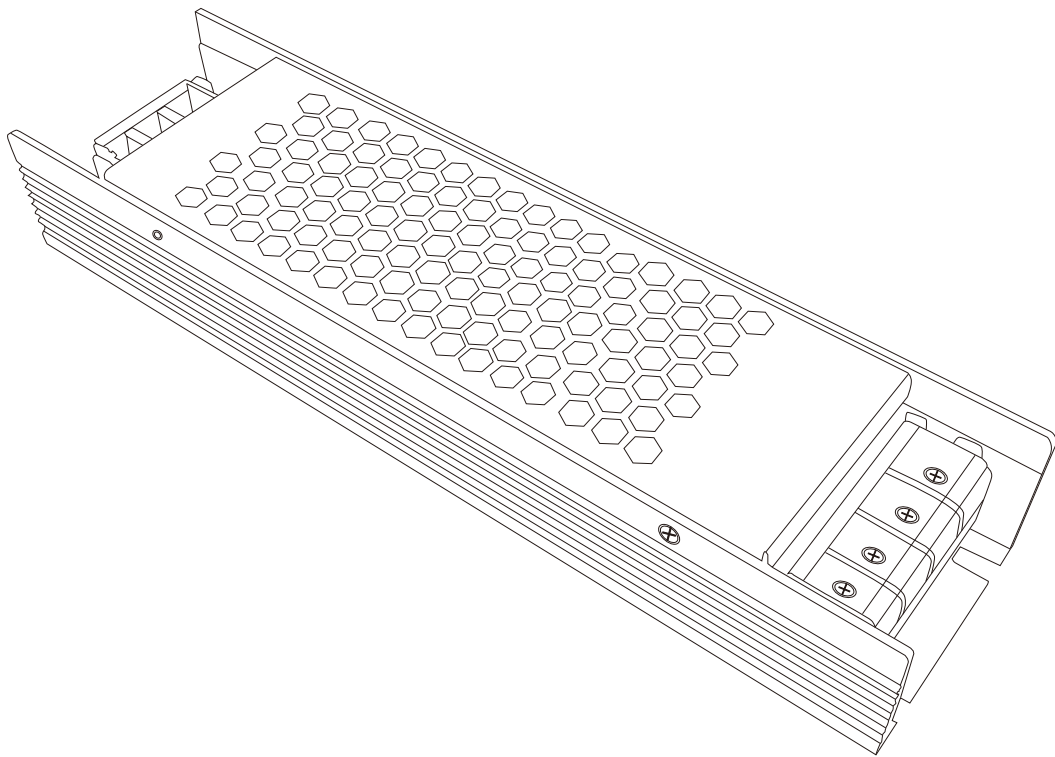


JISIM[®]

Product Instruction



Dimming LED Driver
VS series

Product introduction

JISIM VS is a series of constant voltage mode output 12 / 24V dimming drivers. This series of drivers Designed from 60-250W to meet the needs of constant voltage lamps with different power; this series of drivers support phase-cut dimming And 1-10V dimming, suitable for constant voltage light strips and strips, widely used in home, Commercial, hotel, office and other high-end places.

Product Features

- ★ Support leading edge and trailing edge TRIAC dimming and 0 / 1-10V dimming;
- ★ Constant voltage output 12V or 24V, high output voltage accuracy;
- ★ The dimming curve is smooth without flicker and flicker;
- ★ 0-100% dimming depth;
- ★ The power supply has short circuit, over current, over voltage, and over temperature protection functions;
- ★ Compatible with intelligent dimming system modules of major brands;
- ★ No noise, no flicker;
- ★ Good heat dissipation performance;
- ★ Suitable for indoor lighting fixtures such as low-voltage LED strips, rigid light bars;

Model type

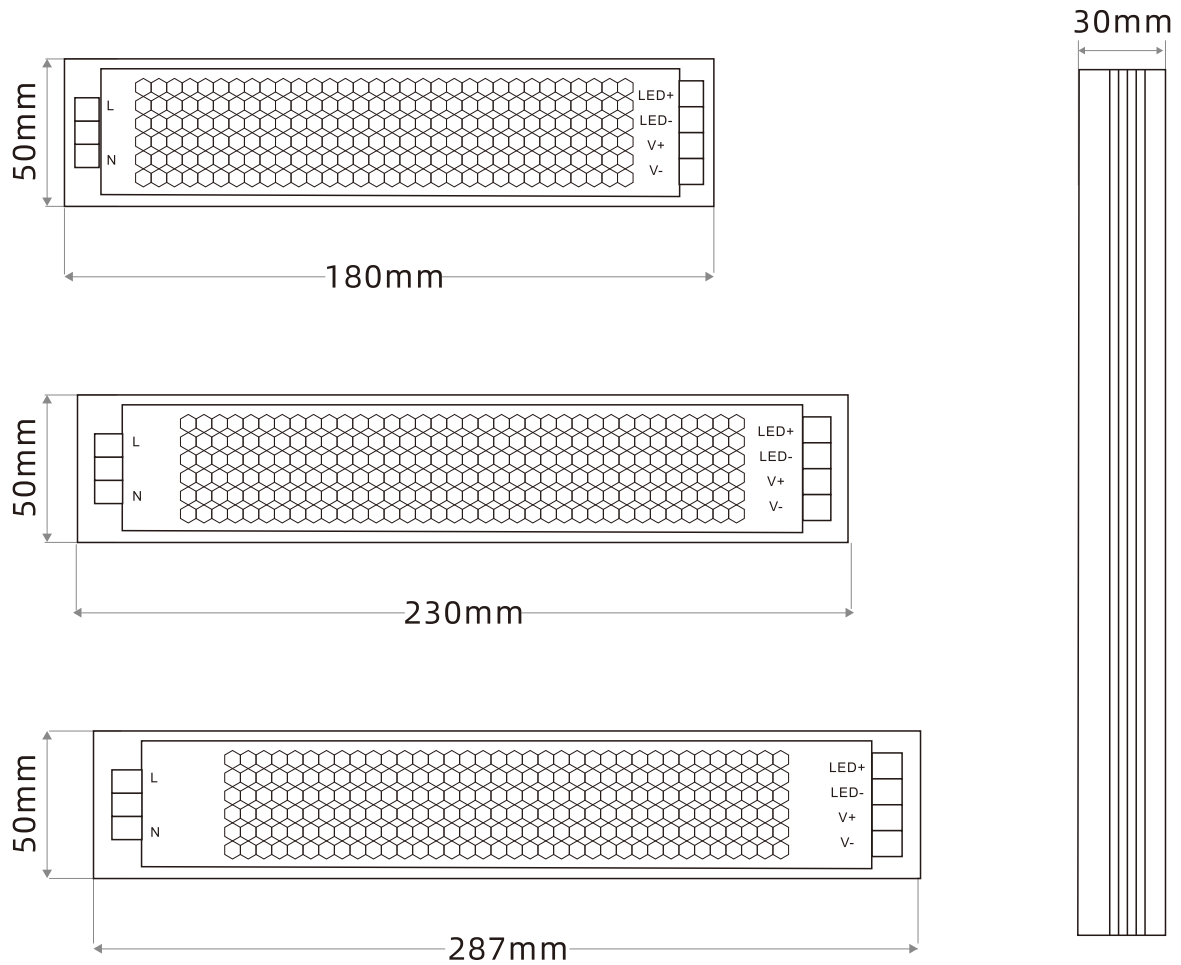


Model	Output Power	Input voltage	Output voltage	Output current	Power Factor	Efficiency
SM-FCVSF0060012	60W	220-240V	12V	5A	< 0.6@ 230Vac full load	≥80%@ 230Vac full load
SM-FCVSF0100012	100W			8.3A		
SM-FCVSF0150012	150W			12.5A		
SM-FCVSF0200012	200W			16.6A		
SM-FCVSF0250012	250W			20.8A		
SM-FCVSF0060024	60W		24V	2.5A		
SM-FCVSF0100024	100W			4.16A		
SM-FCVSF0150024	150W			6.25A		
SM-FCVSF0200024	200W			8.3A		
SM-FCVSF0250024	250W			10.4A		

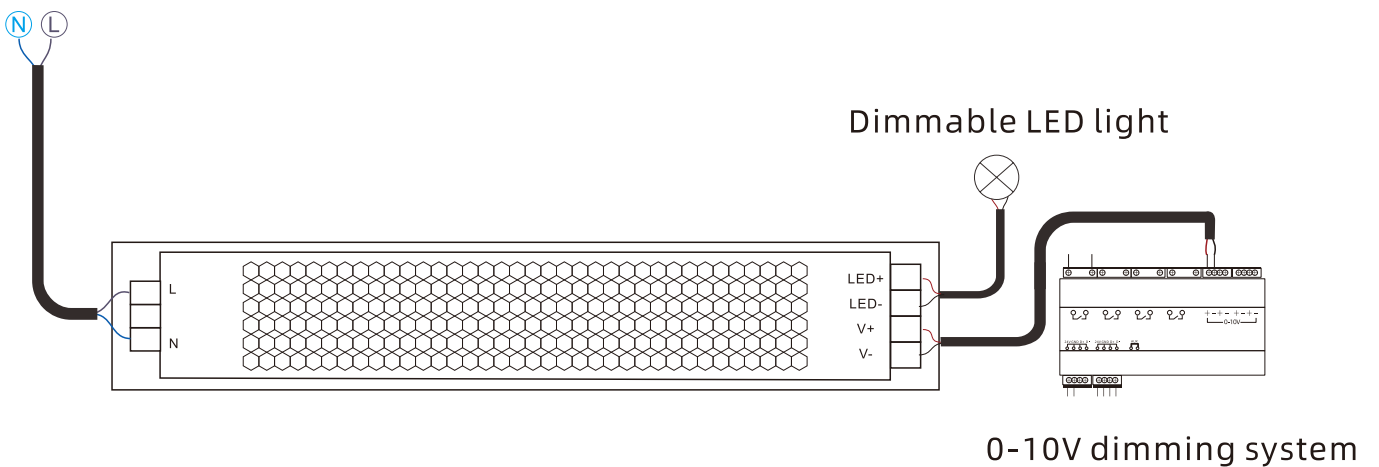
Technical Parameters

Dimming interface	Phase-cut dimming / 0-10V dimming / 1-10V dimming
Dimming interface current	< 500uA
Input voltage	220-240Vac
Frequency	47-63Hz
Input Current	0.6A Max@230Vacfull load SM-FCVSF0060012/24 1.0A Max@230Vacfull load SM-FCVSF0100012/24 1.5A Max@230Vacfull load SM-FCVSF0150012/24 2.0A Max@230Vacfull load SM-FCVSF0200012/24 2.5A Max@230Vacfull load SM-FCVSF0250012/24
Standby power	≤0.8W
Inrush current	Cold test <60A@230V 50Hz
Leakage current	< 1mA@230Vac
Start time	< 500ms@230Vac
Ripple & Noise	150mV
Current accuracy	±5%
Linear adjustment	±0.5%
Load Regulation	±0.5%
Dimming range	0-100%
Protective function	Over current protection, short circuit protection over temperature protection, over voltage protection
Working temperature	-20~+45°C
Working humidity	20~95%RH
Storage Temp Humidity	-40~80°C, 5-95% RH
Max case temperature	75°C
Protection class	IP20
Warranty	2years
Withstand Voltage	I/P-O/P:2.5KVac I/P-FG:2KVac O/P-PG:0.5KVac
Insulation resistance	I/P-O/P,I/P-FG,O/P-PG:100M Ω/500VDC/25°C/70%RH
Safety standards	IEC/EN 62368-1
weight	214g@60W;272g@100W;370g@150W; 434g@200W;423g@250W
Product Size	180*50*30mm@60W; 230*50*30mm@100W; 287*50*30mm@150W/200W/250W
Package dimensions	240*55*35mm@60W/100W 290*55*33mm@150/200W/250W

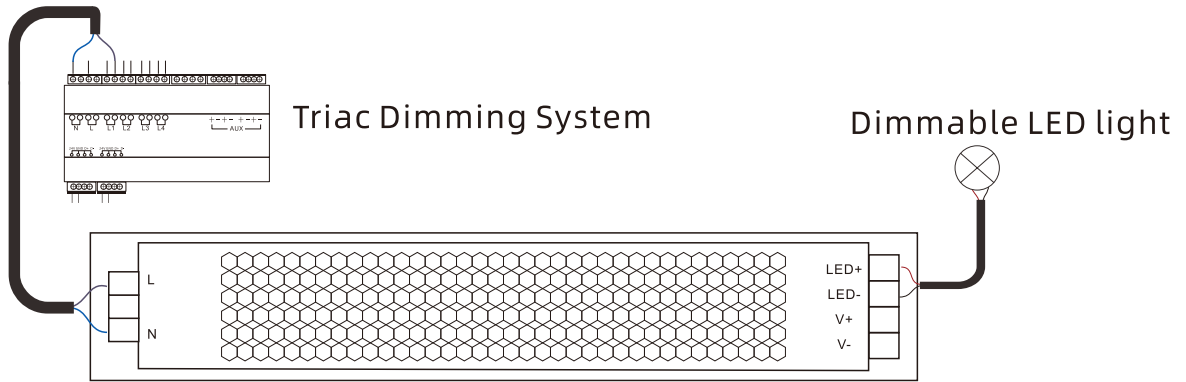
Size



0/1-10V Instructions



Triac Dimming Wiring Diagram



Malfunctions analysis & troubleshooting

Problems encountered	The solution
No light	<ol style="list-style-type: none"> 1. Check whether the input voltage is normal and whether there is mains voltage input; if there is, check whether the connected TRIAC dimmer / dimming system is connected correctly or check whether the input line is well connected; 2. There is normal voltage input at the drive input terminal. Check whether the driver output cable is connected properly. Check whether the output light bar is positive or negative. Check whether there is voltage across the dimming pin. / The dimming system turns off the dimming signal;
Not dimmable	<ol style="list-style-type: none"> 1. Check thyristor / dimmer system, 0 / 1-10V dimmer / Whether the system is connected properly;

产品简介

JISIM仟思盟VS是一系列恒压模式输出12/24V的调光驱动器，该系列驱动器设计从60-250W以满足不同功率的恒压灯具需求;该系列驱动器支持切相调光和1-10V调光，适用于恒压灯带和灯条，配合各种智能控制系统广泛用于家居、商业、酒店、办公等高端场所。

产品特性

- ★ 支持前沿后沿可控硅调光和0/1-10V调光;
- ★ 恒压输出12V或24V，输出电压精度高;
- ★ 调光曲线平滑无抖动，无闪烁;
- ★ 0-100%调光深度;
- ★ 电源具有短路、过流、过压、过温保护功能;
- ★ 兼容各大品牌智能调光系统模块;
- ★ 无噪声，无频闪;
- ★ 散热性能良好;
- ★ 适用于LED低压灯带、硬灯条等室内照明灯具;

型号规格

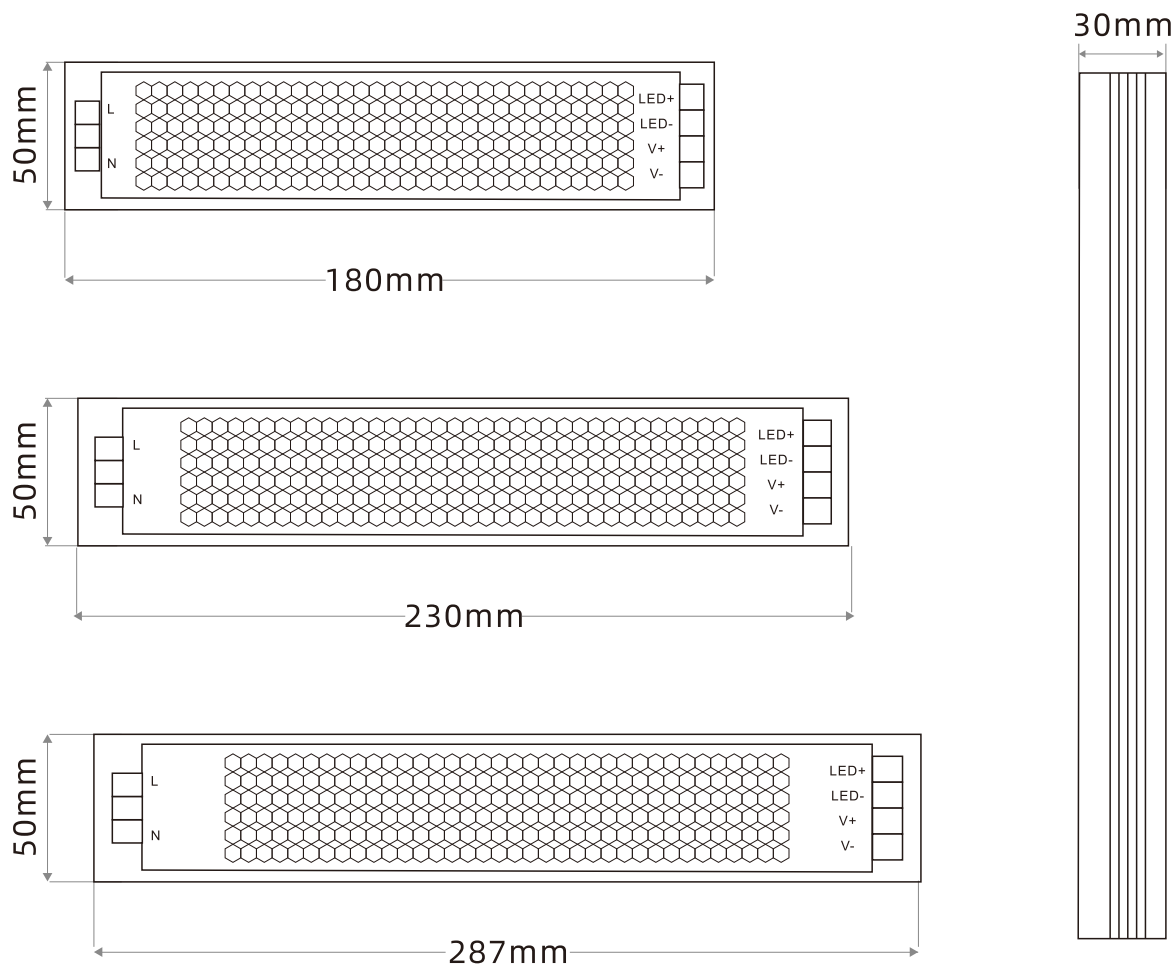


型号	输出功率	输入电压	输出电压	输出电流	功率因素	效率
SM-FCVSF0060012	60W	220-240V	12V	5A	< 0.6@ 230V满载	≥80%@ 230V满载
SM-FCVSF0100012	100W			8.3A		
SM-FCVSF0150012	150W			12.5A		
SM-FCVSF0200012	200W			16.6A		
SM-FCVSF0250012	250W			20.8A		
SM-FCVSF0060024	60W		24V	2.5A		
SM-FCVSF0100024	100W			4.16A		
SM-FCVSF0150024	150W			6.25A		
SM-FCVSF0200024	200W			8.3A		
SM-FCVSF0250024	250W			10.4A		

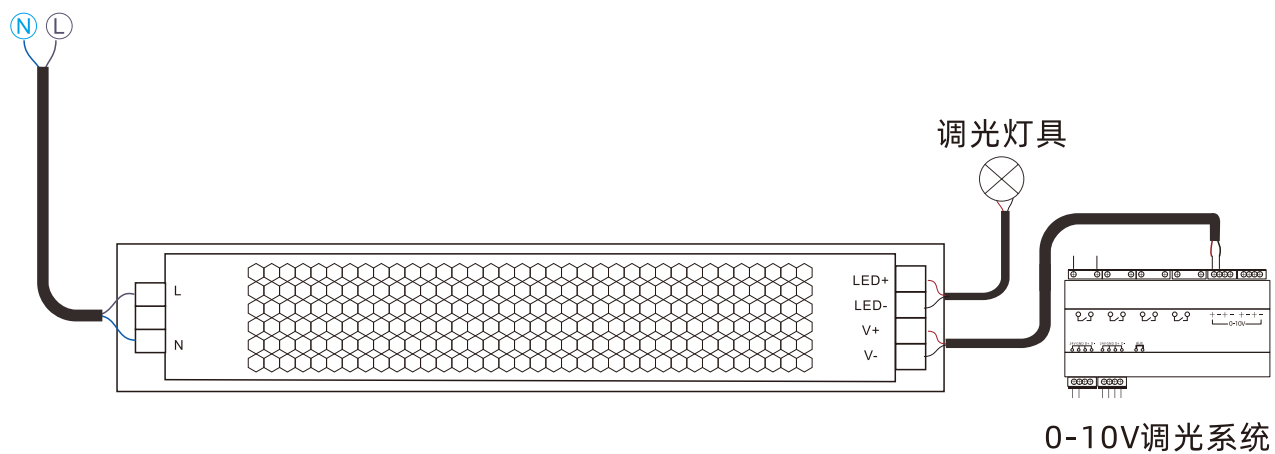
技术参数

调光接口	切相调光/0-10V调光/1-10V调光
调光接口电流	< 500uA
输入电压	220-240Vac
工作频率	47-63Hz
输入电流	0.6A Max@230V满载 SM-FCVSF0060012/24 1.0A Max@230V满载 SM-FCVSF0100012/24 1.5A Max@230V满载 SM-FCVSF0150012/24 2.0A Max@230V满载 SM-FCVSF0200012/24 2.5A Max@230V满载 SM-FCVSF0250012/24
待机功耗	≤0.8W
浪涌电流	冷机下测试60A@230Vac50Hz
漏电流	< 1mA@230Vac
开机时间	< 500ms@230Vac
纹波与噪声	150mV
电压精度	±5%
线性调整率	±0.5%
负载调整率	±0.5%
调光范围	0-100%
保护功能	过流保护, 短路保护, 过温保护, 过压保护
工作温度	-20~+45°C
工作湿度	20~95%RH
储存温度/湿度	-40~80°C,5-95% RH
最高壳温	75°C
防护等级	IP20
寿命	二年
耐压	I/P-O/P:2.5KVac I/P-FG:2KVac O/P-PG:0.5KVac
绝缘阻抗	I/P-O/P,I/P-FG,O/P-PG:100M Ω/500VDC/25°C/70%RH
安规标准	IEC/EN 62368-1
重量	214g@60W;272g@100W;370g@150W 434g@200W;423g@250W
产品尺寸	180*50*30mm@60W; 230*50*30mm@100W; 287*50*30mm@150W/200W/250W
包装尺寸	240*55*35mm@60W/100W 290*55*33mm@150/200W/250W

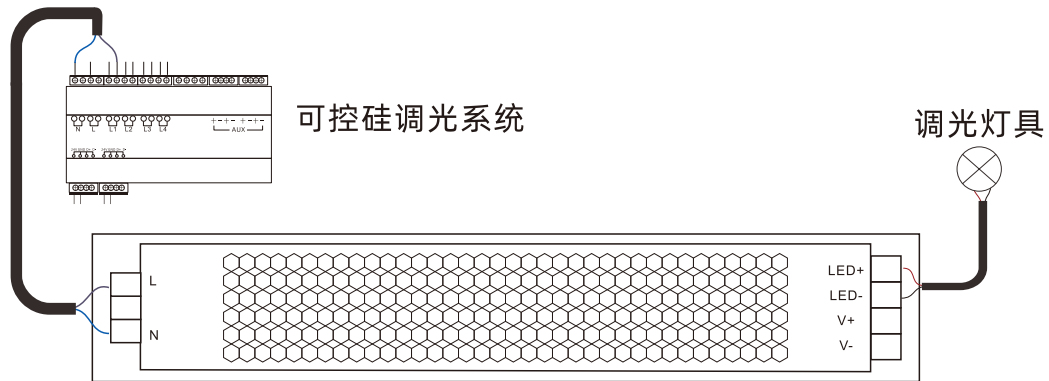
尺寸图



0/1-10V接线图



可控硅调光接线图



故障分析和故障排除

遇到的问题	解决的方法
灯不亮	<ol style="list-style-type: none">1. 检查输入电压是否正常，是否有市电电压输入；如果有检查接入的可控硅调光器/调光系统是否接线正确或检查输入线是否接线良好；2. 驱动输入端有正常电压输入，检查驱动器输出线是否接好，输出灯条正负是否接反，检查调光脚两端是否有电压，没有电压检查是否是0/1-10V调光器/调光系统关闭调光信号；
驱动器不能调光	<ol style="list-style-type: none">1、检查可控硅调光器/调光系统，0/1-10V调光器/系统是否连接正确；

注意事项

- ★ 本产品请由具有专业资格的人员进行调试安装，安装前请仔细阅读产品说明书。
- ★ 本产品不能防水，需避免日晒雨淋，如安装在户外，请用防水箱。
- ★ 严禁将电源放置在高温的环境下工作，安装时严禁在电源上覆盖物品；
在环境温度超过50°C时电源驱动需要降低功率使用；
- ★ 请检查使用的LED调光驱动器的各项参数，是否符合产品应用要求。
- ★ 出于安全考虑，根据所选电源输入输出电流，推荐按照1mm²的铜线走4-5A电流
选择合适的PVC或橡胶线缆，并确保接线牢固，以免电线过热或接触不良触
发事故。扁平电源线不适用。
- ★ 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。
- ★ 本说明书仅供参考，请以产品实物为准，本产品如有更改恕不另行通知。
- ★ 本产品不得带电操作，请由具有专业资格的人员进行调试安装，安装前请仔细阅
读产品说明书。



www.jisim-tech.com

Made in China

