

Product introduction

JISIM Qian Simeng ASP is a series of constant current LED intelligent dimming drivers, which can be easily set by DIP switches Set 4 output current. ASP is a three-in-one dimming series (0/1-10V voltage signal, adjustable resistance, PWM signal), It can be controlled by external signal to achieve smooth dimming; When no external signal is connected, it can be used as a conventional driver; Applicable to LED downlights, rail lights, flat panel lights, ceiling lights, and various intelligent control systems are widely used in home, Commercial, hotel, office and other high-end smart places.



Product Features






- . ASP supports three-in-one dimming (0/1-10V voltage signal, adjustable resistance, PWM signal)
- . Dimming signal isolation, low current consumption and no interference between each other
- . 0-100% depth dimming
- . No strobe, smooth dimming curve
- . Optional output current dial code
- . Built-in active PFC function
- . Efficiency 12W > 82%, 20W 28W > 85%
- . Multi-lamp synchronous dimming function
- . Complies with international safety standards



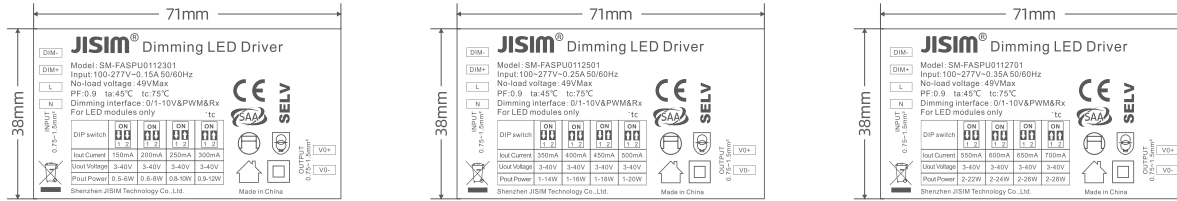
Technical Parameters

| | Model | SM-FASPU0112301 | SM-FASPU0112501 | SM-FASPU0112701 |
|--------------------------------------|--|--|--|--|
| Input | Voltage | 100-277Vac | 100-277Vac | 100-277Vac |
| | Frequency | 50/60Hz | | |
| | Current | 0.07A Max@12W/230V full load 0.14A Max@12W/120V full load | 0.11A Max@20W/230V full load 0.22A Max@20W/120V full load | 0.15A Max@28W/230V full load 0.30A Max@28W/120V full load |
| | Power Factor | 0.9@230Vac full load | 0.9@230Vac full load | 0.95@230Vac full load |
| | Efficiency | ≥82%@230Vac full load | ≥82%@230Vac full load | ≥85%@230Vac full load |
| | Leakage current | <0.5mA/230Vac | | |
| | Standby power | 0.6W | | |
| | Inrush current | Test under cold machine < 20A @ 230V 50HZ | | |
| | Control surge capability | L-N: 1kV | | |
| Output | Current/Voltage/Power | 300mA/3-40V/12W | 500mA/3-40V/20W | 700mA/3-40V/28W |
| | Current accuracy | ±5% | | |
| | Strobe level | High frequency exemption | | |
| | Max Output Voltage | 49V Max | | |
| | Start time | < 500ms@230Vac | | |
| | Ripple & Noise | < 200mV | | |
| | Dimming interface current | < 500uA | | |
| | PWM frequency | 0.5-5KHz, PWM high voltage 3.2-10V | | |
| Function & Protection | Dimming interface | 0-10V_1-10V_R100K_PWM | | |
| | Dimming range | 0-100% | | |
| | Protective function | Short circuit, open circuit, over temperature | | |
| | Protection class | IP20 | | |
| surroundings | temperature/humidity | -20-+45°C, 20-95%RH | | |
| | Storage Temp/Humidity | -40-80°C, 5-95% RH | | |
| | Max case temperature | 75°C | | |
| Safety electromagnetic compatibility | Withstand Voltage | I/P-O/P: 3750V 60S 5mA | | |
| | Insulation resistance | I/P-O/P: 100MΩ/500VDC/25°C/70%RH | | |
| | Safety standards | EN61347-1:2015, EN61347-2-13:2014+A1:2017 | | |
| | Electromagnetic compatibility emission | EN55015, EN61000-3-2 Class C, IEC61000-3-3 | | |
| | Strobe/DALI standard | IEEE1789, IEC62386 | | |
| | MTBF | 250000h@full load 25°C | | |
| specification | ize/packaging/weight | 115*41*28mm, 80g@12W/100g@20W/110g@28W | | |

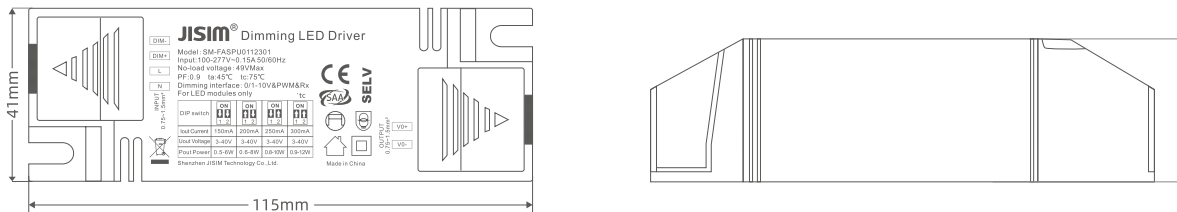
Parameter setting

|  | SM-FASPU0112301 | | SM-FASPU0112501 | | SM-FASPU0112701 | |
|---|-----------------|--------------|-----------------|--------------|-----------------|--------------|
| | Output current | Output Power | Output current | Output Power | Output current | Output Power |
|  | 150mA | 6W | 350mA | 14W | 550mA | 22W |
|  | 200mA | 8W | 400mA | 16W | 600mA | 24W |
|  | 250mA | 10W | 450mA | 18W | 650mA | 26W |
|  | 300mA | 12W | 500mA | 20W | 700mA | 28W |

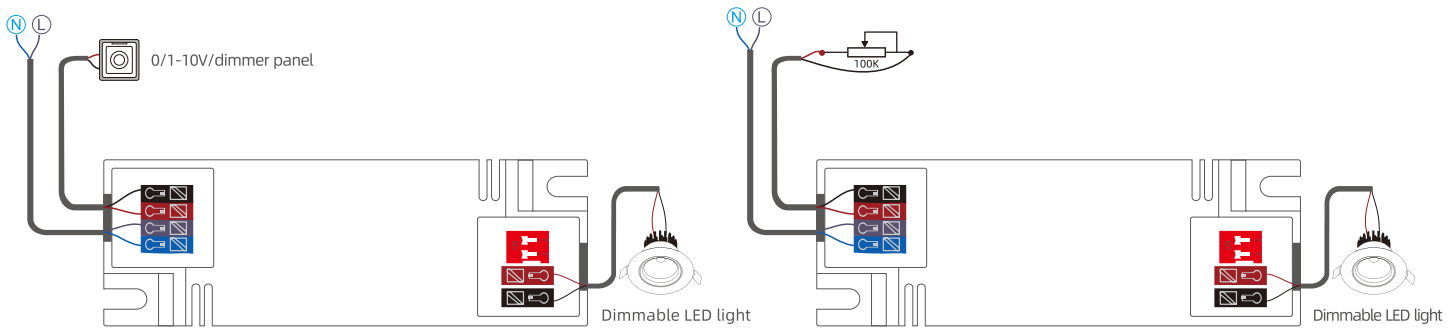
Nameplate identification



Size

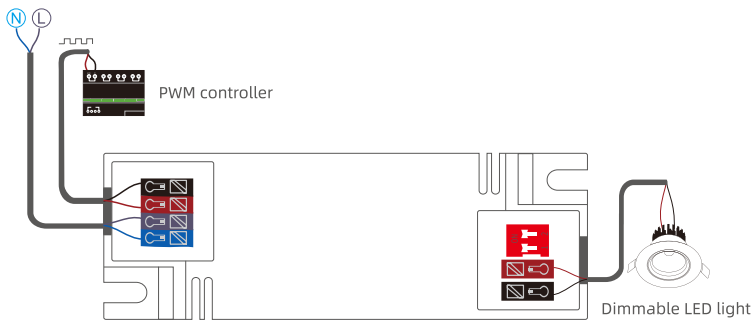


Instructions



(0/1-10V Instructions)

(100K adjustable resistor Instructions)



(PWM Instructions)

Malfunctions analysis

| Problems encountered | The solution |
|----------------------|---|
| No light | <ol style="list-style-type: none"> 1、 Please check if the driver is connected firmly and output Whether the positive and negative are reversed 2、 Please check if the input is powered on 3、 Please check if the dimming interface is turned off by an external dimming signal |
| Not dimmable | <ol style="list-style-type: none"> 1. Check whether the driver's dimming interface has received the correct external dimming signal, and the external signals received by the ASP three-in-one series must not be reversed; |

Attention

- . This product must be installed by professionals. Please read the product manual carefully before installation.
- . This product cannot be waterproof, please use waterproof box for outdoor installation.
- . This product is suitable for installation in a good heat dissipation environment, which is conducive to extending the service life.
- . Please check whether the parameters of the LED dimming driver used meet the product application requirements.
- . It is recommended to use 0.75-1.5mm² PVC or rubber cable for input and output (except signal end) to avoid safety accidents.
- . Make sure all wiring is correct before power on, otherwise the product will be damaged
- . If a failure occurs, please do not repair it yourself and contact the supplier in time.
- . The instruction manual is for reference only, please refer to the actual product, and it is subject to change without notice.
- . This product must not be operated with power on. Please commission and install it with qualified personnel. Please read the product manual carefully before installation.

产品简介

JISIM仟思盟ASP是一系列恒流型LED智能调光驱动器,可以通过拨码开关简易设置4档输出电流;ASP是三合一调光系列(0/1-10V电压信号、可调电阻、PWM信号),可以通过外部信号控制实现平滑调光,当不接外部信号时,可作为常规驱动器使用;适用于LED筒射灯、导轨灯、平板灯、吸顶灯,配合各种智能控制系统广泛用于家居、商业、酒店、办公等高端智能场所。



产品特性

- ASP支持三合一调光(0/1-10V电压信号、可调电阻、PWM信号)
- 调光信号隔离,消耗电流小且相互之间无干扰现象
- 0-100%深度调光
- 无频闪,调光曲线平滑
- 输出电流拨码可选
- 内建主动PFC功能
- 效率12W>82%,20W 28W>85%
- 多灯同步调光功能
- 符合国际安规标准



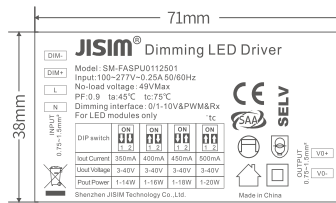
技术参数

| 型号 | | SM-FASPU0112301 | SM-FASPU0112501 | SM-FASPU0112701 |
|---------|--------------------------|--|--|--|
| 输入 | 电压 | 100-277Vac | 100-277Vac | 100-277Vac |
| | 频率 | 50/60Hz | | |
| | 电流 | 0.07A _{Max} @12W230V满载 0.14A _{Max} @12W120V满载 | 0.11A _{Max} @20W230V满载 0.22A _{Max} @20W120V满载 | 0.15A _{Max} @28W230V满载 0.30A _{Max} @28W120V满载 |
| | 功率因素 | 0.9@230Vac满载 | 0.9@230Vac满载 | 0.95@230Vac满载 |
| | 效率 | ≥82%@230Vac满载 | ≥85%@230Vac满载 | ≥85%@230Vac满载 |
| | 漏电流 | <0.5mA/230Vac | | |
| | 待机功耗 | 0.6W | | |
| | 浪涌电流 | 冷机下测试<20A@230V 50HZ | | |
| 抗浪涌 | L-N: 1kV | | | |
| 输出 | 电流/电压/功率 | 300mA/3-40V/12W | 500mA/3-40V/20W | 700mA/3-40V/28W |
| | 电流精度 | ±5% | | |
| | 频闪级别 | 几乎没有 | | |
| | 空载电压 | 49V _{Max} | | |
| | 开机时间 | <500ms@230Vac | | |
| | 纹波与噪声 | <200mV | | |
| | 调光接口电流 | <500uA | | |
| PWM调光频率 | 0.5-5KHz,PWM高电平电压3.2-10V | | | |
| 功能&保护 | 调光接口 | 0-10V_1-10V_R100K_PWM | | |
| | 调光范围 | 0-100% | | |
| | 保护 | 短路,开路,过温 | | |
| | 防护等级 | IP20 | | |
| 环境 | 工作温度/湿度 | -20-+45°C,20-95%RH | | |
| | 储存温度/湿度 | -40-80°C,5-95% RH | | |
| | 最高壳温 | 75°C | | |
| 安全电磁兼容 | 耐压 | 输入对输出:3750V 60S 5mA | | |
| | 绝缘阻抗 | 输入对输出:100MΩ/500VDC/25°C/70%RH | | |
| | 安全标准 | EN61347-1:2015,EN61347-2-13:2014+A1:2017 | | |
| | 电磁兼容发射 | EN55015, EN61000-3-2 Class C, IEC61000-3-3 | | |
| | 电磁兼容抗扰度 | EN61000-4-2,3,4,5,6,8,11, EN61547 | | |
| | 平均无故障时间 | 250000h@满载25°C | | |
| 规格 | 尺寸/重量 | 115*41*28mm,80g@12W/100g@20W/110g@28W | | |

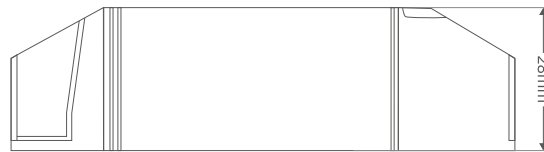
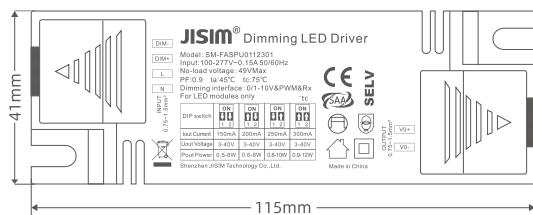
参数设置

|  | SM-FASPU0112301 | | SM-FASPU0112501 | | SM-FASPU0112701 | |
|---|-----------------|------|-----------------|------|-----------------|------|
| | 输出电流 | 输出功率 | 输出电流 | 输出功率 | 输出电流 | 输出功率 |
|  | 150mA | 6W | 350mA | 14W | 550mA | 22W |
|  | 200mA | 8W | 400mA | 16W | 600mA | 24W |
|  | 250mA | 10W | 450mA | 18W | 650mA | 26W |
|  | 300mA | 12W | 500mA | 20W | 700mA | 28W |

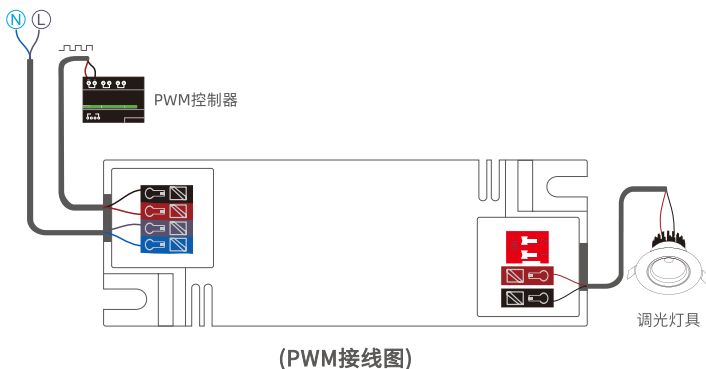
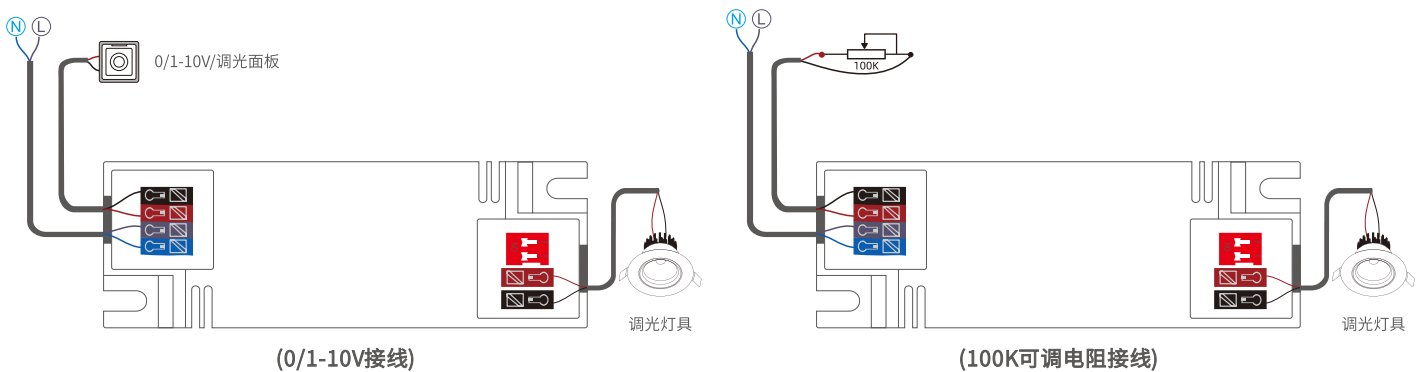
铭牌标识



尺寸图



接线图



故障分析

| 遇到的问题 | 解决的方法 |
|---------|---|
| 灯不亮 | 1. 检查驱动器输入输出线是否接好, 输出灯具正负是否接反; 2. 检查输入电压是否正常, 是否有市电电压输入; 3. 检查驱动器的调光接口是否被外部的调光信号关断; |
| 驱动器不能调光 | 1. 检查驱动器的调光接口是否有接收到外部正确的调光信号, ASP三合一系列所接收的外部信号不得接反; |

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。
- 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, 推荐输入和输出(信号端除外)用0.75-1.5mm² 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; 如果有疑问, 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。