

MT-100-250-D2D1 MT-300-450-D2D1 MT-500-650-D2D1

MT-100-250-D2D1
MT-300-450-D2D1
MT-500-650-D2D1

DALI

DALI Constant Current Driver

Special for magnetic & linear lamp

- No input polarity.
- DC to DC constant current output.
- DALI 2.0 protocol.
- Ultra-small size , suitable for STUCCHI standard housings.
- Magnetic installation is quiet without high-frequency sound.
- Smooth dimming curves without kicker.
- Short circuit, overload and anti-reverse protection.



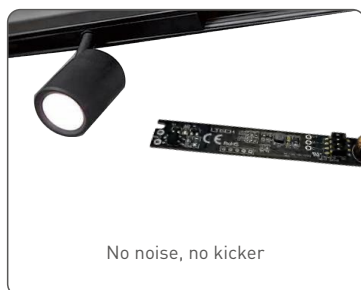
DIM/CT



Flicker-free
IEEE 1789



RoHS



Technical Specs

MODEL		MT-100-250-D2D1	MT-300-450-D2D1	MT-500-650-D2D1
OUTPUT	Output Voltage	9-45Vdc	9-42Vdc	9-39Vdc
	Output Current Range	100-250mA	300-450mA	500-650mA
	Output Power	0.9W-11.25W	2.7W-18.9W	4.5W-25.35W
	Current Accuracy	+15mA/-25mA	+15mA/-25mA	+5%
	Dimming Range	0-100% , down to 0.1%	0-100% , down to 0.1%	0-100% , down to 0.1%
	Channel	2	2	2
INPUT	Dimming Interface	DALI-2 DT8		
	Input Voltage	48Vdc±5% (No polarity)		
	Input Current	<0.28A	<0.57A	<0.65A
	Efficiency(Typ)	≥87%	≥87%	≥87%
	Standby Power	≤0.5W	≤0.5W	≤0.5W
ENVIRONMENT	Working Temperature	ta: -30~55°C tc: 87°C		
	Working Humidity	20~95%RH, non-condensing		
	Storage Temperature	-40~80°C, 10~95%RH		
PROTECTION	Overload Protection	The load voltage is out of range,the current drops until the power is turned on again.		
	Short Circuit Protection	Close output and automatically recover once the fault is removed.		
	No-load Protection	The product does not be damaged.		
	Hot Plug	Support electric plug plug.		
	Input Anti -reverse Protection	No input polarity , able to output normally.		
OTHERS	Dimensions	125×14×9.5mm (L×W×H)		
	Weight(G.W.)	12.5g±2g		
	Carton Size	370×290×190mm (L×W×H) ,240pcs/ctn 4.4kg±5%ctn		

Output Current Selection

* Please select the current through the DIP switch on the circuit board when the power is off.



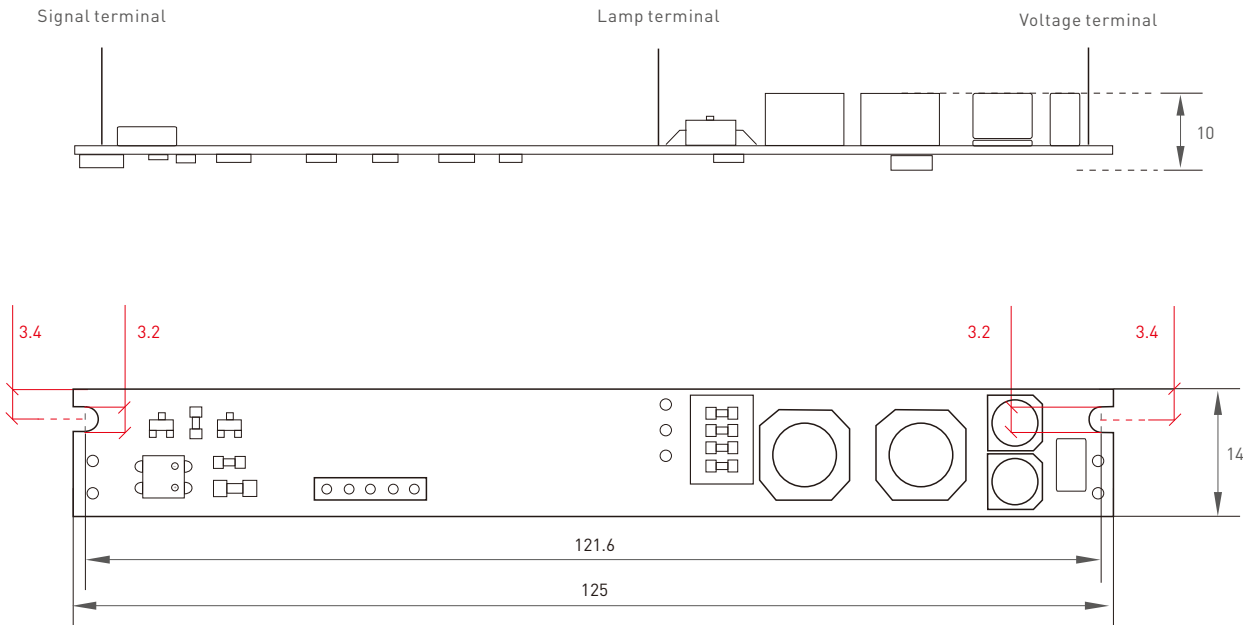
DIP Switch		⬇⬇⬇⬇	⬇⬆⬆⬆	⬆⬆⬆⬇	⬆⬆⬆⬆	⬆ ⬇ ON OFF
MT-100-250-D2D1	Output Current	100mA	150mA	200mA	250mA	
	Output Voltage	9-45Vdc	9-45Vdc	9-45Vdc	9-45Vdc	
	Output Power	0.9W-4.5W	1.35W-6.75W	1.8W-9W	2.25W-11.25W	

DIP Switch		⬇⬇⬇⬇	⬇⬆⬆⬆	⬆⬆⬆⬇	⬆⬆⬆⬆	⬆ ⬇ ON OFF
MT-300-450-D2D1	Output Current	300mA	350mA	400mA	450mA	
	Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	
	Output Power	2.7W-12.6W	3.15W-14.7W	3.6W-16.8W	4.05W-18.9W	

DIP Switch		⬇⬇⬇⬇	⬇⬆⬆⬆	⬆⬆⬆⬇	⬆⬆⬆⬆	⬆ ⬇ ON OFF
MT-500-650-D2D1	Output Current	500mA	550mA	600mA	650mA	
	Output Voltage	9-39Vdc	9-39Vdc	9-39Vdc	9-39Vdc	
	Output Power	4.5W-19.5W	4.95W-21.45W	5.4W-23.4W	5.85W-25.35W	

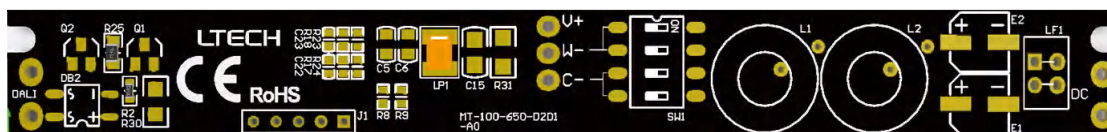
Dimensions

Unit:mm



Terminal description

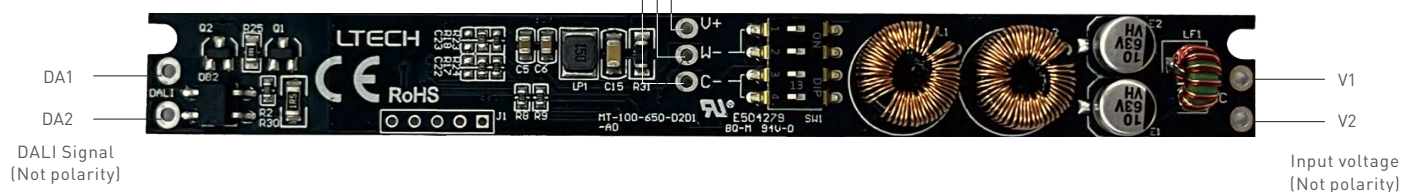
PCB board



Main view

LED lamps Connection

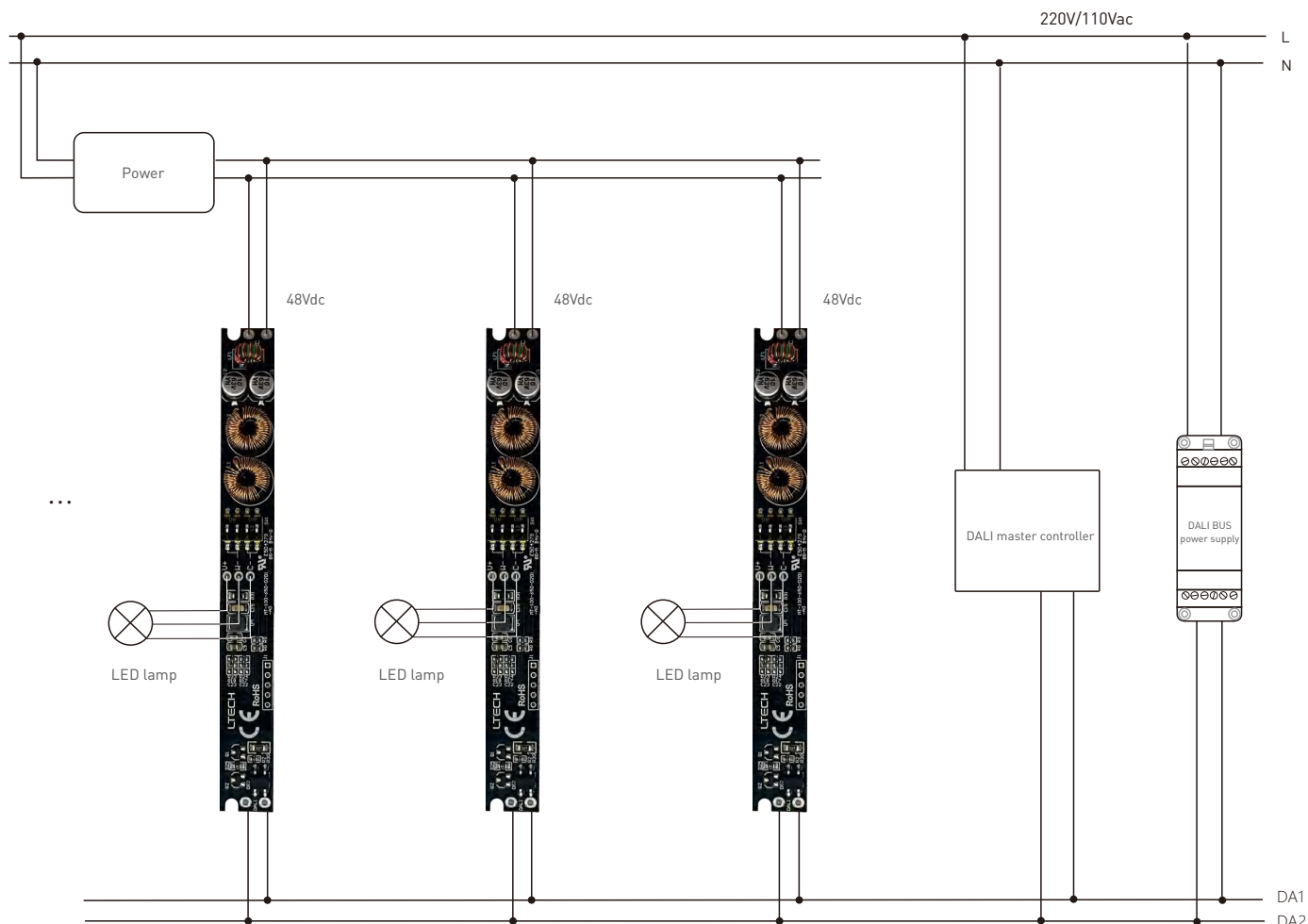
C W LED+



Side view



Wiring Diagram



Attentions

- Products shall be installed by qualified professionals.
- LTECH products are 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 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	2023.04.13	Original version.	Yang Weiling

MT-100-250-D2D1
MT-300-450-D2D1
MT-500-650-D2D1

DALI恒流驱动器
磁吸灯/线条灯专用

- 输入不分正负极
- DC to DC恒流输出
- DALI-2 标准协议
- 超小体积设计，适用于STUCCHI标准外壳
- 磁吸安装应用安静无高频干扰声
- 调光曲线平滑、无闪烁
- 短路，过载、防反接保护



调光调色温



Flicker-free
IEEE 1789



RoHS



无噪音，无频闪



适用于STUCCHI标准外壳
- 9519-166-K
- B 9519-166-K/W



安装分解图

技术参数

型号		MT-100-250-D2D1	MT-300-450-D2D1	MT-500-650-D2D1
输出	输出电压	9-45Vdc	9-42Vdc	9-39Vdc
	工作电流范围	100-250mA	300-450mA	500-650mA
	负载功率范围	0.9W-11.25W	2.7W-18.9W	4.5W-25.35W
	电流精度	+15mA/-25mA	+15mA/-25mA	+5%
	调光范围	0-100%，调光深度0.1%	0-100%，调光深度0.1%	0-100%，调光深度0.1%
	通道	2	2	2
输入	调光接口	DALI-2 DT8		
	输入电压	48Vdc±5% (输入不分正负)		
	输入电流	<0.28A	<0.57A	<0.65A
	效率(Typ)	≥87%	≥87%	≥87%
	待机功耗	≤0.5W	≤0.5W	≤0.5W
环境	工作温度	ta: -30~55°C tc: 87°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	过载保护	负载电压超范围, 电流下降, 故障移除自动恢复		
	短路保护	输出关闭, 故障移除自恢复		
	空载保护	产品不损坏		
	热插拔	支持带电热拔插		
	输入防反接保护	输入不分正负, 都可正常输出		
其他	产品尺寸	125×14×9.5mm (L×W×H)		
	产品重量	12.5g±2g		
	外箱尺寸	370×290×190mm(L×W×H) 240个/箱 4.4kg±5%箱		

输出电流选择

注：请在断电情况下，通过在电路板上的DIP开关选择电流。



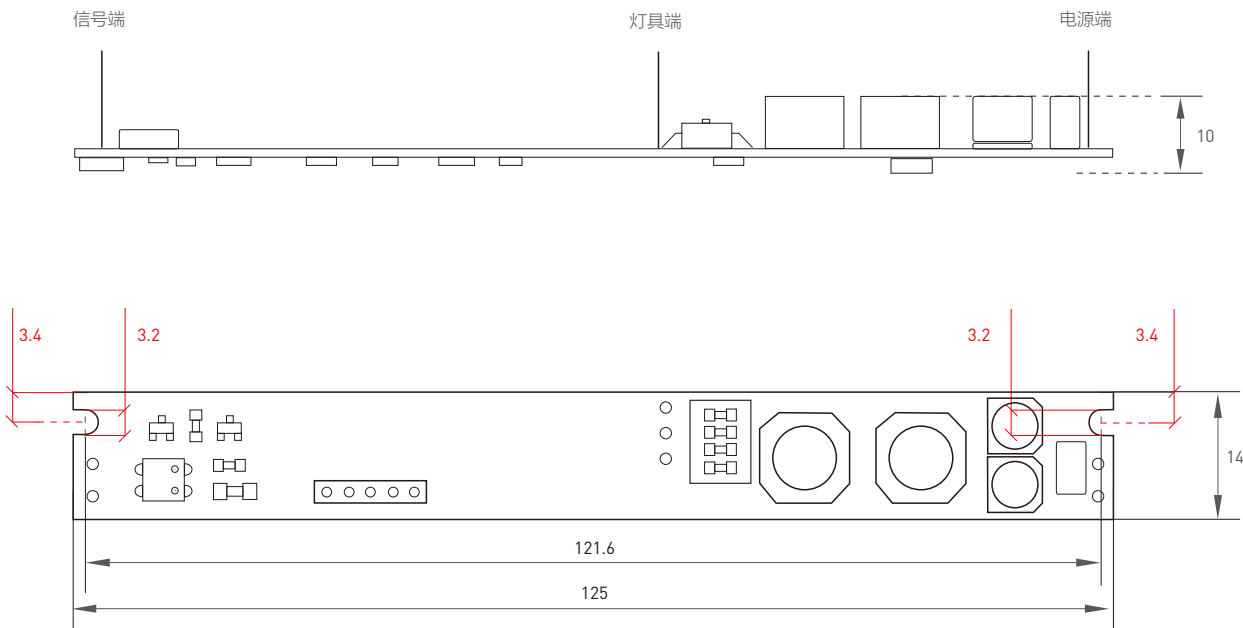
DIP开关						 ON OFF
MT-100-250-D2D1	电流输出	100mA	150mA	200mA	250mA	
	电压输出	9-45Vdc	9-45Vdc	9-45Vdc	9-45Vdc	
	功率输出	0.9W-4.5W	1.35W-6.75W	1.8W-9W	2.25W-11.25W	

DIP开关						 ON OFF
MT-300-450-D2D1	电流输出	300mA	350mA	400mA	450mA	
	电压输出	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	
	功率输出	2.7W-12.6W	3.15W-14.7W	3.6W-16.8W	4.05W-18.9W	

DIP开关						 ON OFF
MT-500-650-D2D1	电流输出	500mA	550mA	600mA	650mA	
	电压输出	9-39Vdc	9-39Vdc	9-39Vdc	9-39Vdc	
	功率输出	4.5W-19.5W	4.95W-21.45W	5.4W-23.4W	5.85W-25.35W	

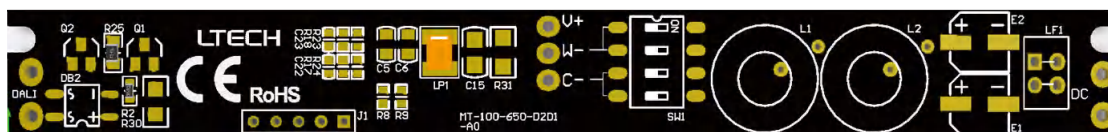
产品尺寸

单位：mm

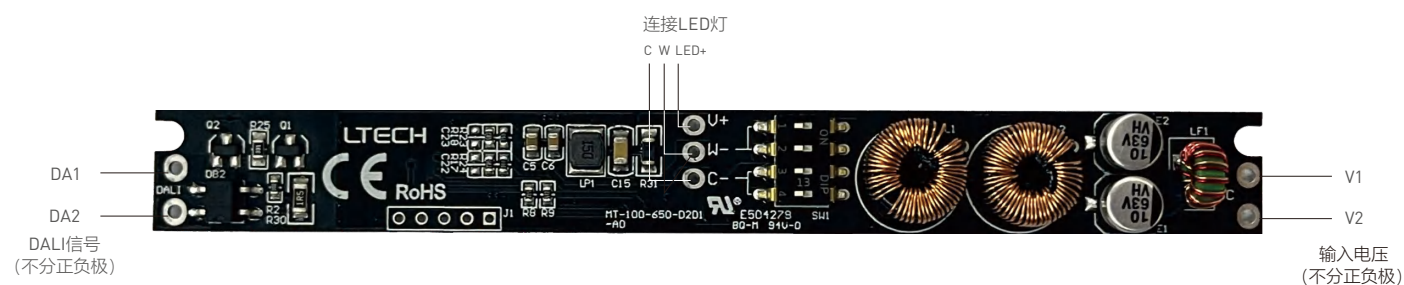


端子描述

PCB板



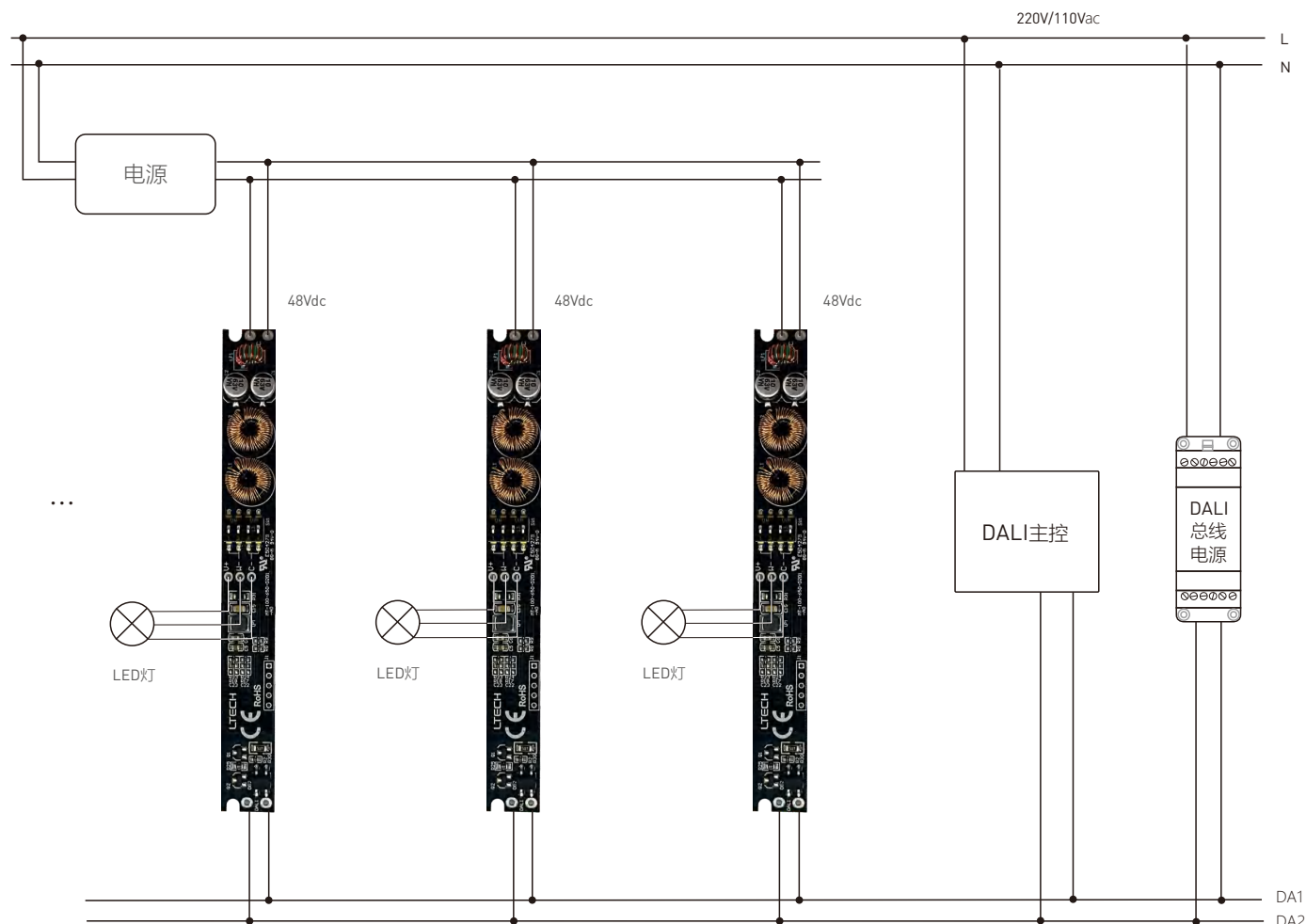
主视图



侧视图



连线示意图



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	2023.04.04	正稿	杨魏玲