



LED Current Selection

DIP switch quickly selects 8th gear current value



|                    |                |          |          |          |       |          |          |          |          |            |
|--------------------|----------------|----------|----------|----------|-------|----------|----------|----------|----------|------------|
| SE-10-350-700-W1AS | DIP Switch     |          |          |          |       |          |          |          |          | <br>ON OFF |
|                    | Output Current | 350mA    | 400mA    | 450mA    | 500mA | 550mA    | 600mA    | 650mA    | 700mA    |            |
|                    | Output Voltage | 2-12V    | 2-12V    | 2-12V    | 2-12V | 2-10V    | 2-12V    | 2-12V    | 2-12V    |            |
|                    | Output Power   | 0.7-4.2W | 0.8-4.8W | 0.9-5.4W | 1-6W  | 1.1-6.6W | 1.2-7.2W | 1.3-7.8W | 1.4-8.4W |            |

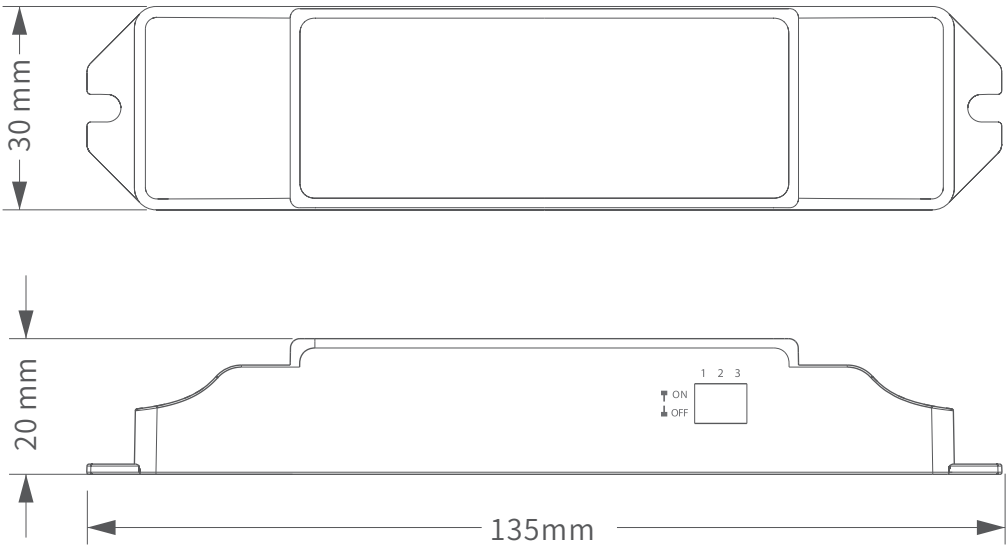
|                    |                |          |           |          |            |         |            |         |  |            |
|--------------------|----------------|----------|-----------|----------|------------|---------|------------|---------|--|------------|
| SE-12-100-400-W1AS | DIP Switch     |          |           |          |            |         |            |         |  | <br>ON OFF |
|                    | Output Current | 100mA    | 150mA     | 200mA    | 250mA      | 300mA   | 350mA      | 400mA   |  |            |
|                    | Output Voltage | 9-42V    | 9-42V     | 9-42V    | 9-42V      | 9-40V   | 9-34V      | 9-30V   |  |            |
|                    | Output Power   | 0.9-4.2W | 1.35-6.3W | 1.8-8.4W | 2.25-10.5W | 2.7-12W | 3.15-11.9W | 3.6-12W |  |            |

|                    |                |           |          |            |         |            |         |          |           |            |
|--------------------|----------------|-----------|----------|------------|---------|------------|---------|----------|-----------|------------|
| SE-12-350-700-W1AS | DIP Switch     |           |          |            |         |            |         |          |           | <br>ON OFF |
|                    | Output Current | 350mA     | 400mA    | 450mA      | 500mA   | 550mA      | 600mA   | 650mA    | 700mA     |            |
|                    | Output Voltage | 9-24V     | 9-24V    | 9-24V      | 9-24V   | 9-22V      | 9-20V   | 9-18.5V  | 9-17V     |            |
|                    | Output Power   | 3.15-8.4W | 3.6-9.6W | 4.05-10.8W | 4.5-12W | 4.95-12.1W | 5.4-12W | 5.85-12W | 6.3-11.9W |            |

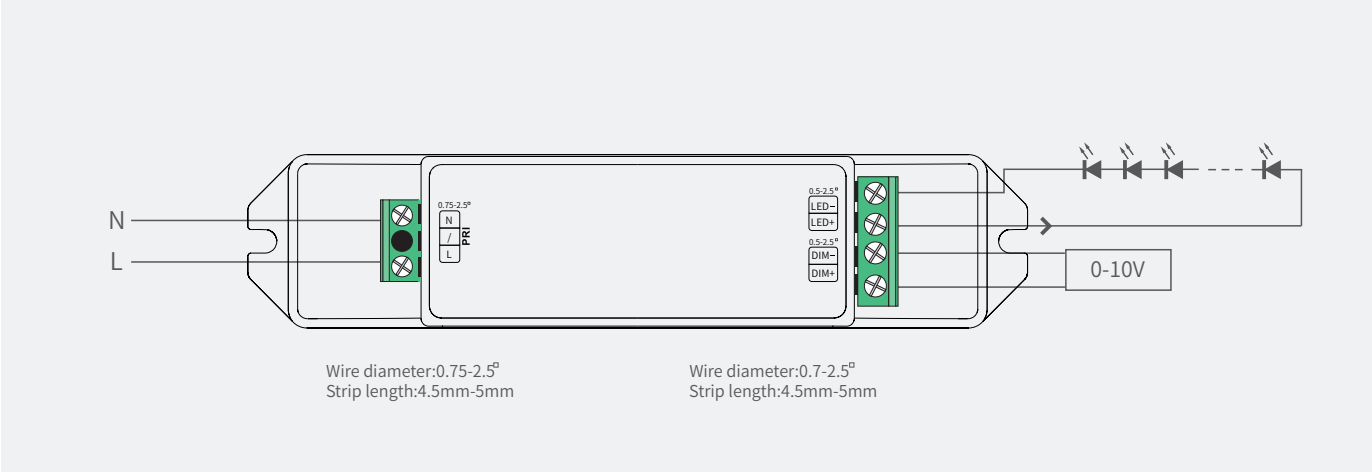
- \* Before setting the current via the DIP switches, confirm that the LED driver is powered off. To make the current setting effective, you need to power on the driver again.  
(Note: If you do not power off the driver before setting the current, it may cause damage to the light fixture.)
- \* E.g. LED 3V/pcs: 9-42V can power 3-14pcs LEDs in series, 9-21.5V can power 3-7pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

Product Size

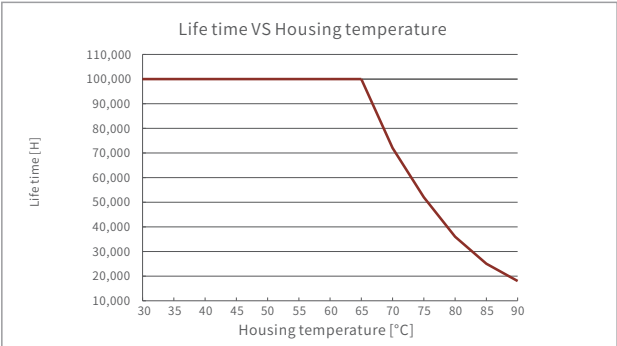
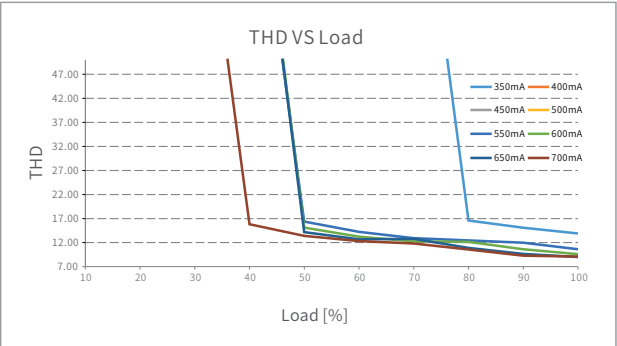
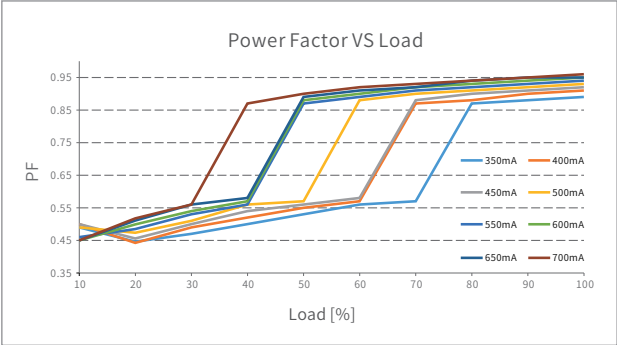
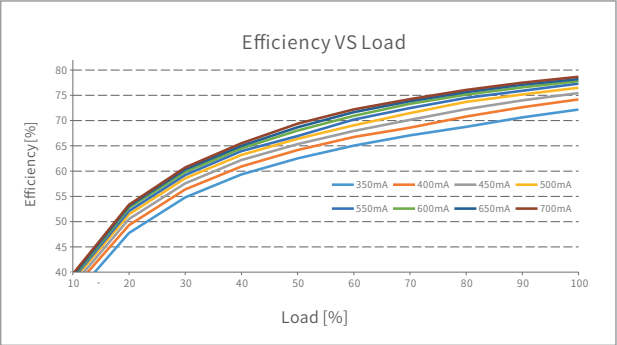
Unit:mm



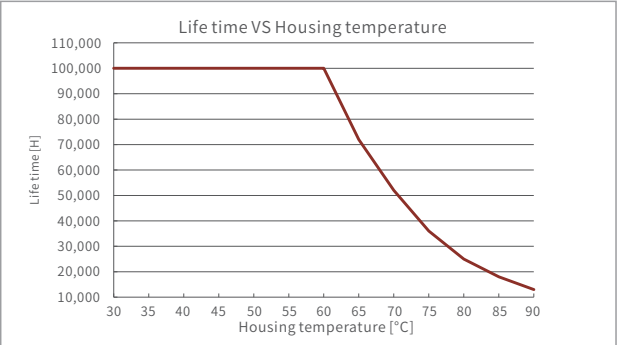
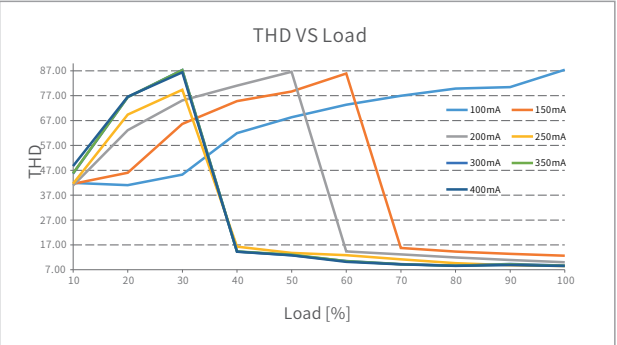
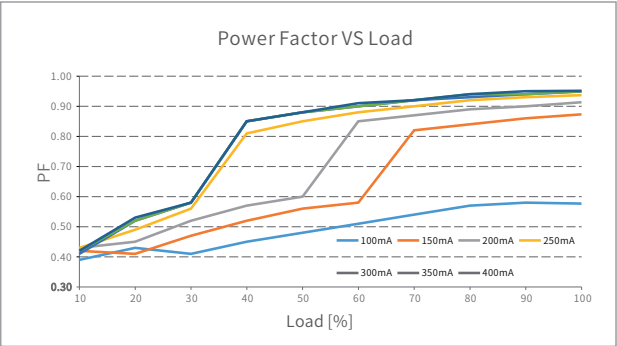
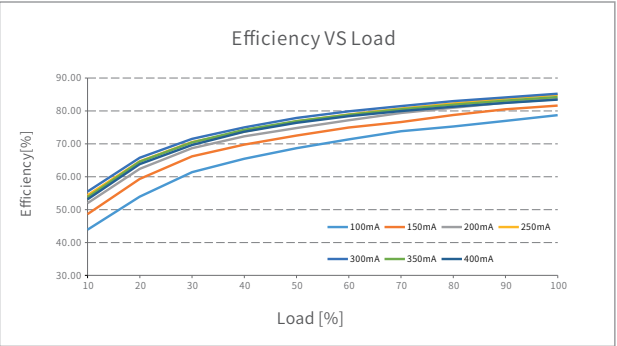
Wiring Diagram



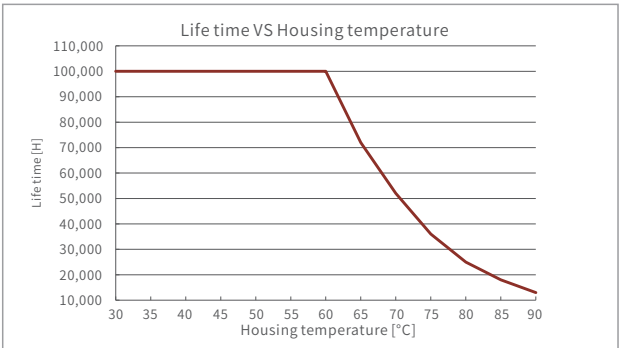
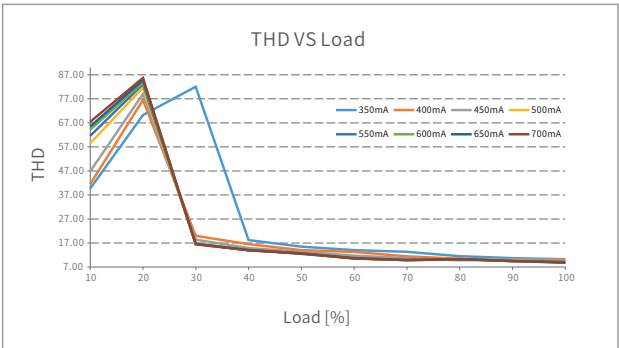
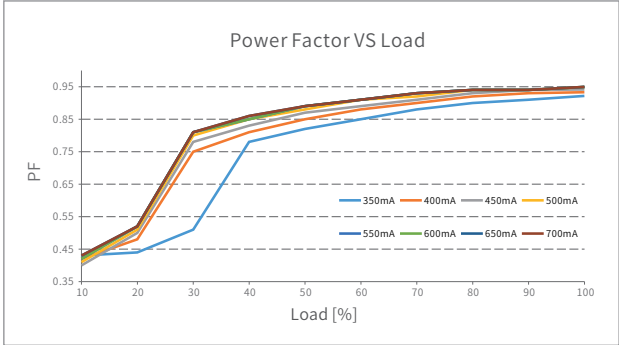
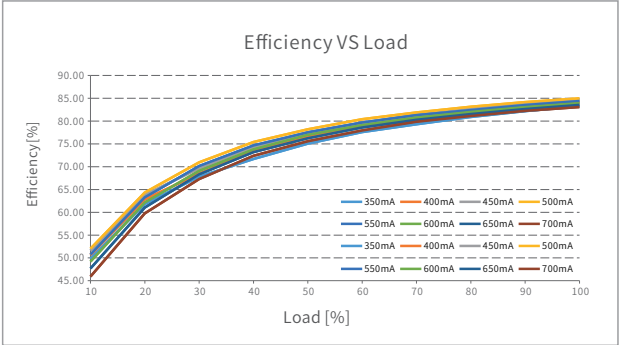
Relationship Diagrams



SE-10-350-700-W1AS



SE-12-100-400-W1AS



SE-12-350-700-W1AS

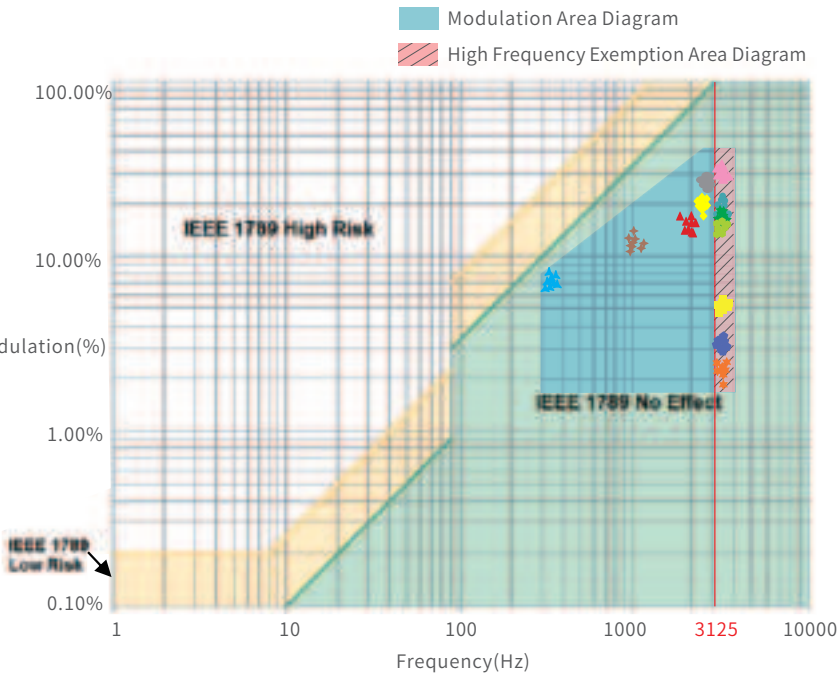
Flicker Test Sheet

IEEE 1789

| Limit of modulation in low risk area  |                                                 |
|---------------------------------------|-------------------------------------------------|
| Waveform frequency of optical output  | limit (%)                                       |
| $f \leq 8\text{Hz}$                   | 0.2                                             |
| $8\text{Hz} < f \leq 90\text{Hz}$     | $0.025 \times f$                                |
| $90\text{Hz} < f \leq 1250\text{Hz}$  | $0.08 \times f$                                 |
| $f > 1250\text{Hz}$                   | Exemption assessment                            |
| Limit of modulation in no effect area |                                                 |
| Waveform frequency of optical output  | limit (%)                                       |
| $f \leq 10\text{Hz}$                  | 0.1                                             |
| $10\text{Hz} < f \leq 90\text{Hz}$    | $0.01 \times f$                                 |
| $90\text{Hz} < f \leq 3125\text{Hz}$  | $(0.08/2.5) \times f$                           |
| $f > 3125\text{Hz}$                   | 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 frequency is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.



|                   |                                                          |
|-------------------|----------------------------------------------------------|
| Model             | SE-10-350-700-W1AS/SE-12-100-400-W1AS/SE-12-350-700-W1AS |
| Carton Dimensions | 350×285×180mm(L×W×H)                                     |
| Quantity          | 30 PCS/Layer; 5 Layers/Carton; 150 PCS/Carton            |
| Weight            | 0.08 kg/PC; 12 kg±5%/Carton                              |



Inner Packaging Box



Carton Packaging

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.

- This product must be installed and adjusted 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 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      | 20230307     | Original version                            | Yang Weiling |
| A1      | 20250723     | Update logo,laser engraving,company address | Simin Zhong  |

LED智能调光驱动器 (恒流型)

- 外壳采用科思创/三星PC阻燃V0级原料
- 体积小、重量轻
- 自动识别0-10V、1-10V输入
- 0-10V端口超低消耗<0.05mA
- 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，呈现高级感
- 0-100%全程调光无可视频闪, 高频豁免考核级别
- 调光范围0~100%，LED从0.01%开始调光
- 欧盟ERP空载功耗、网络待机功耗<0.5W
- 多电流、宽电压，适用不同功率的LED
- 空载0V输出，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100,000小时
- 5年保修期（采用红宝石电容）

4合1调光  
0-10V  
1-10V  
10V PWM  
RX



调光

T-PWM  
超深度调光技术

无频闪  
IEEE1789  
高频豁免考核级别

Dimmable:  
■■■■■■■■■■  
1:10000

认证图标仅代表产品正在进行一系列的认证申请，认证资质以产品实物为准。

技术参数

| 型号                               |            | SE-10-350-700-W1AS                                          |                          | SE-12-100-400-W1AS                                                 |  | SE-12-350-700-W1AS                  |  |
|----------------------------------|------------|-------------------------------------------------------------|--------------------------|--------------------------------------------------------------------|--|-------------------------------------|--|
| 特征                               | 输出类型       | 恒流                                                          |                          |                                                                    |  |                                     |  |
|                                  | 调光接口       | 0-10V (1-10V, 10V PWM, RX)                                  |                          |                                                                    |  |                                     |  |
|                                  | 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       | 2-12Vdc                                                     |                          | 9-42Vdc                                                            |  | 9-24Vdc                             |  |
|                                  | 最大输出电压（空载） | ≤35Vdc                                                      |                          | ≤50Vdc                                                             |  | ≤35Vdc                              |  |
|                                  | 工作电流范围     | 350-700mA                                                   |                          | 100-400mA                                                          |  | 350-700mA                           |  |
|                                  | 负载功率范围     | 0.7W-8.4W                                                   |                          | 0.9W-12W                                                           |  | 3.15W-12W                           |  |
|                                  | 调光范围       | 0~100%，调光深度: Max. 0.01%                                     |                          |                                                                    |  |                                     |  |
|                                  | 电流纹波       | <3% (非调光状态)                                                 |                          |                                                                    |  |                                     |  |
|                                  | 电流精度       | ±5%                                                         |                          |                                                                    |  |                                     |  |
| 输入                               | PWM调光频率    | ≤3600Hz                                                     |                          |                                                                    |  |                                     |  |
|                                  | 直流电压范围     | 100-240Vdc                                                  |                          |                                                                    |  |                                     |  |
|                                  | 交流电压范围     | 100-240Vac                                                  |                          |                                                                    |  |                                     |  |
|                                  | 额定电压       | 115Vac/230Vac                                               |                          |                                                                    |  |                                     |  |
|                                  | 频率范围       | 50/60Hz                                                     |                          |                                                                    |  |                                     |  |
|                                  | 输入电流       | ≤0.15A/115Vac(满载) ≤0.07A/230Vac(满载)                         |                          | ≤0.18A/115Vac(满载) ≤0.08A/230Vac(满载)                                |  | ≤0.18A/115Vac(满载) ≤0.08A/230Vac(满载) |  |
|                                  | 功率因数       | PF>0.95/115Vac(满载) PF>0.9C/230Vac(满载)                       |                          |                                                                    |  |                                     |  |
|                                  | 谐波THD      | THD≤10%/230Vac(满载)                                          |                          |                                                                    |  |                                     |  |
|                                  | 效率(Typ.)   | 75%(满载)                                                     |                          | 82%(满载)                                                            |  | 82%(满载)                             |  |
|                                  | 浪涌电流       | 冷启动,15A(在50%Ipeak下测twidth=102us)@230Vac                     |                          |                                                                    |  |                                     |  |
| 环境                               | 抗浪涌        | L-N:2KV                                                     |                          |                                                                    |  |                                     |  |
|                                  | 漏电流        | Max.0.24mA                                                  |                          |                                                                    |  |                                     |  |
|                                  | 工作温度       | ta: -20°C ~ 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                                         |                          |                                                                    |  |                                     |  |
| 保护                               | 温度系数       | ±0.03%/°C(-20°C~45°C)                                       |                          |                                                                    |  |                                     |  |
|                                  | 耐振动        | 10-500HZ, 2G 12分钟/周期, X, Y, Z轴各72分钟                         |                          |                                                                    |  |                                     |  |
|                                  | 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°C),智能调节电流输出或关闭,可自动恢复;PCB温度<90°C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                                           |                          |                                                                    |  |                                     |  |
| 安规和电磁规格                          | 短路保护       | 输出线路短路进入打嗝模式,可自动恢复                                          |                          |                                                                    |  |                                     |  |
|                                  | 耐压         | 输入对输出: 3750Vac                                              |                          |                                                                    |  |                                     |  |
|                                  | 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                       | EN61347-1, EN61347-2-13, EN62384                                   |  |                                     |  |
|                                  |            | UKCA                                                        | 英国                       | BS EN 61347-1, BS EN 61347-2-13, BS EN 62493                       |  |                                     |  |
|                                  | BIS        | 印度                                                          | IS 15885 (PART 2/SEC 13) |                                                                    |  |                                     |  |
|                                  | 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 IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 |  |                                     |  |
| 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                                                     |  |                                     |  |
|                                  |            | CIESVM                                                      |                          | PstLM≤1.0, SVM≤0.4                                                 |  |                                     |  |
|                                  | DF         | 相位因素                                                        |                          | DF≥0.9                                                             |  |                                     |  |
| 其他                               | 产品重量       | 80g±10g                                                     |                          |                                                                    |  |                                     |  |
|                                  | 产品尺寸       | 135×30×20mm(L×W×H)                                          |                          |                                                                    |  |                                     |  |

LED电流选择

DIP开关快速选择 8 档电流值

DIP 开关



|                    |       |          |          |          |       |          |          |          |          |            |
|--------------------|-------|----------|----------|----------|-------|----------|----------|----------|----------|------------|
| SE-10-350-700-W1AS | DIP开关 |          |          |          |       |          |          |          |          | <br>ON OFF |
|                    | 电流输出  | 350mA    | 400mA    | 450mA    | 500mA | 550mA    | 600mA    | 650mA    | 700mA    |            |
|                    | 电压输出  | 2-12V    | 2-12V    | 2-12V    | 2-12V | 2-10V    | 2-12V    | 2-12V    | 2-12V    |            |
|                    | 功率输出  | 0.7-4.2W | 0.8-4.8W | 0.9-5.4W | 1-6W  | 1.1-6.6W | 1.2-7.2W | 1.3-7.8W | 1.4-8.4W |            |

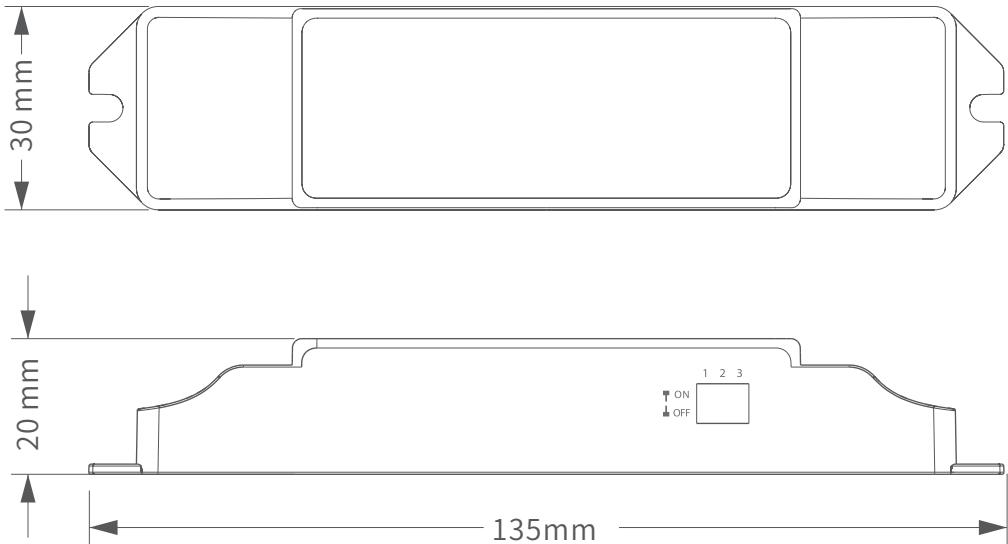
|                    |       |          |           |          |            |         |            |         |  |            |
|--------------------|-------|----------|-----------|----------|------------|---------|------------|---------|--|------------|
| SE-12-100-400-W1AS | DIP开关 |          |           |          |            |         |            |         |  | <br>ON OFF |
|                    | 电流输出  | 100mA    | 150mA     | 200mA    | 250mA      | 300mA   | 350mA      | 400mA   |  |            |
|                    | 电压输出  | 9-42V    | 9-42V     | 9-42V    | 9-42V      | 9-40V   | 9-34V      | 9-30V   |  |            |
|                    | 功率输出  | 0.9-4.2W | 1.35-6.3W | 1.8-8.4W | 2.25-10.5W | 2.7-12W | 3.15-11.9W | 3.6-12W |  |            |

|                    |       |           |          |            |         |            |         |          |           |            |
|--------------------|-------|-----------|----------|------------|---------|------------|---------|----------|-----------|------------|
| SE-12-350-700-W1AS | DIP开关 |           |          |            |         |            |         |          |           | <br>ON OFF |
|                    | 电流输出  | 350mA     | 400mA    | 450mA      | 500mA   | 550mA      | 600mA   | 650mA    | 700mA     |            |
|                    | 电压输出  | 9-24V     | 9-24V    | 9-24V      | 9-24V   | 9-22V      | 9-20V   | 9-18.5V  | 9-17V     |            |
|                    | 功率输出  | 3.15-8.4W | 3.6-9.6W | 4.05-10.8W | 4.5-12W | 4.95-12.1W | 5.4-12W | 5.85-12W | 6.3-11.9W |            |

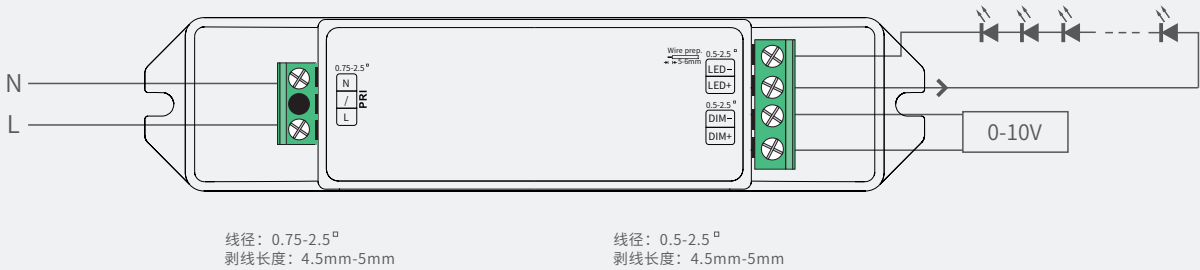
- \* 确保驱动断电，再进行DIP开关设置所需电流。驱动重新上电后所需电流生效(注：若驱动不断电设置电流，可能会造成对灯具损坏)。
- \* 假设LED的电压是3V/颗：电源9-42V的输出电压范围可串联3-14颗LED，9-27V的输出电压范围可串联3-9颗LED，最大串联数量以LED实际电压为准。

尺寸图

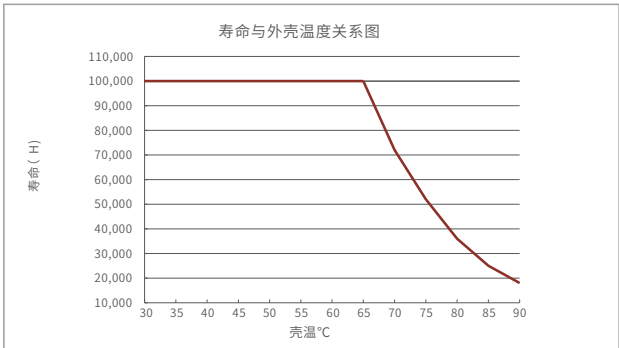
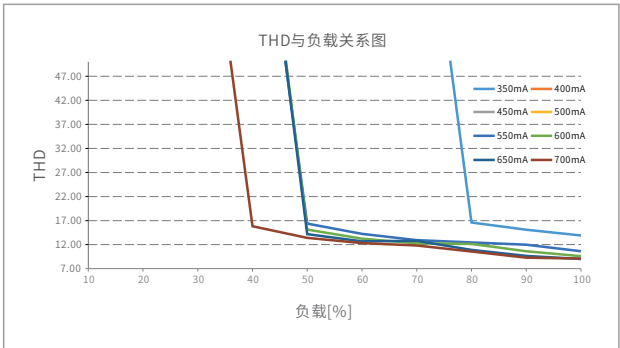
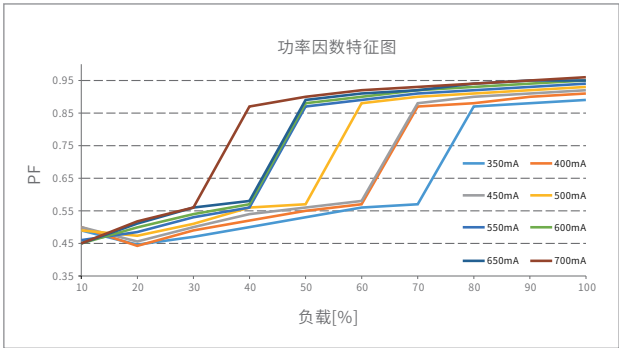
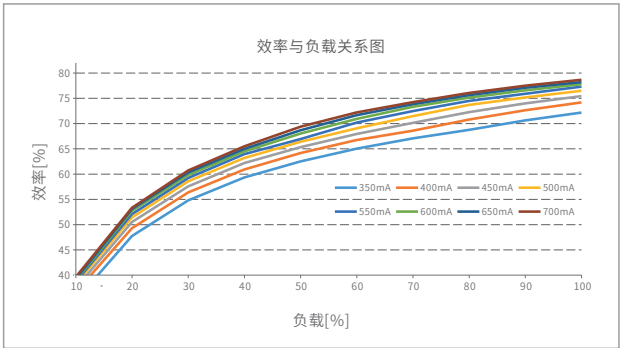
单位：mm



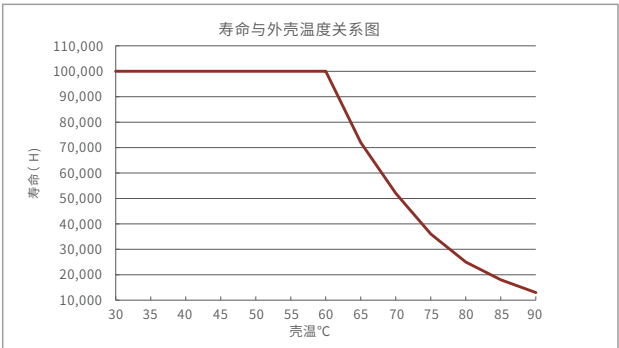
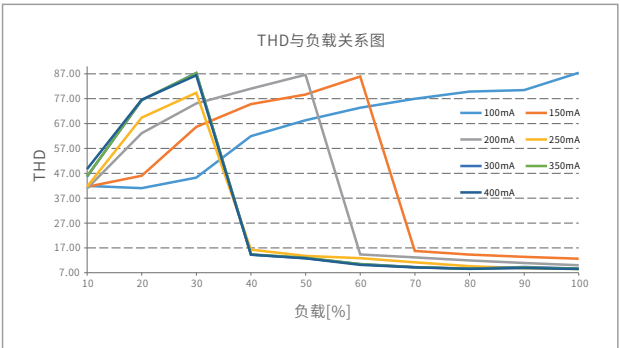
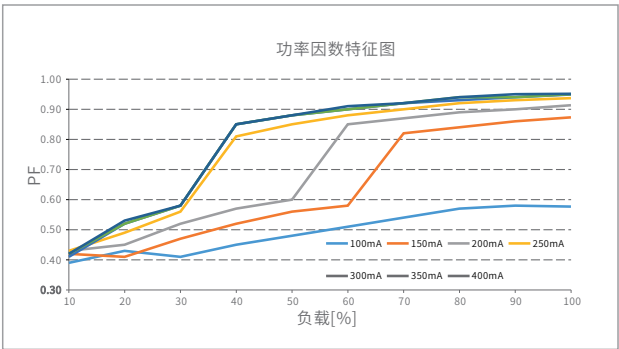
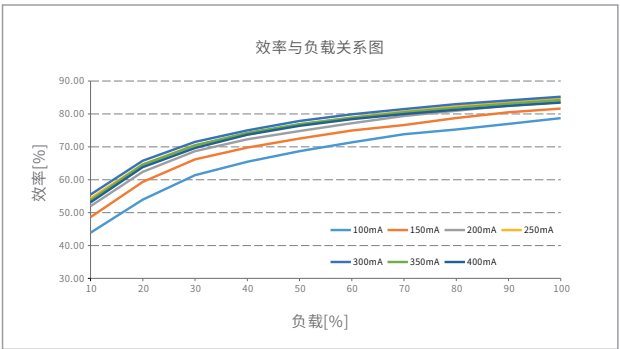
连线图



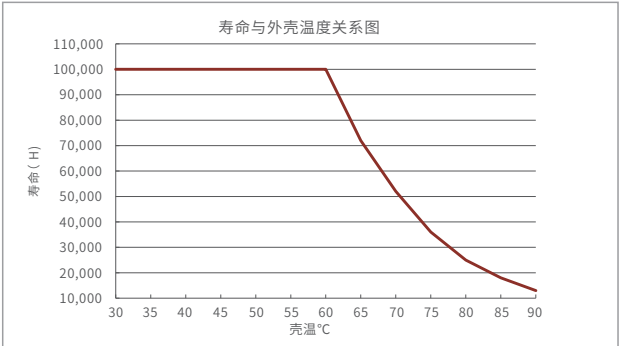
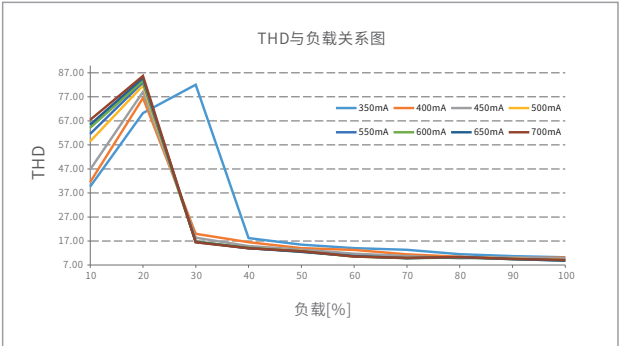
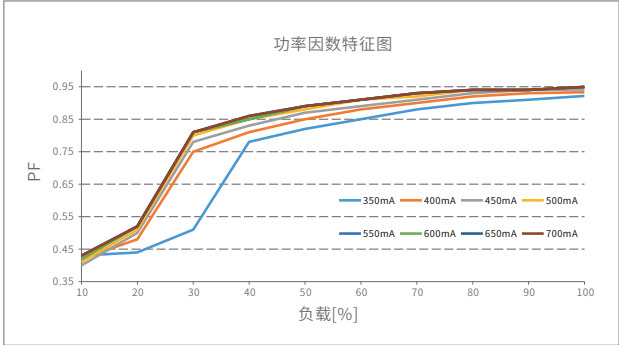
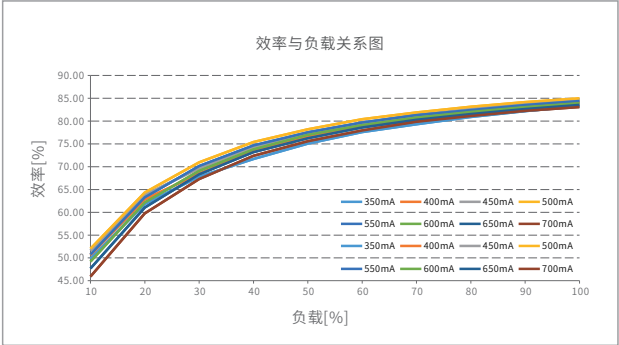
关系图表



SE-10-350-700-W1AS



SE-12-100-400-W1AS



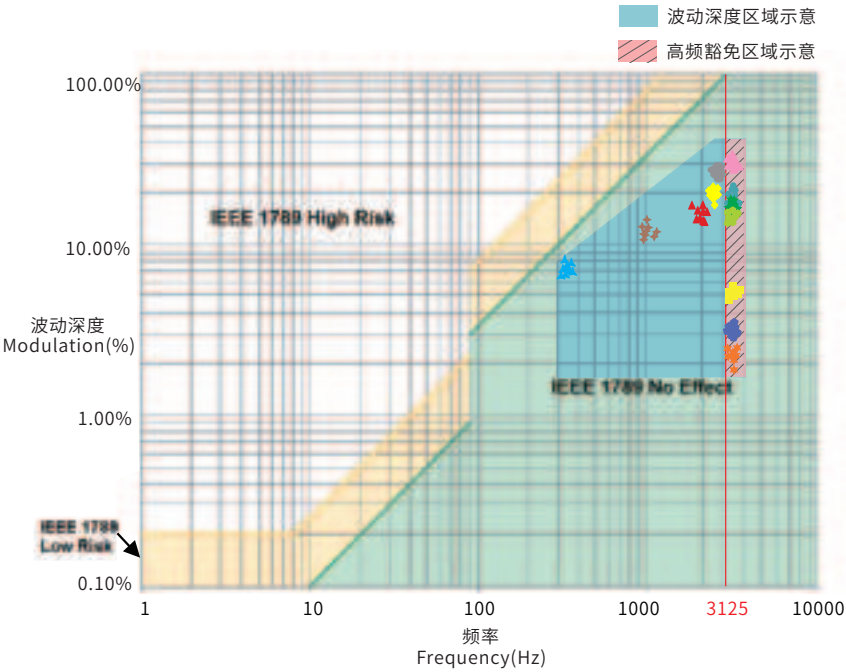
SE-12-350-700-W1AS

频闪测试表

| IEEE 1789                               |                       |
|-----------------------------------------|-----------------------|
| 低风险区域 (Low Risk) 的波动深度 (Modulation) 限值  |                       |
| 光输出波形频率 $f$                             | 限值 (%)                |
| $f \leq 8\text{Hz}$                     | 0.2                   |
| $8\text{Hz} < f \leq 90\text{Hz}$       | $0.025 \times f$      |
| $90\text{Hz} < f \leq 1250\text{Hz}$    | $0.08 \times f$       |
| $f > 1250\text{Hz}$                     | 免除考核                  |
| 无风险区域 (No Effect) 的波动深度 (Modulation) 限值 |                       |
| 光输出波形频率 $f$                             | 限值 (%)                |
| $f \leq 10\text{Hz}$                    | 0.1                   |
| $10\text{Hz} < f \leq 90\text{Hz}$      | $0.01 \times f$       |
| $90\text{Hz} < f \leq 3125\text{Hz}$    | $(0.08/2.5) \times f$ |
| $f > 3125\text{Hz}$                     | 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-10-350-700-W1AS/SE-12-100-400-W1AS/SE-12-350-700-W1AS |
| 包装箱尺寸 | 350×285×180mm（L×W×H）                                     |
| 数量    | 30 PCS/层；5 层/箱；150 PCS/箱                                 |
| 重量    | 0.08kg/PC；12±5% kg/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

- 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，需避免日晒雨淋，如安装在户外，请用防水箱。
- 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。
- 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科技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；
- 无雷特科技签订的合同或发票凭证。

1. 修理或更换是雷特科技对客户的最唯一补救措施。雷特科技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. 雷特科技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 | 2023.03.07 | 正稿             | 杨魏玲 |
| A1 | 2025.07.23 | 更新logo，镭雕、公司地址 | 钟思敏 |