

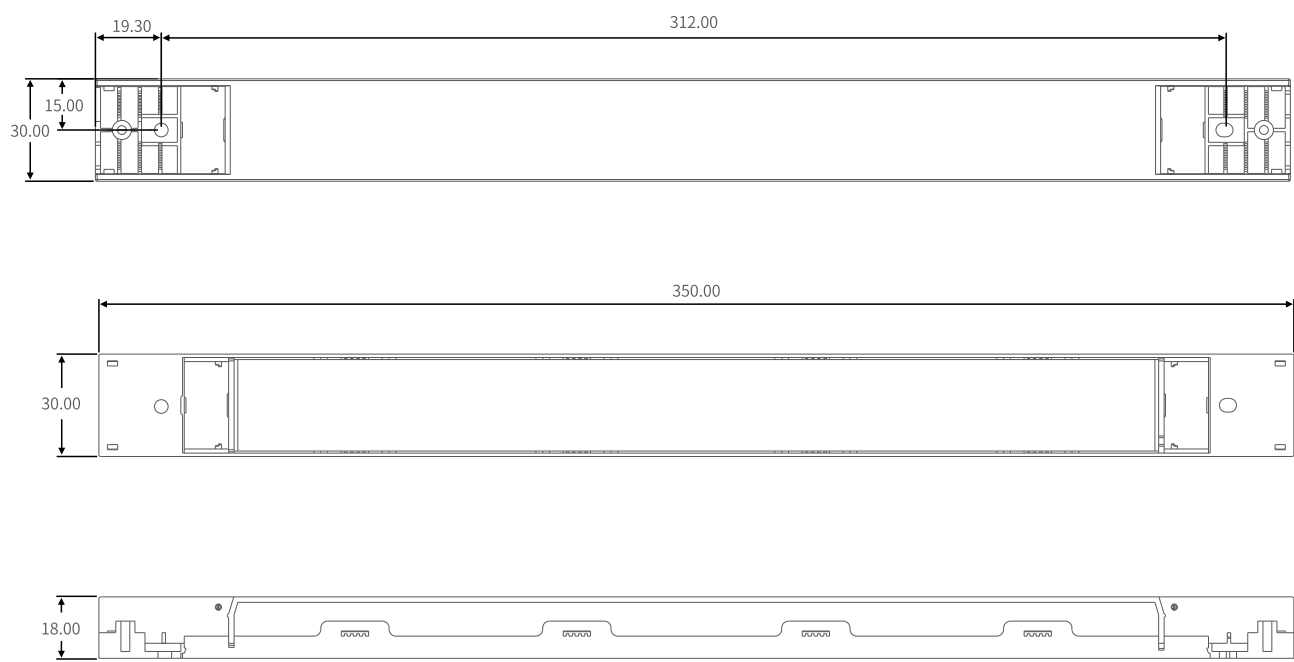
- ultra-thin volume; The shell is made of PC flame retardant V0 grade raw material, and the clamshell is integrated.
- Dimming from 0~100%, down to 0.01%.
- Flicker-Free (0-100% Dimming), meeting high-frequency exemption compliance level.
- High-performance power supply: 93% efficiency, PF>0.97, THD<10%.
- In line with the EU Energy Efficiency ERP Directive, the power consumption of no-load and network standby < 0.5W.
- Innovative thermal management technology intelligently protects the life of the power supply.
- Overheat, overload, short circuit protection and automatic recovery
- Suitable for Class I/II indoor light fixtures.
- Suitable for indoor lighting such as light strips and magnetic track light.
- 5-year warranty.



Model	SN-150-24-G1D			
Features	Output Type	Constant voltage		
	Dimming Interface	DALI-2 DT6, PUSH DIM		
	Output Feature	Isolation		
	Protection Grade	IP20		
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)		
OUTPUT	Output Voltage	24Vdc		
	Output Voltage Range	24Vdc±0.5Vdc		
	Output Current	Max. 6.25A		
	Output Power	Max. 150W		
	Output Power Range	0-150W		
	Overload Power Limitation	≥102%		
	Ripple & Noise	Ripple≤500mV , Noise≤500mV		
INPUT	AC Voltage Range	220-240Vac		
	DC Voltage Range	220-240Vdc(EMI needs to be evaluated after the luminaire is installed)		
	Frequency	50/60Hz		
	Input Current	Max. 0.75A/230Vac		
	Power Factor	PF > 0.97(at full load)		
	THD	THD < 10%(at full load)		
	Maximum input power	Max. 162W		
	Efficiency (Typ.)	93%		
	Inrush Current	Cold start 45A(Test twidth=350us tested under 50% Ipeak)/230Vac		
	Anti Surge	L-N: 2KV		
Leakage Current	Max. 0.5mA			
ENVIRONMENT	Working Temperature	ta: -20 ~ 45°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(0-45°C)		
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively		
PROTECTION	Overload Protection	Shut down the output when rated power≥102%, auto recovers		
	Overheat Protection	Intelligently adjust or turn off the output current if the PCB temperature ≥110°C, and recover automatically		
	Overvoltage Protection	Shut down the output when voltage≥30V, and recover automatically		
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically		
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac		
	Insulation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH		
	Safety Standards	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
		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
	EMC Emission	BIS	India	IS 15885 (PART 2)/SEC 13)
		CCC	China	GB/T17743, GB17625.1
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547
		KC	Korea	KN15, KN61547
		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	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.)	211g±10g		
	Dimensions	350×30×18mm(L×W×H)		

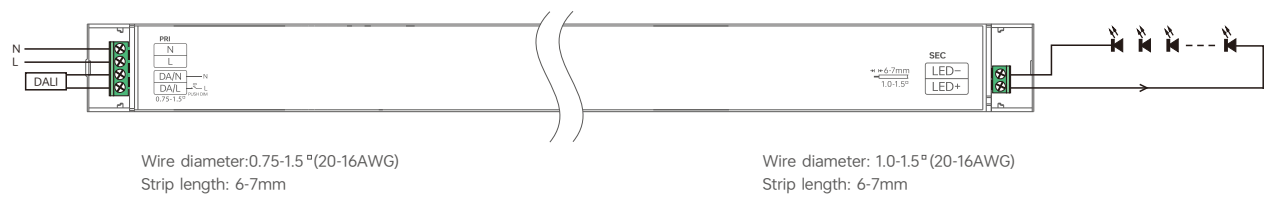
Product Size

Unit: mm

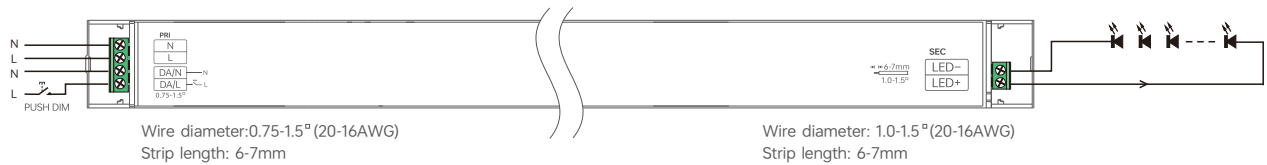


Wiring Diagram

DALI Connection



Push DIM Connection



Dimming interface priority: First 0-10V, next Push DIM

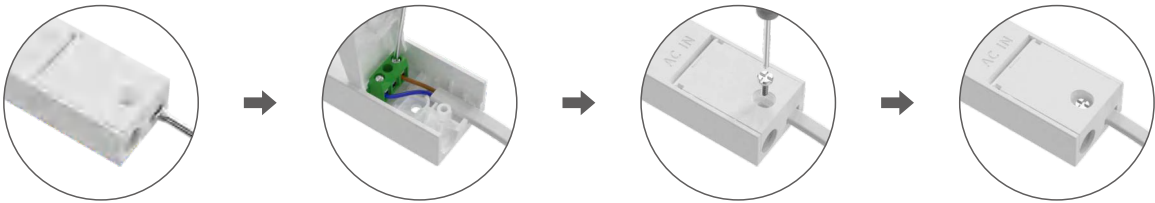
Operation Instructions



PUSH DIM

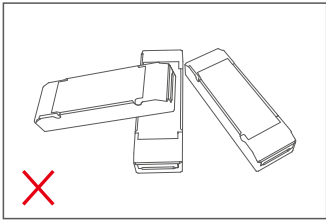
- Short press for on/off control.
- Long press: Adjust the current brightness.
- Dimming memory: When the light is switched on/off again, the light will resumes to the previously set brightness level.

Application Diagram of Protective Cover

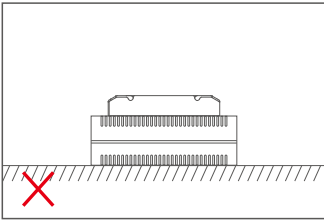
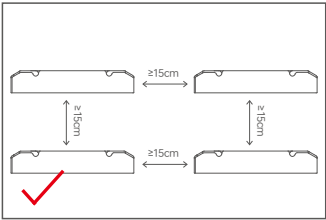


1. Put the head of the screwdriver at the cable entry to pry up the protective cover, then connect the wires as the wiring diagram shown.
2. After closing the protective cover, tighten the protective cover with the PA screws.

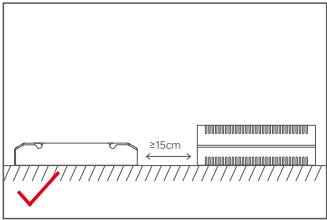
Installation Precautions



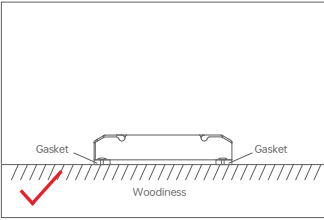
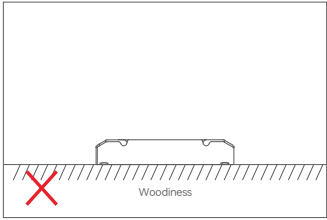
Please do not stack the products. The distance between two products should be $\geq 15\text{cm}$ so as not to affect heat dissipation or the lifetime of the products.



Please not place the products on power supplies. The distance between the product and the power supplies should be $\geq 15\text{cm}$ so as not to affect heat dissipation or shorten the lifetime of the products.

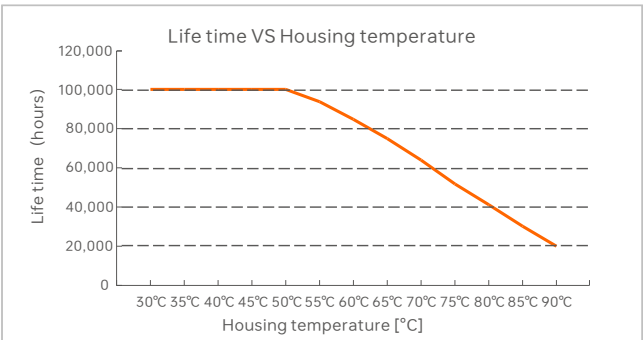
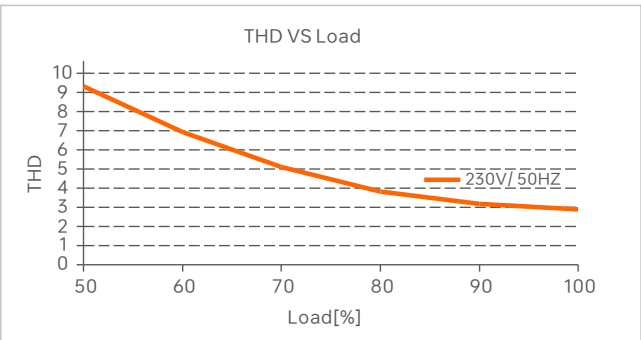
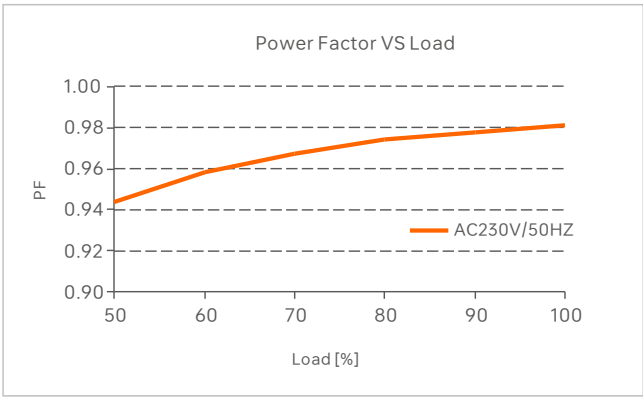
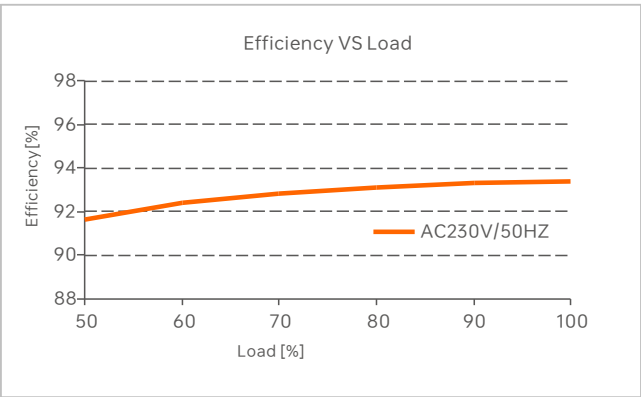


Note: The temperature within the installation area should be within the working temperature range of the products. Please do not install products inside LED fixtures to avoid temperature exceeding the working temperature that may affect the product lifetime.



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

Relationship Diagrams

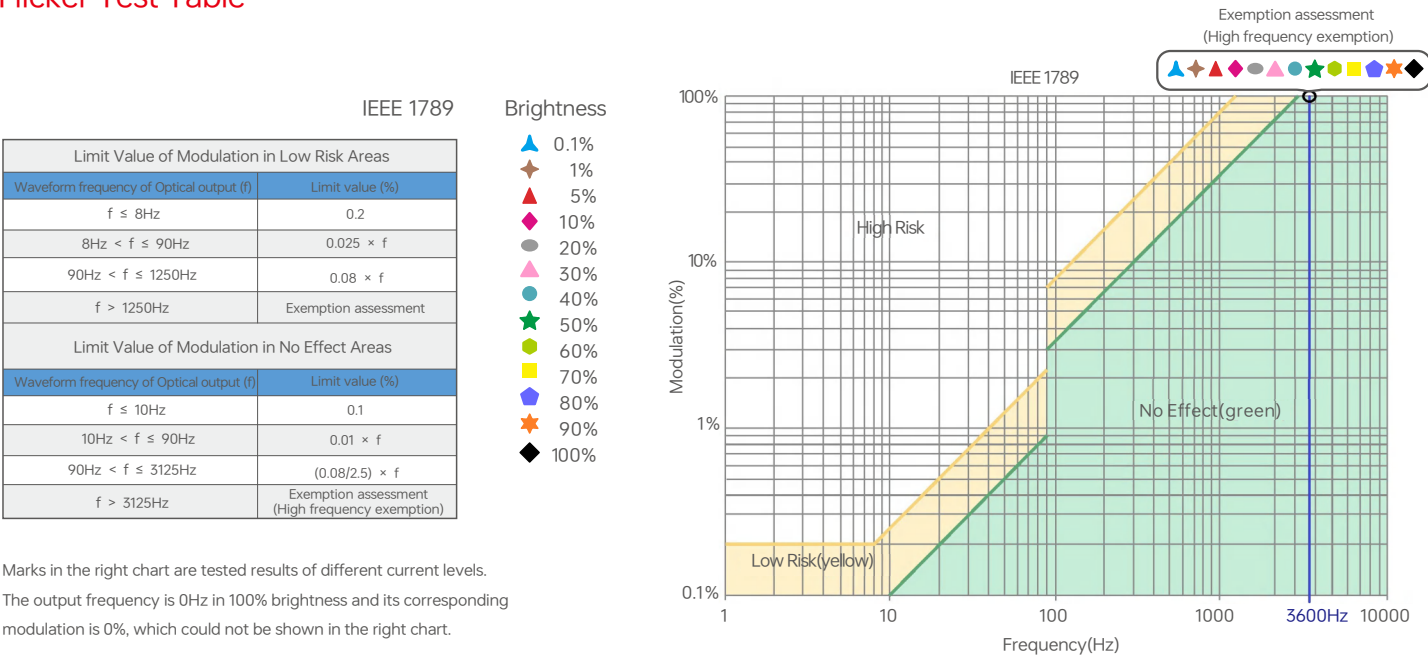


Surge Current & Corresponding Miniature Circuit Breaker (MCB) Load Capacity Table

MCB Model	B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
Maximum Load Capacity	4	5	6	8	11	7	9	11	14	18	9	11	15	20	26

- Remarks:
1. Test Conditions: Cold start 45A(Test twidth=350us tested under 50% lpeak)/230Vac
 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°C 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 Table



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 Content	Updated by
A0	2025.05.30	Original version	Li Haipeng

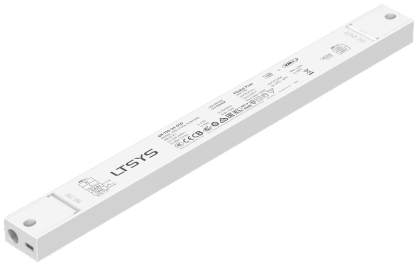
LED驱动器 (恒压型)

- 超薄体积；外壳采用PC阻燃V0级原料翻盖一体化
- 调光范围0-100%,LED从0.01%开始调
- 0-100%全程无频闪，高频豁免考核级别
- 高性能电源：效率93%、PF>0.97、THD<10%
- 符合欧盟能效ERP指令，空载、网络待机功耗<0.5W
- 创新的热管理技术，智能保护电源寿命
- 过温、过压、过载、短路保护，可自动恢复
- 适合室内Ⅰ、Ⅱ、Ⅲ类灯具应用
- 适用灯带、磁吸等室内照明
- 5年保修期



无频闪
IEEE 1789
高频豁免考核级别

Dimmable:
■■■■■■■■■■
1: 10000



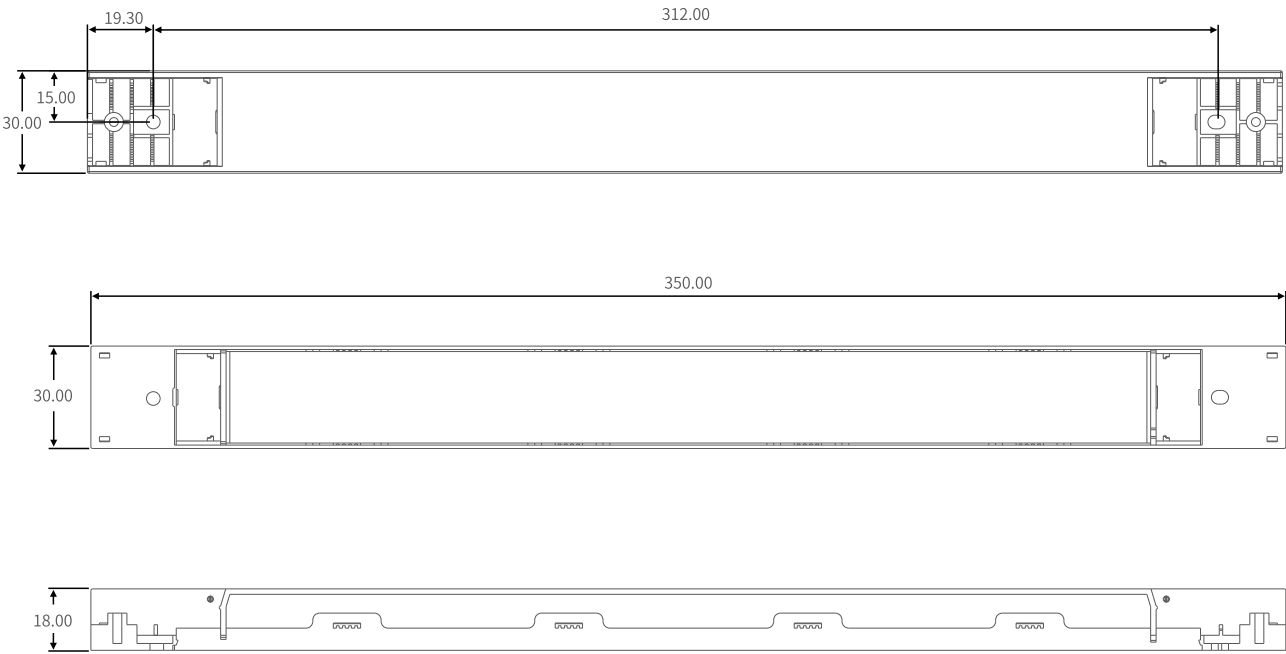
认证图标仅代表产品正在进行一系列的认证申请，认证资质以产品实物为准。

技术参数

型号		SN-150-24-G1D		
特征	输出类型	恒压		
	调光接口	DALI-2 DT6, PUSH DIM		
	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	24Vdc		
	输出电压范围	24Vdc±0.5Vdc		
	输出电流	Max. 6.25A		
	输出功率	Max. 150W		
	输出功率范围	0-150W		
	过功率限制	≥102%		
	纹波与噪声	纹波≤500mV, 噪声≤500mV		
输入	交流输入电压	220-240Vac		
	直流输入电压	220-240Vdc(EMI需配灯具后评估)		
	频率范围	50/60Hz		
	输入电流	Max. 0.75A/230Vac		
	功率因数	PF>0.97(满载)		
	总谐波失真THD	THD<10%(满载)		
	最大输入功率	Max. 162W		
	效率(Typ.)	93%		
	浪涌电流	冷启动45A (在50%Ipeak下测试twidth=350us)/230Vac		
	抗浪涌	L-N: 2KV		
	漏电流	Max. 0.5mA		
环境	工作温度	ta: -20 ~ 45°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(0-45°C)		
	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°C), 智能调节电流输出或关闭, 可自动恢复		
	过压保护	≥30V以上进入保护, 可自行恢复		
	短路保护	进入打嗝模式, 异常排除自动恢复		
安规和电磁规格	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, 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
		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
	电磁兼容发射	BIS	印度	IS 15885 (PART 2/SEC 13)
		CCC	中国	GB/T17743, GB17625.1
		CE	欧盟	EN55015, EN61000-3-2, EN61000-3-3, EN61547
		KC	韩国	KN15, KN61547
		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 (通过指令开关后)	
		空载功耗	<0.5W (不接灯具时)	
	频闪/频闪效应	IEEE 1789	满足无影响/高频豁免考核级别	
		CIE SVM	Pst LM≤1.0, SVM≤0.4	
	DF	相位因素	DF≥0.9	
其他	产品重量	211g±10g		
	产品尺寸	350×30×18mm(L×W×H)		

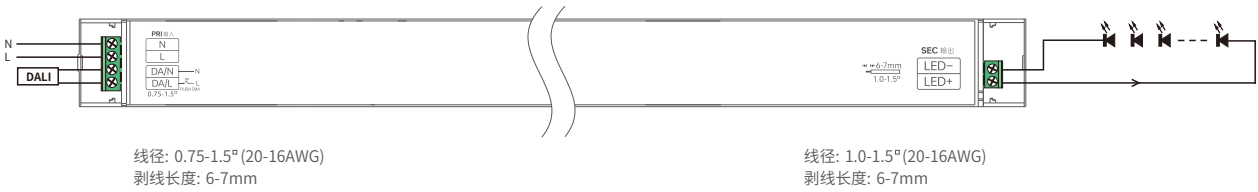
尺寸图

单位：mm

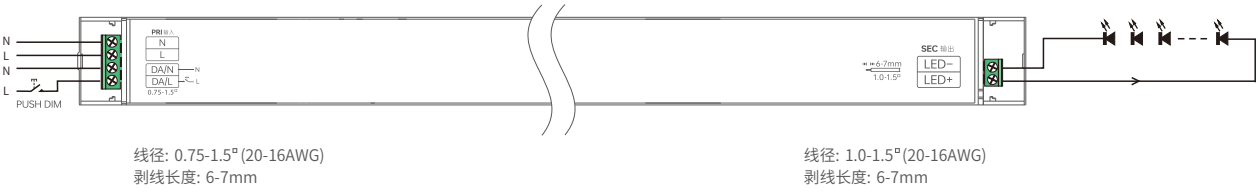


连接应用图

DALI 连接方式



Push DIM 连接方式



调光接口优先级为：首先DALI，然后Push DIM。

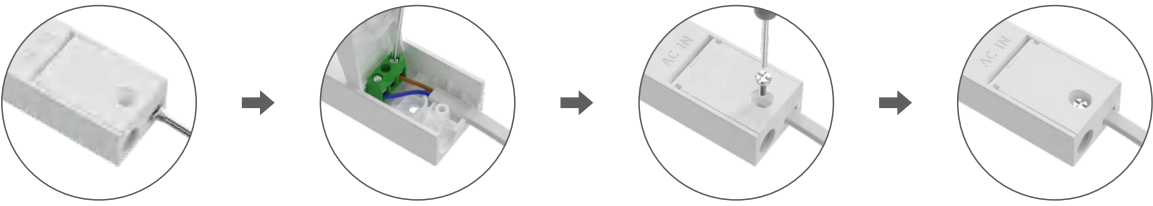
操作说明



复位开关

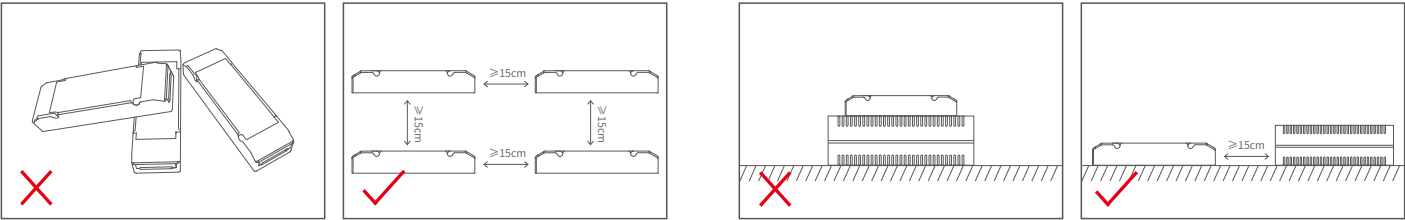
- 短按：开/关控制
- 长按：调节当前亮度
- 调光记忆：当再次开关时，灯光会回到先前调整的亮度水平

保护盖应用图



1. 在出线口使用螺丝批撬起保护盖后，按照接线图进行接线。
2. 扣合保护盖后，使用PA螺丝将保护盖拧紧即可。

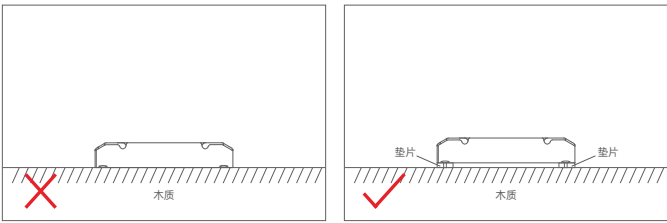
安装注意事项



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

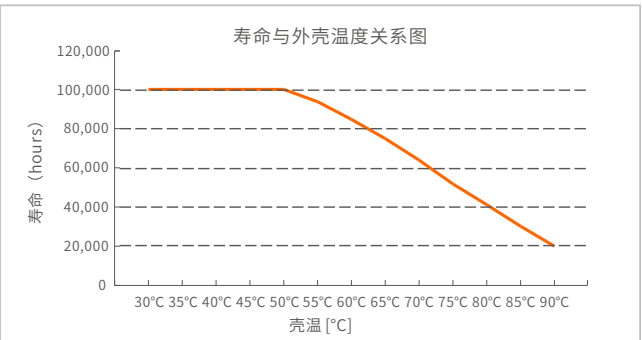
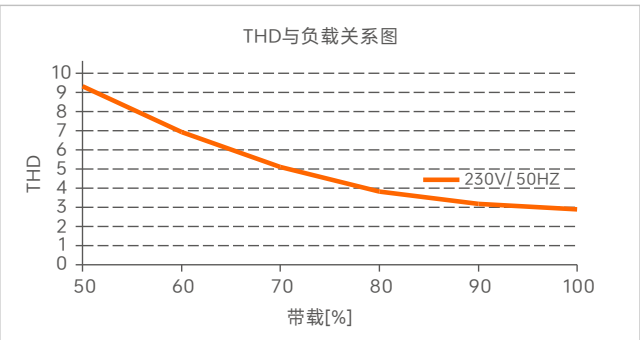
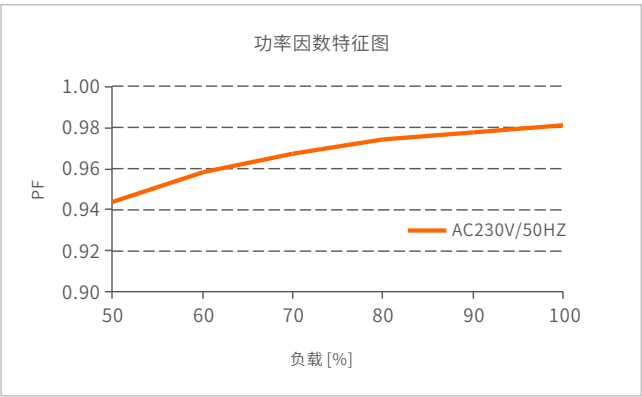
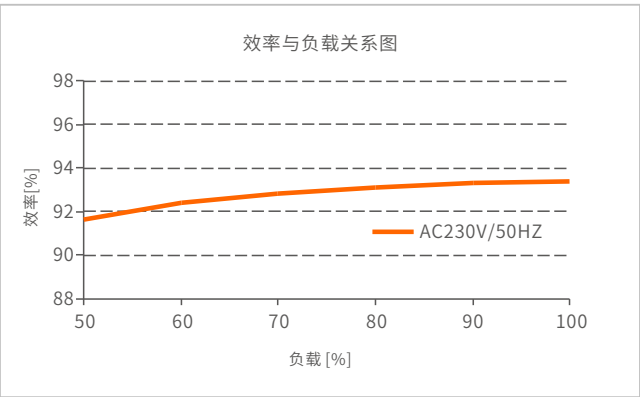
请勿将产品置于电源上方，与电源间隔距离应 $\geq 15\text{cm}$ ，避免影响产品散热而减少使用寿命。

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。



请勿将产品螺丝固定紧贴于木板，应在固定螺丝下增加 $\geq 7\text{mm}$ 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。

关系图表

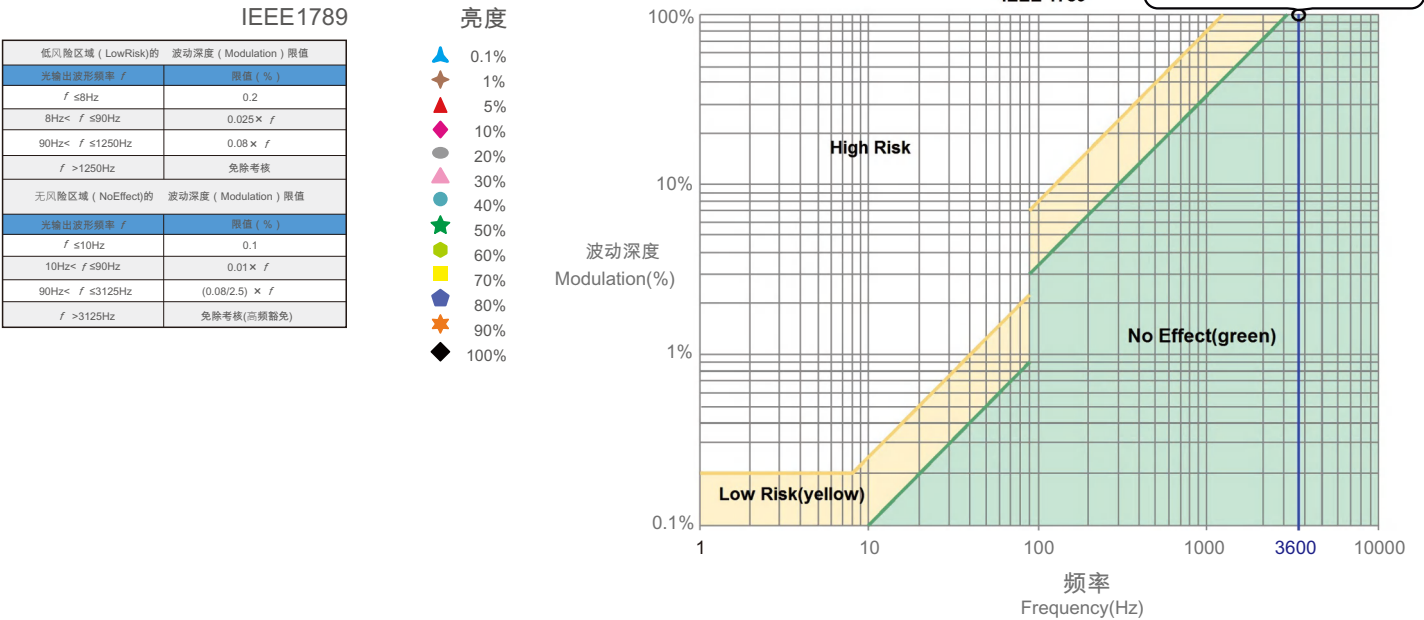


浪涌电流&对应的微型断路器(MCB)下挂载的数量对应表

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	4	5	6	8	11	7	9	11	14	18	9	11	15	20	26

- 备注:
1. 本数据测试条件：冷启动45A (在50%peak下测试twidth=350us)/230Vac；
 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



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）不能防水防雷，需避免日晒雨淋，如安装在户外，请用防水箱和防雷装置；
- 良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境；
- 请检查使用的工作电压是否符合产品的参数要求；
- 使用的电线直径大小必须能足够负载连接的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，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。

- 修理或更换是雷特对客户的最唯一补救措施。雷特不承担任何附带引起的损害赔偿任, 除非在适用法律范围之内。
- 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	2025.04.09	正稿	黎海鹏