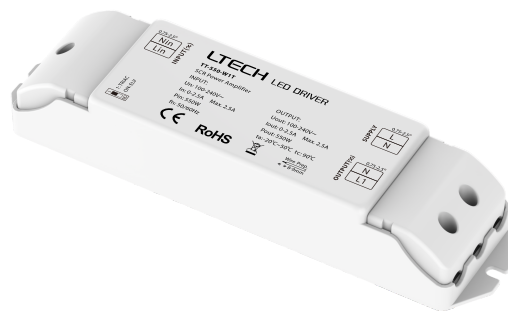


Phase Cut Power Amplifier

- Small size and light weight. The housing is made from V0 flame retardant PC materials from SAMSUNG/COVESTRO.
- Leading edge (Triac) and trailing edge (ELV) input. Available in Triac (leading edge) and ELV (trailing edge) output.
- Expand Phase cut power output.
- Have great compatibility that support converting from leading edge dimming to trailing edge dimming or vise versa.
- Work with dimmable LED bulbs or Phase cut LED drivers.
- Use the innovative thermal management technology to intelligently protect the lives of LED drivers.
- With overheat and overload protection, automatic recovery.

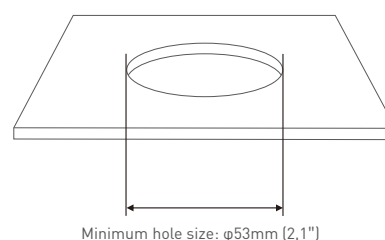
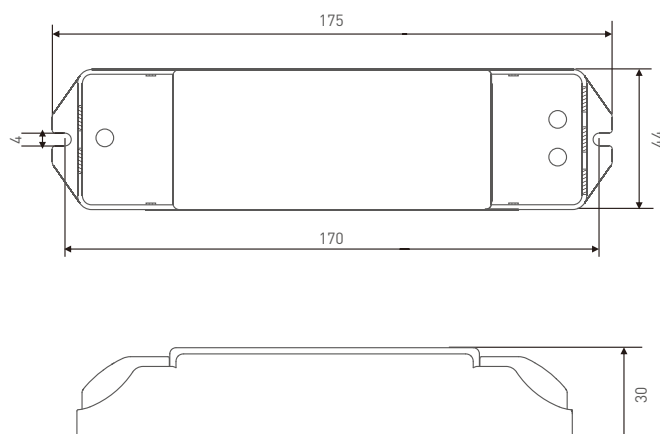


Technical Specs

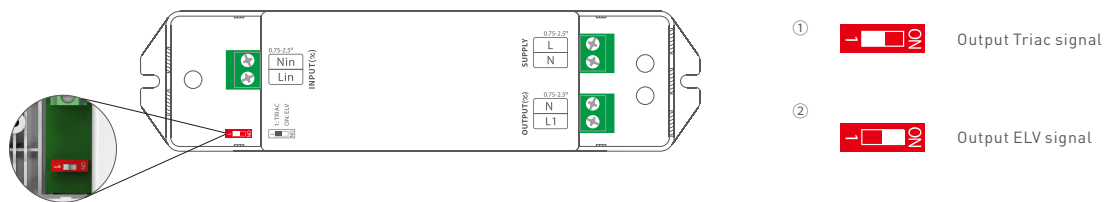
Model		TT-550-W1T
Features	Dimming Interface	Triac/ELV
	Output Feature	non-isolated
	Protection Grade	IP20
OUTPUT	Output Signal	Triac/ELV
	Output Voltage Range	100-240Vac
	Output Current	Max. 2.5A
	Output Power	Max. 550W
	Output Power Range	0-550W
	Overload Power Limitation	≥102%
	Load Surge Current	Max. 65A
INPUT	Input Voltage	100-240Vac
	Frequency	50/60Hz
	Input Current	≤2.5A/230Vac
ENVIRONMENT	Working Temperature	ta: -20 ~ 50°C tc: 90°C
	Working Humidity	20 ~ 95%RH, non-condensing
	Storage Temperature, Humidity	-40 ~ 80°C/10-95%RH
	Temperature Coefficient	±0.03%/°C(0-50°C)
	Vibration	10-500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively
PROTECTION	Overheat Protection	When the environment temperature exceeds 110°C under the rated load, the output will be turned off and will be restored once the temperature decreases.
	Overload Protection	When the rated power is exceeded, the output will be turned off and will be restored once the power is lowered
OTHERS	Warranty	5 years

Product Size

Unit: mm



Dip Switch Function

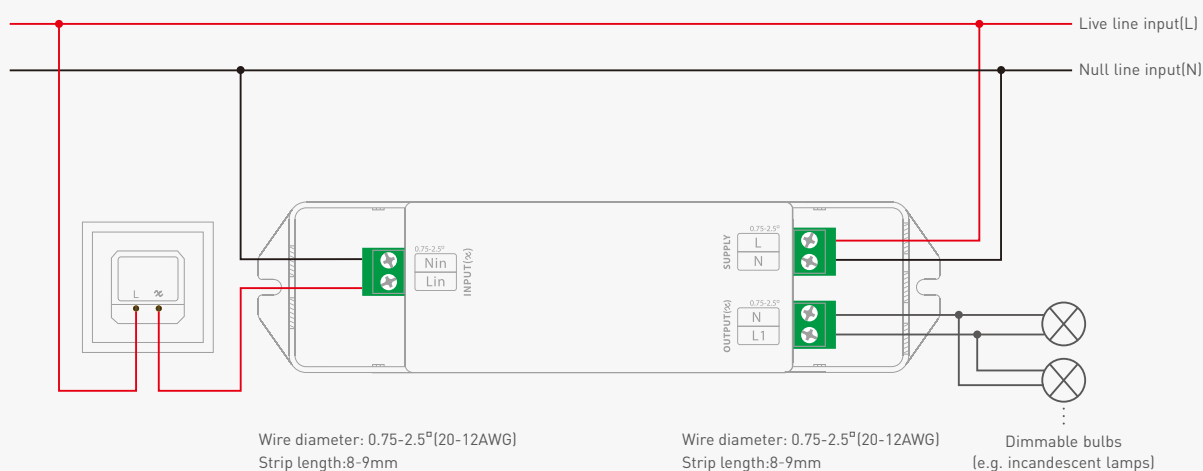


Wiring Diagram

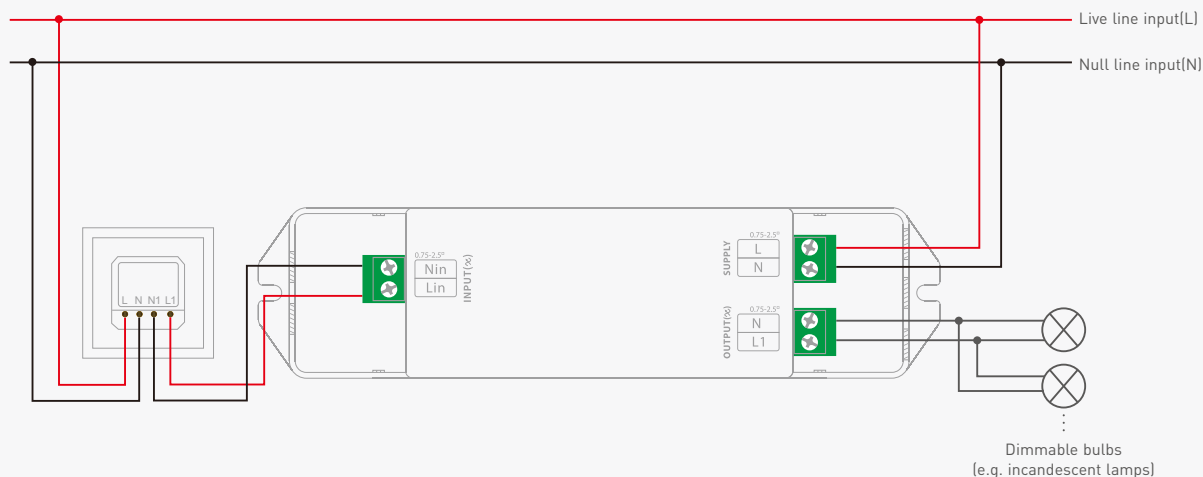
Note: In all connection modes shown below, the live lines (L line) both of the dimmers and the Supply in the Phase Cut Power Amplifiers must be the same phase line.

Connect to dimmable bulbs

Dimmer (with single live line) + Phase cut power amplifier + Dimmable bulbs (e.g. incandescent lamps)

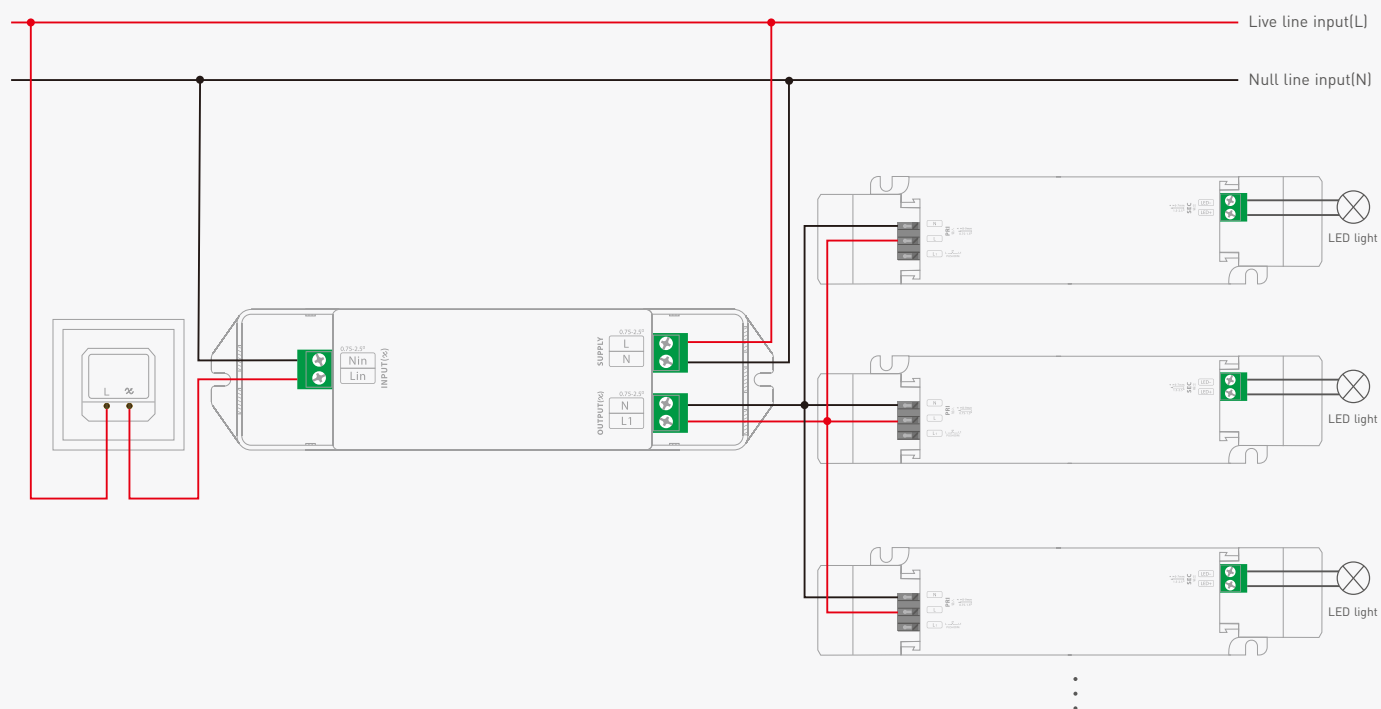


Dimmer (with null and live line) + Phase cut power amplifier + Dimmable bulbs (e.g. incandescent lamps)

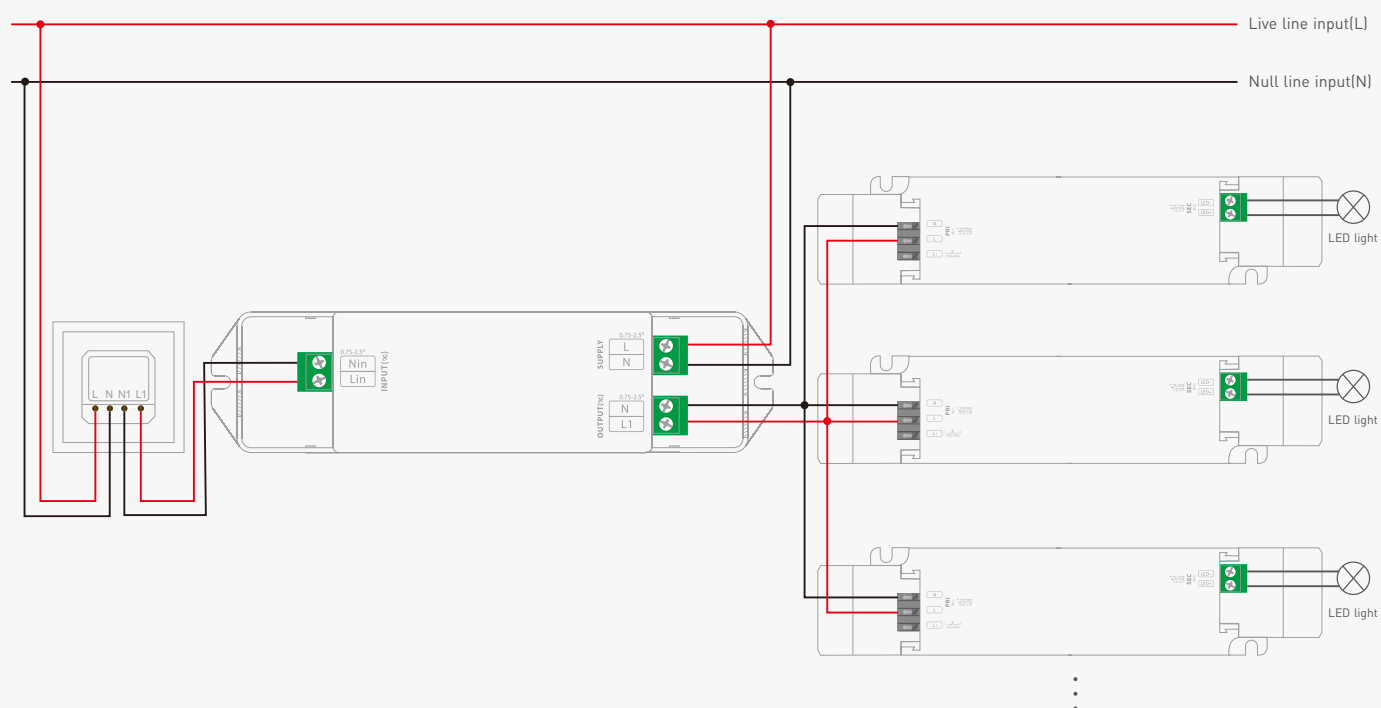


Connect to Phase cut LED drivers

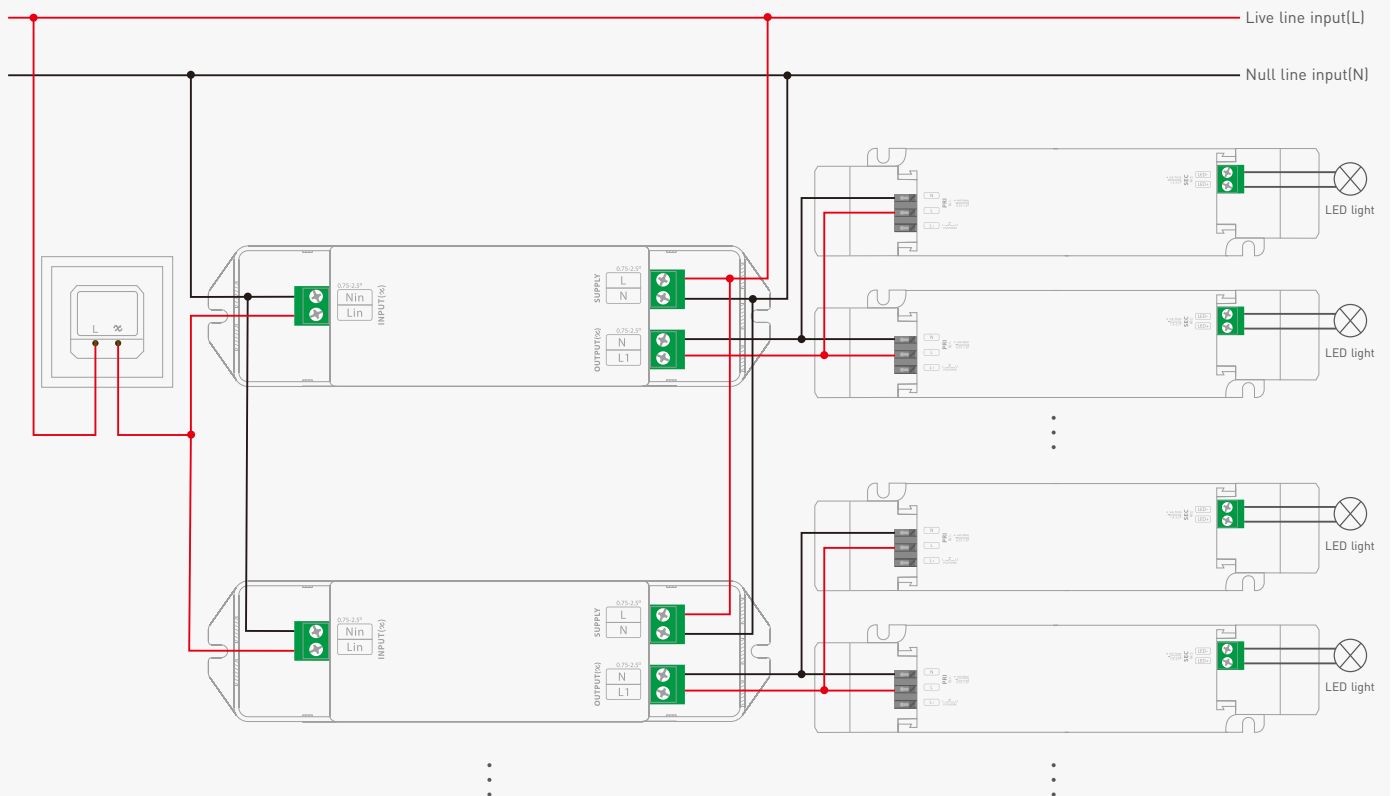
Dimmer (with single live line) + Phase cut power amplifier + Multiple Phase cut LED drivers



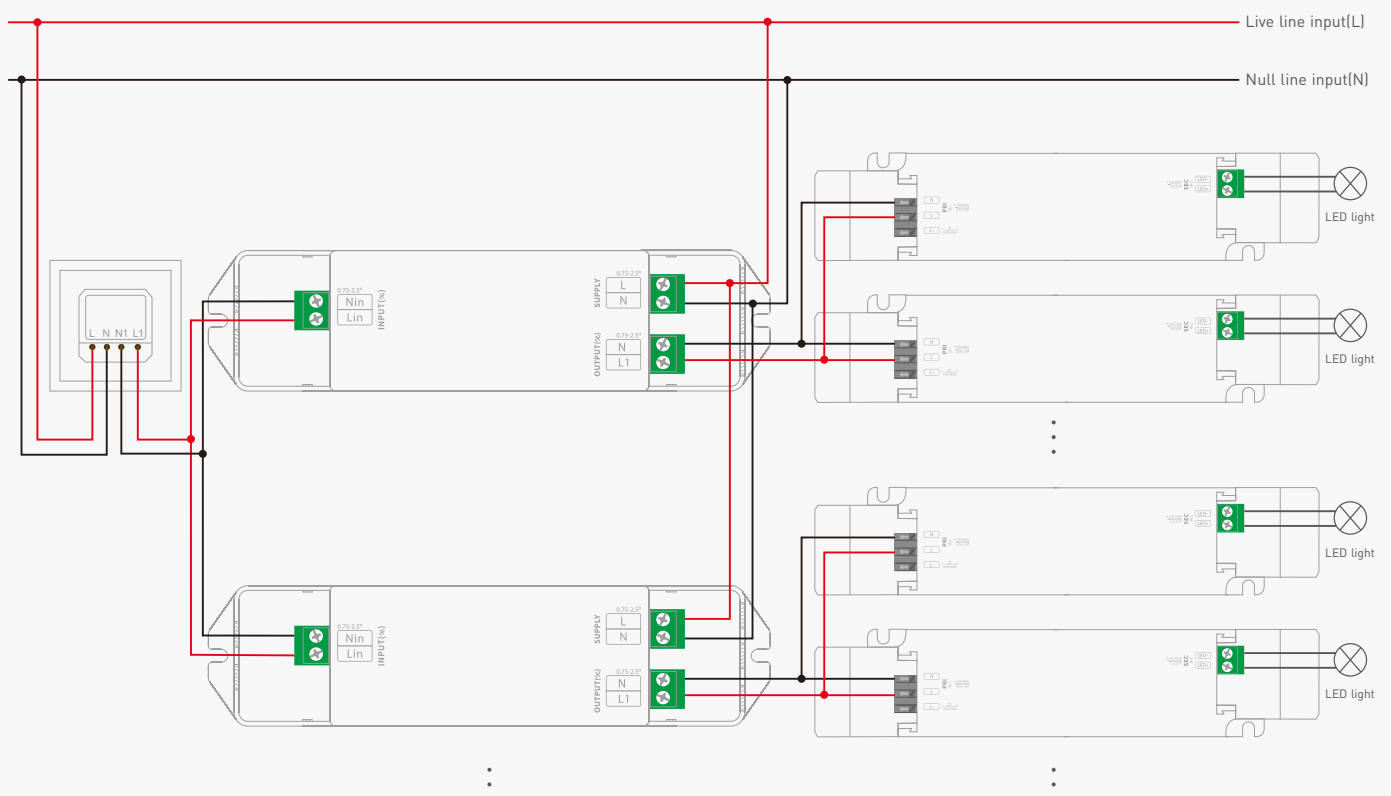
Dimmer (with null and live line) + Phase cut power amplifier + Multiple Phase cut LED drivers



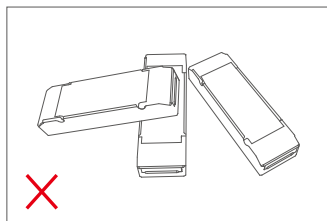
Dimmer (with single live line) + Multiple Phase cut power amplifiers + Multiple Phase cut LED drivers



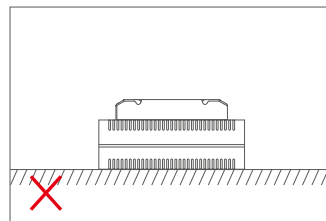
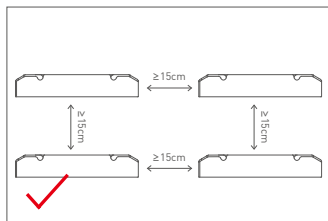
Dimmer (with null and live line) + Multiple Phase cut power amplifiers + Multiple Phase cut LED drivers



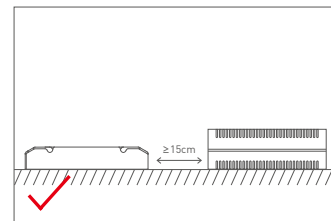
Installation Precautions



Please do not stack the products. The distance between two products should be $\geq 15\text{cm}$ so as not to affect heat dissipation and the lifespan of the products.



Please not place the products on LED drivers. The distance between the product and the driver should be $\geq 15\text{cm}$ so as not to affect heat dissipation and shorten the lifespan of the products.



Packaging Specifications

Model	TT-550-W1T
Carton Dimensions	340x340x156mm (LxWxH)
Quantity	20 PCS/Layer; 3 Layers/Carton; 60 PCS/Carton
Weight	0.19kg/PC; 12.2kg/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.
- This product is non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
- Please check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
- If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.

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

Warranty Agreement

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

Warranty exclusions below:

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

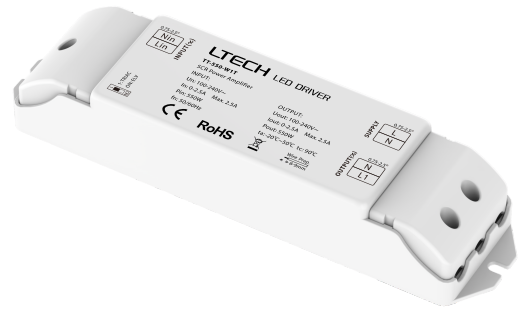
1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

Update Log

Version	Updated Time	Update Content	Updated by
A0	2022.03.07	Original version	Liu Weili
A1	2022.10.10	Updated the product silk screen printing and changed the button function to the dip switch function	Liu Weili

可控硅功率放大器

- 体积小、重量轻；外壳采用科思创/三星PC阻燃V0级原料
- Triac前沿, ELV后沿切相输入, 可选择Triac前沿或者ELV后沿输出
- 支持可控硅功率扩展使用(同一信号可接多个扩展器), 增加系统功率输出
- 支持切相转换使用(前沿转后沿, 后沿转前沿), 提高系统兼容性
- 支持连接可调光灯泡或者可控硅LED调光电源
- 创新的热管理技术, 智能保护电源寿命
- 过温、过载保护, 可自动恢复

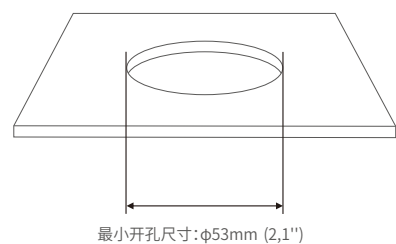
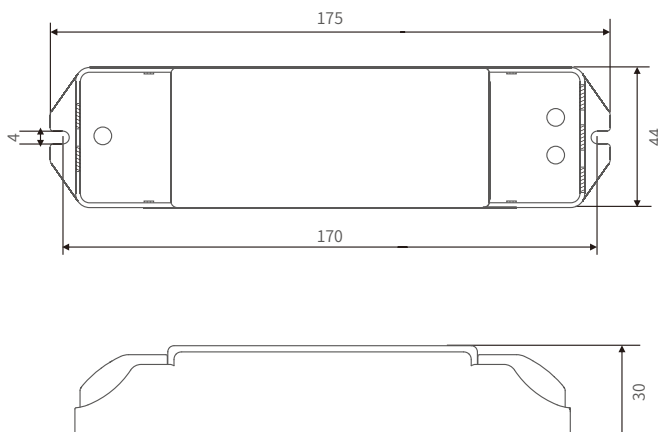


技术参数

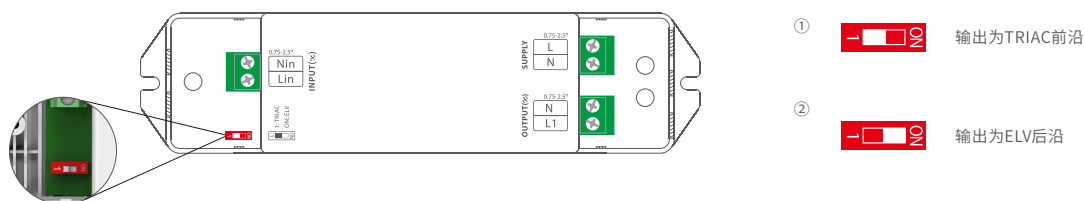
型号	TT-550-W1T	
特征	调光类型	Triac前沿/ELV后沿
	输出特征	非隔离
	防护等级	IP20
输出	输出信号	前沿或后沿
	输出电压范围	100-240Vac
	输出电流	Max. 2.5A
	输出功率	Max. 550W
	输出功率范围	0~550W
	过载功率限制	≥102%
	负载浪涌电流	Max. 65A
输入	额定电压	100-240Vac
	频率范围	50/60Hz
	输入电流	≤2.5A/230Vac
环境	工作温度	ta: -20 ~ 50°C tc: 90°C
	工作湿度	20 ~ 95%RH, 无冷凝
	储存温度/湿度	-40 ~ 80°C/10~95%RH
	温度系数	±0.03%/°C(0-50°C)
	耐振动	10-500HZ, 2G 12分钟/周期, X, Y, Z轴各72分钟
保护	过温保护	额定负载下环境温度超过110°C, 关闭输出, 温度降低恢复输出
	过载保护	超过额定功率关闭输出, 减轻恢复输出
其他	质保	5年

尺寸图

单位: mm



拨码功能

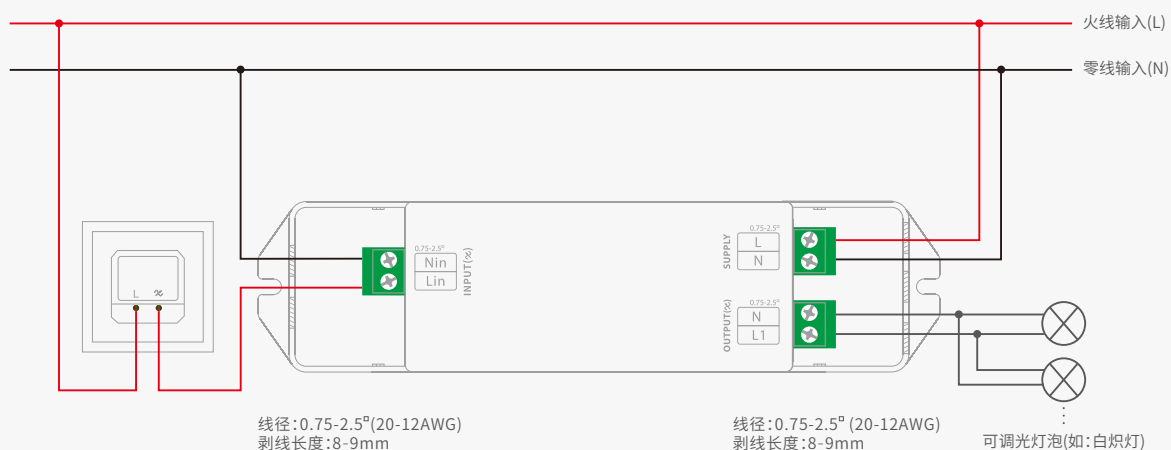


连接应用图

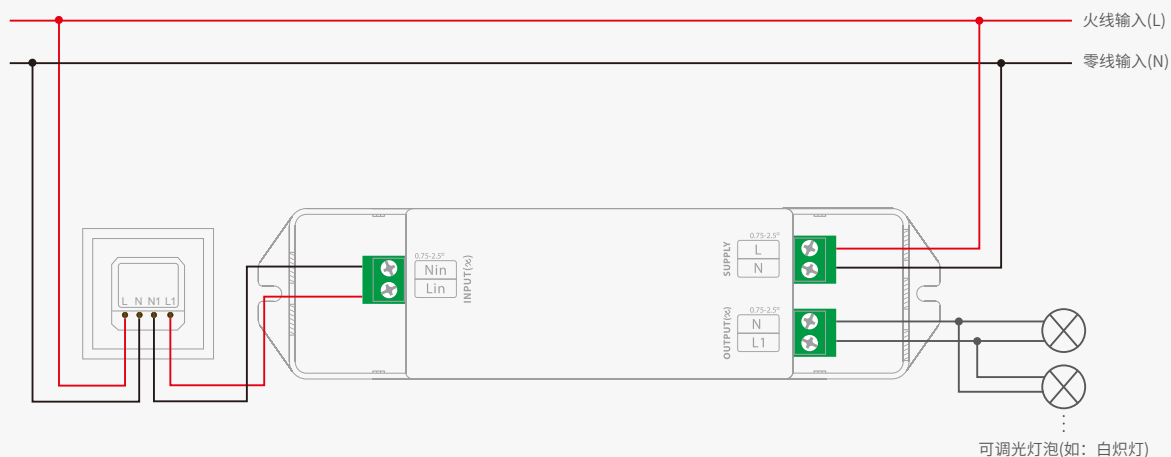
注意：图中所有连接方式中前端调光器与可控硅功率放大器的Supply的L线必须是同一相线。

可调光灯泡连接方式

单火线调光器 + 可控硅功率放大器 + 可调光灯泡 (如：白炽灯)

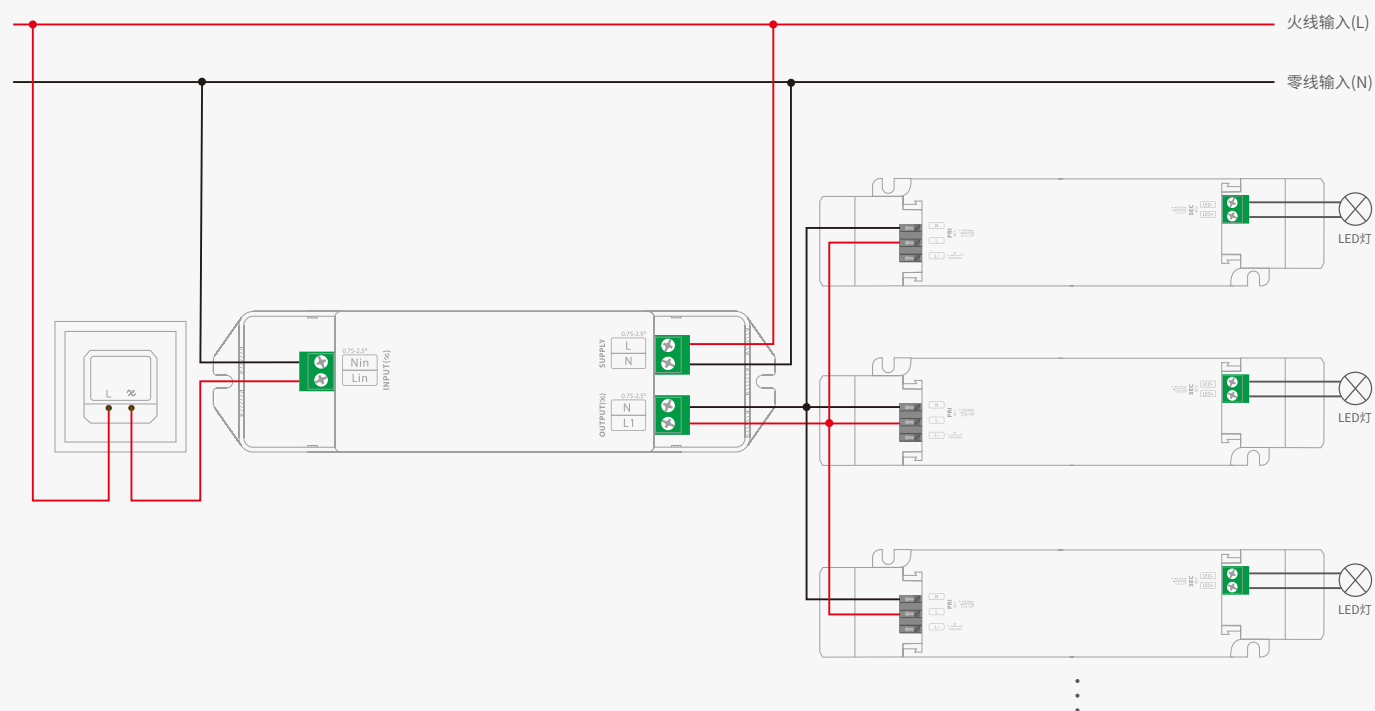


零火线调光器 + 可控硅功率放大器 + 可调光灯泡 (如：白炽灯)

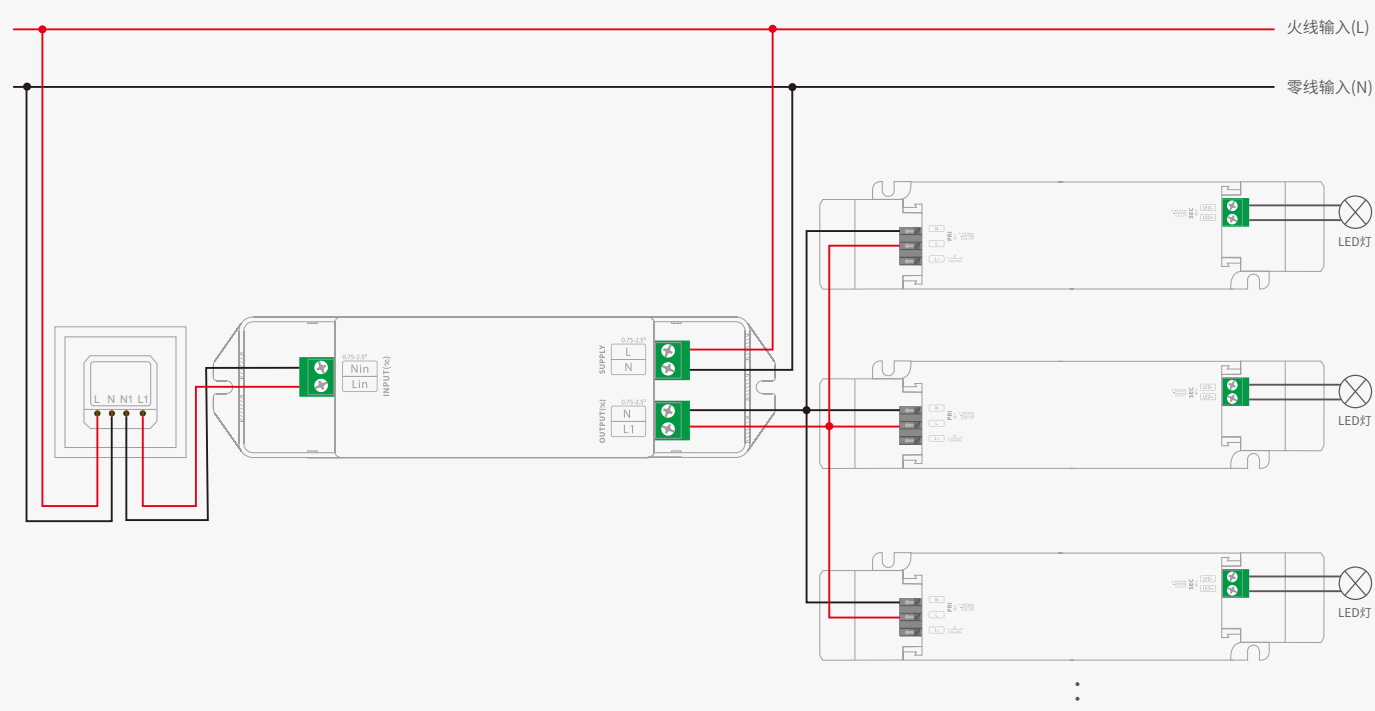


可控硅电源连接方式

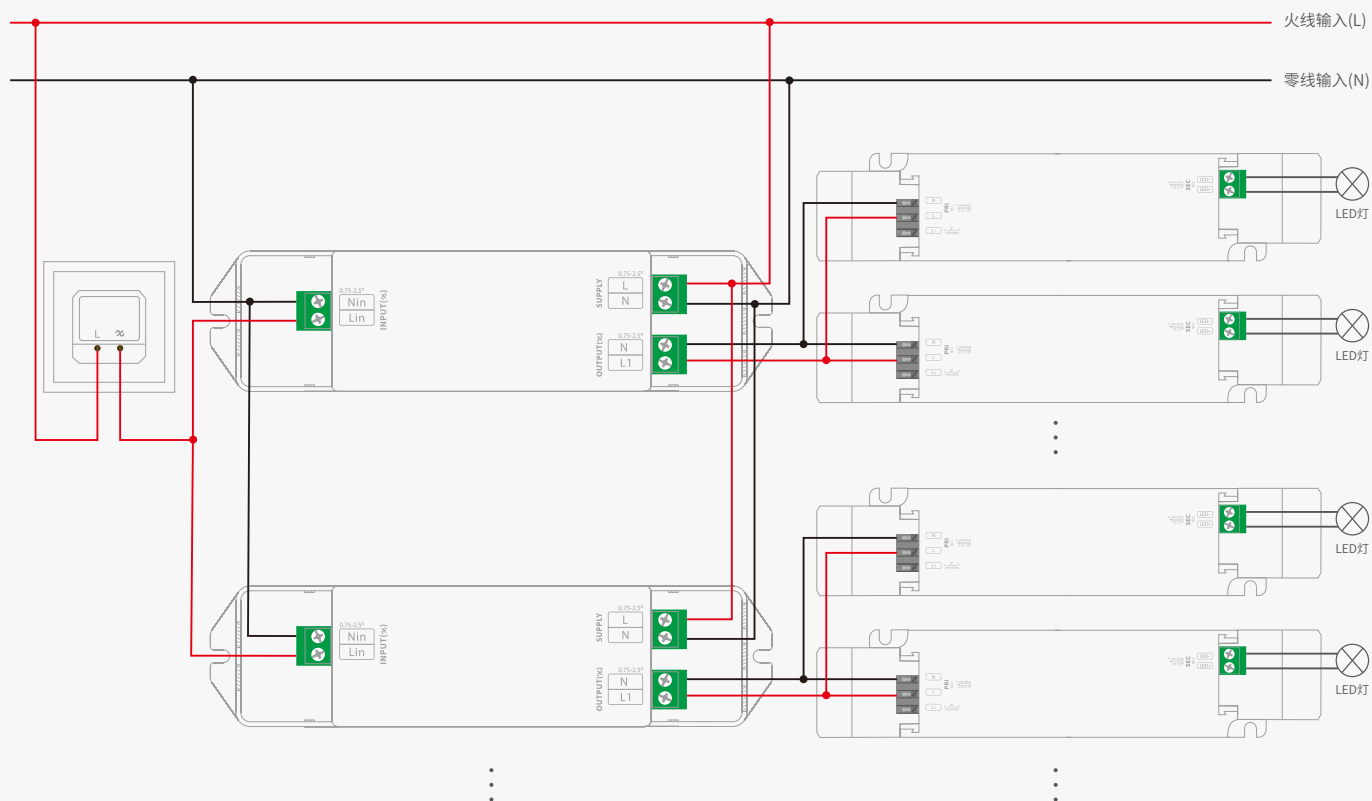
单火线调光器 + 可控硅功率放大器 + 多台可控硅调光电源



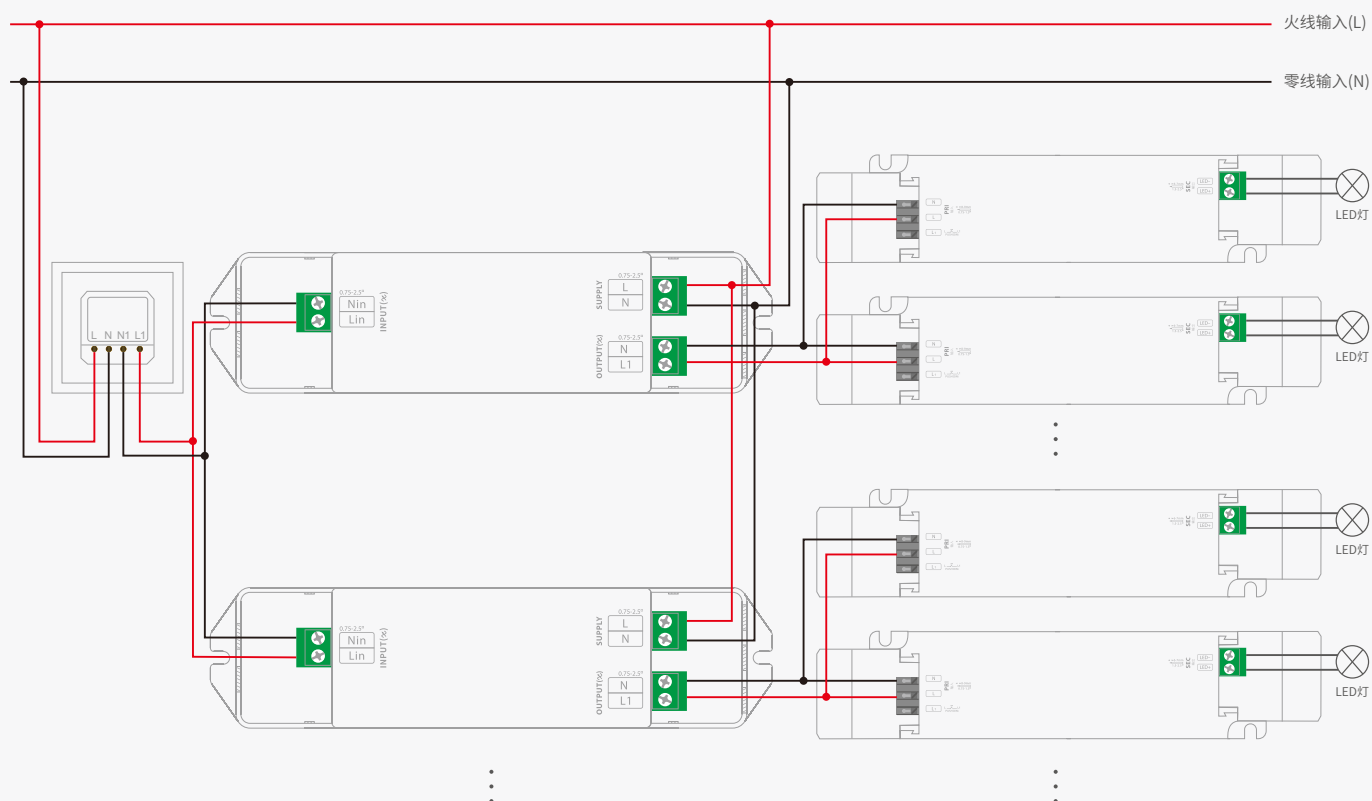
零火线调光器 + 可控硅功率放大器 + 多台可控硅调光电源



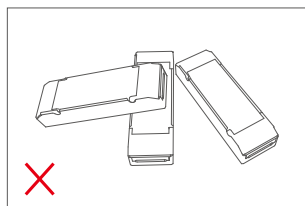
单火线调光器 + 多台可控硅功率放大器 + 多台可控硅调光电源



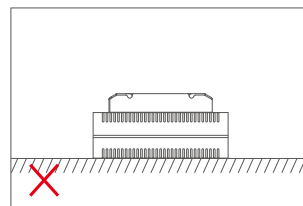
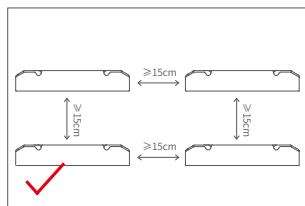
零火线调光器 + 多台可控硅功率放大器 + 多台可控硅调光电源



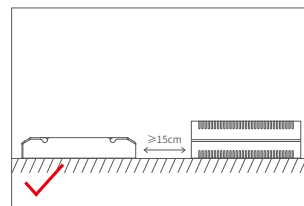
安装注意事项



请勿将产品堆叠摆放，产品与产品间隔距离应 $\geq 15\text{cm}$ ，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 $\geq 15\text{cm}$ ，避免影响产品散热而减少使用寿命。



包装规格

型号	TT-550-W1T
包装箱尺寸	340x340x156mm (L×W×H)
数量	20PCS/层; 3层/箱; 60PCS/箱
重量	0.19kg/PC; 12.2kg/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；
- 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一补救措施。雷特不承担任何附带引起的损害赔偿，除非在适用法律范围之内。
2. 雷特享有修正或调整本保修条款的权利，并以书面形式发布为准。

更新日志

版本	更改日期	更改内容	更改人
A0	2022.02.11	正稿	刘伟丽
A1	2022.10.10	更新产品丝印，按键功能改为拨码功能	刘伟丽