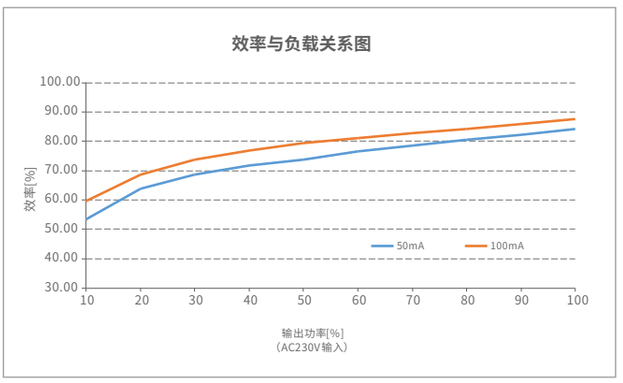
关(断电) 15秒

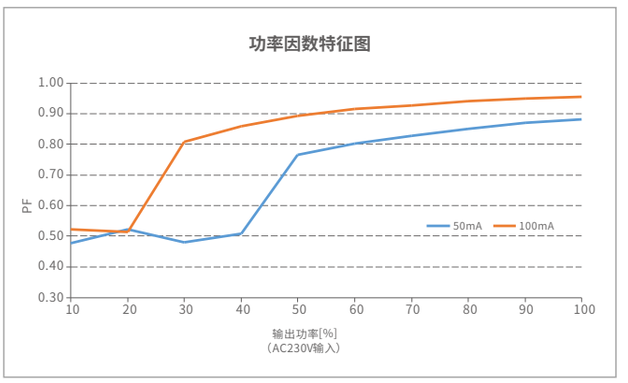
在通电情况下进行

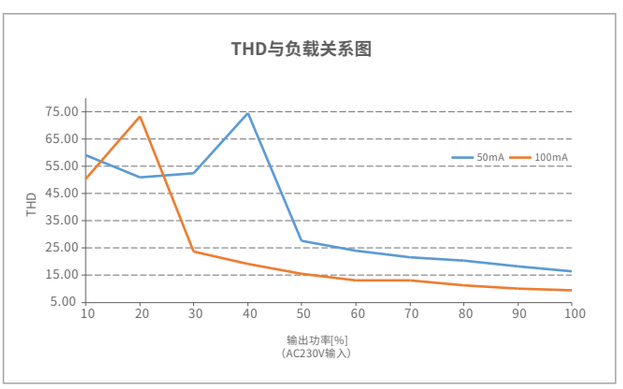
断电 —— 15秒 —— 通电 —— 2秒 —— ……

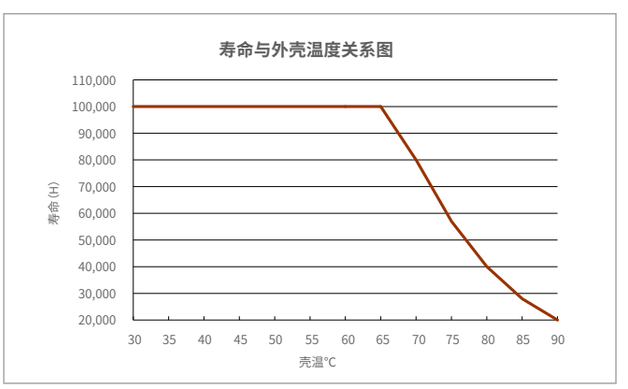
(重复6次)

## 关系图表



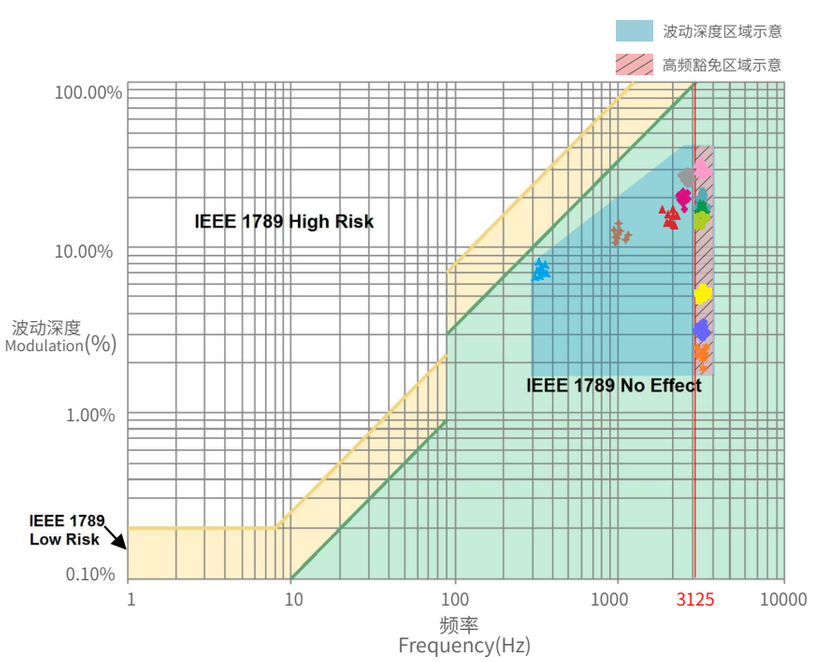

**SE-20-50-100-W5B**

## 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 | SE-20-50-100-W5B |
| 包装箱尺寸 | 290×275×106mm(L×W×H) |
| 数量 | 20PCS/层; 2层/箱; 40PCS/箱 |
| 重量 | 0.11kg/PC; 52kg±5%/箱 |

## 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；
- 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。

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 | 2024.10.23 | 正稿 | 黎海鹏 |
| A1 | 2025.11.01 | 更换logo；更新镭雕；更新公司地址 | 黎海鹏 |