



深圳市金驹科技有限公司

Shenzhen Jinju Technology Co., Ltd.

承认书

ACKNOWLEDGMENT

客户名称 (client's name) : _____

客户料号 (Customer item number) : _____

产品型号 (Product number) : JJ-148300

产品名称 (product name) : DC-DC 降压恒流驱动电源

编制日期 (Date of preparation) : _____

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|-------------------|----------------|-----------------|
| 制定 (Formulate) | 审核 (Review) | 批准 (Approve) |
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| | | |

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产品描述(product description):

★本电源是一款高稳定性的LED恒流驱动电源。内部滤波器件使用品牌绿宝石电容，高频低阻，105℃高温下，时长8000H，低温时间更长。具有启动快速，兼容负载范围宽，保护功能齐全，输入DC48V，输出DC28-36V，高精度的恒流控制，极高的效率和可靠的性能，以及小型的外观结构会使你的灯具更加趋于完美。

★ This power supply is a high stability LED constant current drive power supply. The internal filter device uses brand emerald capacitors, high frequency and low resistance, at 105 °C high temperature, duration 8000H, low temperature time longer. With fast start-up, wide compatible load range, complete protection function, input DC48V, output DC28-36V, high-precision constant current control, extremely high efficiency and reliable performance, and small appearance structure will make your lamp more inclined perfect.

产品特点(Features):

- ★输入DC48V，加防反接保护功能。
- ★输出DC28-36V，恒流9A。
- ★输出开路，短路，过压，过温保护。
- ★可做调光功能。
- ★采用LED专用防水环氧树脂AB胶，通过导热胶与铝壳接触，散热效果极佳，满负载输出时外壳表面温度不超过65℃(在环境25℃测量)，室内户外均可使用，两端各设两个机械固定孔位，适用于多种内部安装应用。

- ★Input DC48V, add anti-reverse protection function.
- ★Output DC28-36V, constant current 9A.
- ★Output open circuit, short circuit, over voltage, over temperature protection.
- ★Dimming function is available.
- ★Adopt the special waterproof epoxy resin AB glue for LED, and contact with the aluminum shell through the thermal conductive glue, the heat dissipation effect is very good, the surface temperature of the shell does not exceed 65 °C (measured at 25 °C in the environment) at full load output, both indoor and outdoor can be used, both ends Two mechanical fixing holes are provided for each internal installation application.

电气规格(Electrical Specifications):

| | | | | | |
|------|---|---------------------------------|------|-----------|---------------------------------------|
| 产品型号 | | JJ-148300 | | | |
| 输入参数 | 输入电压 (范围) | DC48V (42-54V) | 环境特性 | 工作温度 | - 20~+65℃ |
| | 输入电流 | 8A | | 工作湿度 | 20~80%RH |
| | | | | 耐震动 | 10~500HZ, 2G, 10min/周期, X、Y、Z方向各60min |
| | | | | 温度系数 | ±0.05%/℃ (0~60℃) |
| | | | | 储存温度/湿度 | - 40~+85℃ 10~95%RH |
| 输出参数 | 输出电压 | 28-36V (10串) | 其他 | 电磁干扰 | 设计参考: EN55015 |
| | 输出电流 | 9A | | 寿命 | >100000H (25℃) |
| | 电流精度 | ±3% | | 质保 | 3年 |
| | 额定功率 | 300W | | 平均无故障工作时间 | >200000H |
| | 效率 | 96% | | 裸机尺寸 | L*W*H: 67*56*30mm |
| | 线性调整率 | ±2% | | 全铝防水尺寸 | L*W*H: 198*63*40mm |
| | 负载调整率 | ±2% | | 包装方式 | 中性包装 |
| | 启动/上升时间 | 18ms | | | |
| | 断电保持时间 | 15ms | | | |
| 输入保护 | 防反接 | 反接不通电, 不损坏电源 | | | |
| 输出保护 | 短路 | 输出无电流, 异常条件移除后可自动恢复 | | | |
| | 开路 | 输出电压随输入电压变化, 等于输入电压 | | | |
| | 过温 | 100℃ ± 10℃ 保护模式: 输出降电流 (外壳表面温度) | | | |
| | 过压 | 保护模式: 输出降电流 | | | |
| 注 | * 为了延长使用寿命, 建议配置负载时多留30%的余量。 * 所有电气性能测试均在25℃环境下完成, 如未特别说明, 所有规格参数均在DC48V, 环境温度25℃测量。 | | | | |

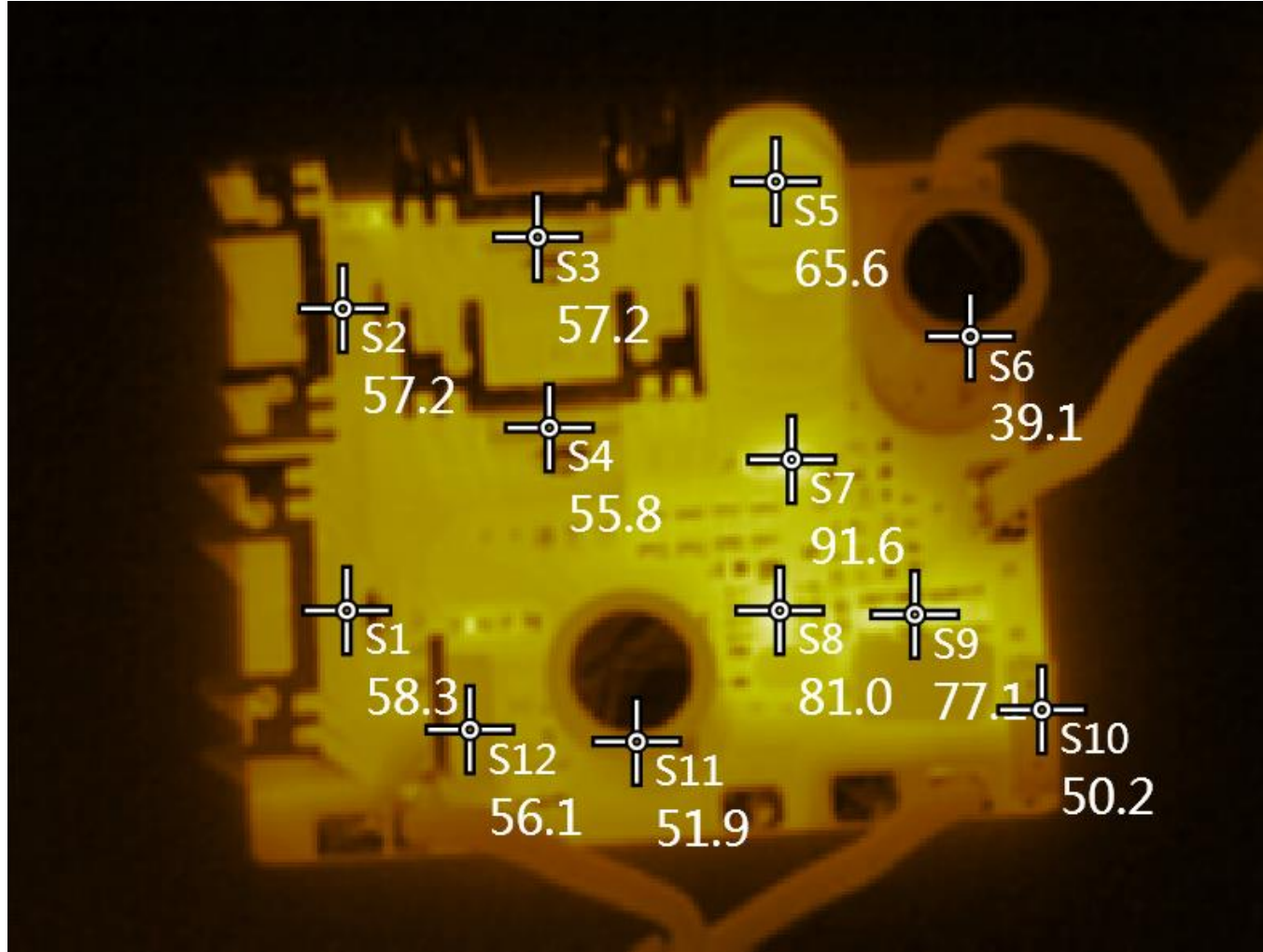
电性参数(Electrical parameters):

| 参数(Parameter) | | Min | Typ | Max | Min | Typ | Max | Min | Typ | Max | 单位(Unit) |
|-----------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| 输入参数 Input parameter | 输入电压(Input voltage) | 42 | | | 48 | | | 54 | | | V |
| | 空载功率(Standby power) | 0.001 | | | 0.001 | | | 0.001 | | | W |
| | 输入电流(Input current) | 6.4 | 7.2 | 8.1 | 5.6 | 6.3 | 7.1 | 5 | 5.7 | 6.3 | A |
| | 输入功率(Input power) | 268.8 | 302.4 | 340.2 | 268.8 | 302.4 | 340.8 | 270.0 | 307.8 | 340.2 | W |
| 输出参数 Output parameter | 输出电压(Output voltage) | 28 | 32 | 36 | 28 | 32 | 36 | 28 | 32 | 36 | V |
| | 输出电流(Output current) | 9.05 | 9.05 | 9.05 | 9.07 | 9.07 | 9.06 | 9.08 | 9.07 | 9.06 | A |
| | 输出功率(Output power) | 253.4 | 289.6 | 325.8 | 254.0 | 290.2 | 326.2 | 254.2 | 290.2 | 326.2 | W |
| | 效率(Efficiency) | 94 | 96 | 96 | 94 | 96 | 96 | 94 | 94 | 96 | % |
| 注 Note | <p>本列表数据除特殊说明外, Ta:25℃,湿度<75%,输入标称电压和输出额定负载时测得。 本列表数据仅供参考,实际以产品实物为标准,偏差范围<5%。 Unless otherwise specified, Ta: 25 °C, humidity < 75%, measured at input nominal voltage and output rated load. The data in this list is only for reference. In fact, it is based on the actual product, and the deviation range is less than 5%.</p> | | | | | | | | | | |

产品适用范围(Scope of application):

| | | | |
|-------------------------------|---|-----------------------------------|---|
| 灯珠串并 (String and parallel) | 10-12串30并 (10-12 series 30 parallel) | 10串40并 (10 series 40 parallel) | 10-12串20并 (10-12 series 20 parallel) |
| 输出电压 (Output voltage) | 28-42V | 28-36V | 28-42V |
| 输出电流 (Output current) | 9A | 12A | 6A |

热成像图(Thermography):



S1, S2 : 续流二极管(Freewheeling diode)

S3, S4: 功率MOS管(Power MOS tube)

S5: 磁环(Magnetic ring)

S6: 输出滤波电容(Output filter capacitor)

S7: RC

S8: 恒流芯片(Constant current chip)

S9: 电流取样电阻(Current sampling resistor)

S10: 保险(Insurance)

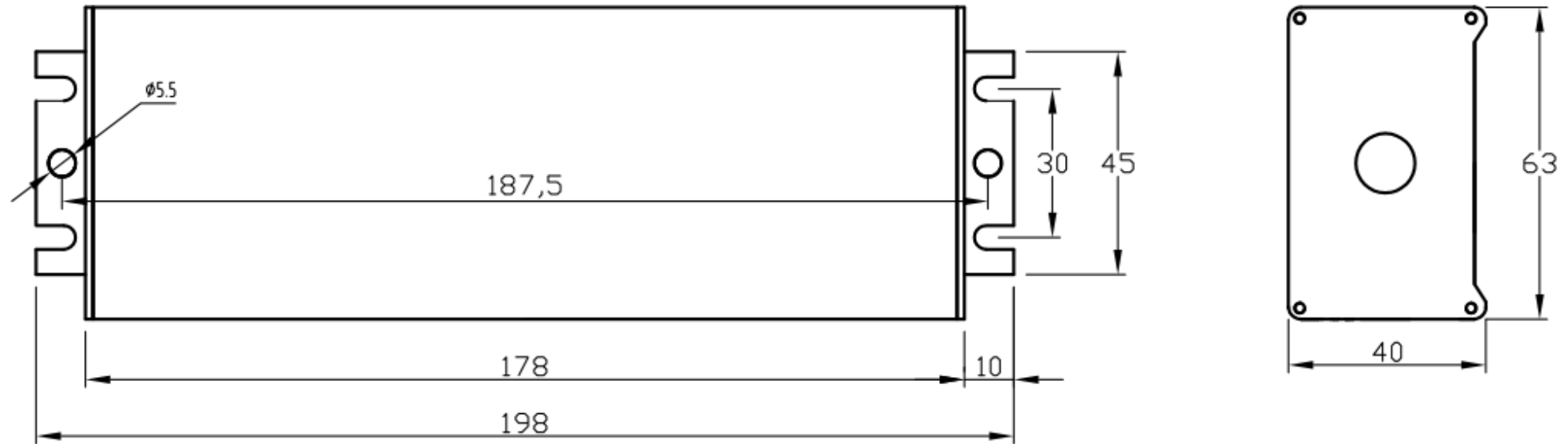
S11: 输入滤波电容(Input filter capacitor)

S12: 输入防反接管(Input anti-reverse takeover)

注: 环境35°C,湿度<75%, 输入标称电压和输出额定负载长时间老化测得。

Note: The environment is 35°C, the humidity is less than 75%, the input nominal voltage and the output rated load are aging for a long time.

安装尺寸图(Installation dimension drawing):



Unit:mm

产品使用说明(Product instructions):

- ★本产品主要应用于LED灯具（照明灯，景观灯，投光灯、太阳能路灯等），整机功率为**300W**。
- ★本产品是长形设计，操作时避免产品变形。
- ★产品输入端是直流电输入，对应标签上DC “V+”和DC “V-”；输出端对应标签上“LED+”和“LED-”，“LED+”为输出正极，接LED正极，“LED-”为输出负极，接LED负极。
- ★使用时请注意安全，防止触电，避免与金属短路，必须用绝缘材料套好后方能放入灯具内。

注：在使用本电源时，请注意区分输入端和输出端，确保正确接线，核对无误后才能通电。

注：请确保输入线正负极不接反，确认无误，再开电源。

注：请先接好DC输出端的负载，确认无误，再开电源。

- ★This product is mainly used in LED lamps (lighting lamps, landscape lamps, flood lamps, solar street lamps, etc.), with a power of **300W**.
- ★This product has a long design to avoid product deformation during operation.
- ★The input end of the product is a direct current input, corresponding to the DC "V+" and DC "V-" on the label; the output end corresponds to the "LED+" and "LED-" on the label, "LED+" is the output anode, connected to the LED anode, "LED-" is the negative electrode of the output, connected to the negative electrode of the LED.
- ★ Please pay attention to safety when using, to prevent electric shock, avoid short circuit with metal, it must be covered with insulating material before it can be put into the lamp.

Note: When using this power supply, please pay attention to distinguish the input terminal and output terminal, make sure that the wiring is correct, and the power can only be turned on after checking.

Note: Please make sure that the positive and negative poles of the input line are not reversed, confirm that they are correct, and then turn on the power.

Note: Please connect the load of the DC output terminal first, confirm that it is correct, and then turn on the power.

常见故障及处理方法 Common faults and Solutions

灯具不亮

Lamps and lanterns
are not bright

请切断DC输入端并检查：

Please cut off the DC input and check:

1.DC输出端是否接触不良；

Whether the DC output terminal is in poor contact;

2.DC输出端正负极是否接反；

Whether the positive and negative poles of DC output end are connected reversely;

3.DC输入端是否接触不良；

Whether the DC input is in poor contact;

4.DC输入供电电源，功率是否够大，能否正常带的起**300W**负载。

Whether the power of DC input power supply is large enough and whether it can normally carry **300W** load.

排除以上故障后再测试。

Remove the above faults before testing.

灯具抖动

Lighting flicker

请切断DC输入端，检查DC输出端：

Please cut off the DC input and check the DC output:

1.有无过载、超载；

Whether there is overload or overload;

2.电源设计参数与实际使用参数不符。

The power supply design parameters are inconsistent with the actual use parameters.

注：产品在使用过程中如遇到其它疑问和问题，请及时与我司沟通、反馈不良信息，我司将积极助贵公司解决好问题。

Note: in case of any other questions and problems during the use of the product, please communicate with our company in time and feed back the bad information. Our company will actively help your company to solve the problems.