



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-V12450

产品名称 (product name) : DC-DC 降压恒压电源

编制日期 (Date of preparation) : _____

制定
(Formulate)

审核
(Review)

批准
(Approve)

承认
(Admit)

审核
(Review)

批准
(Approve)

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产品描述(Product description):

★本电源是一款高稳定性的非隔离DC-DC降压恒压电源。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，保护功能齐全，高精度的恒压控制，极高的效率和可靠的性能，以及小型的外观结构。

★ This power supply is a high stability non isolated DC-DC Buck constant voltage power supply. The internal filter is made of brand emerald capacitor with high frequency and low resistance. The time is 8000h at 105 °C and longer at low temperature. With fast start-up, complete protection functions, high-precision constant voltage control, high efficiency and reliable performance, as well as small appearance structure.

产品特点(Features):

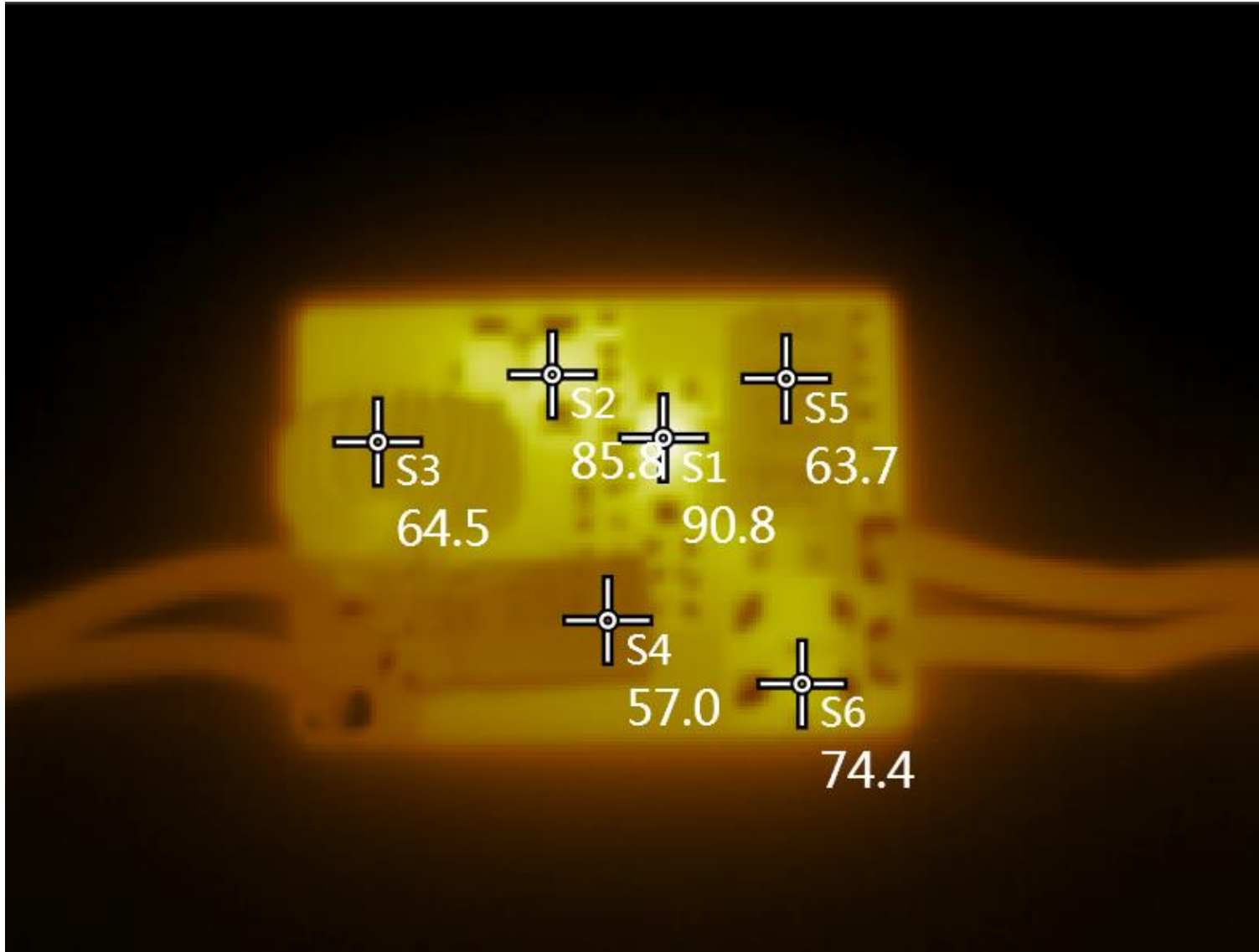
- ★输入DC24V，加防反接保护功能
- ★输出恒压模式：DC12V
- ★高效率（94%）
- ★小体积（66*34*21 mm）
- ★输出短路、过温、过载保护
- ★采用LED专用防水环氧树脂AB胶，通过导热胶与铝壳接触，散热效果极佳，满负载输出时外壳表面温度不超过65℃（在环境25℃测量），室内户外均可使用，两端各设两个机械固定孔位，适用于多种内部安装应用。

- ★ Input DC24 V, add anti reverse connection protection function
- ★ Output constant voltage mode: DC12V
- ★ High efficiency (94%)
- ★ Small volume (66 * 34 * 21 mm)
- ★ Output short circuit, over temperature and overload protection
- ★ LED Waterproof epoxy resin AB glue is used to contact with aluminum shell through thermal conductive adhesive, which has excellent heat dissipation effect. When full load output, the shell surface temperature does not exceed 65 °C (measured at 25 °C), which can be used indoors and outdoors. Two mechanical fixed holes are set at both ends, which is suitable for various internal installation applications.

电气规格(Electrical specifications):

| | | | | | |
|------|---|-----------------|------|------------------|---------------------------------------|
| 产品型号 | | JJ-V12450 | | | |
| 输入参数 | 输入电压 (范围) | DC24 (15-30V) | 环境特性 | 工作温度 | - 20~+65℃ |
| | 输入电流 | 1.35A | | 工作湿度 | 20~80%RH |
| | 输入功率 | 32.5W | | 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 | 12V | 其他特性 | 寿命 | >100000H (25℃) |
| | 输出电流 | 2.5A | | 质保 | 3年 |
| | 额定功率 | 30W | | 平均无故障工作时间 | >200000H |
| | 效率 | 94% | | 裸机尺寸 | L*W*H: 39*29*12mm |
| | 线性调整率 | ±2% | | 半铝防水尺寸 | L*W*H: 66*34*21mm |
| | 负载调整率 | ±2% | | 包装方式 | 中性包装 |
| | 启动/上升时间 | 20ms | | | |
| | 断电保持时间 | 15ms | | | |
| 保护功能 | 输入防反接 | 反接不通电, 不损坏电源 | | | |
| | 短路 | 负载异常移除后可自动恢复 | | | |
| | 过温 | 关闭输出, 温度下降可自动恢复 | | | |
| 注 | * 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DC24V, 环境温度25℃测量。 | | | | |

热成像图(Thermography):

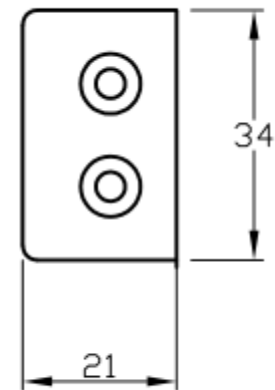
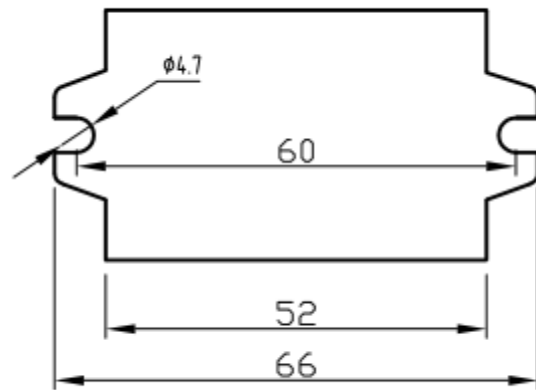


- S1: 升压IC(Boost IC)
- S2: 续流二极管(Freewheeling diode)
- S3: 电感(Inductance)
- S4: 输出滤波电容(Output filter capacitor)
- S5: 输入滤波电容(Input filter capacitor)
- S6: 反接管(Counter takeover)

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

Note: TA: 35 °C, humidity < 75%, long time aging, input nominal voltage and output rated load.

安装尺寸图(Installation dimension drawing):



Unit:mm

产品使用说明(Product instructions):

- ★ 本产品适用于各种12V应用设备，输出功率为30W。
- ★ 为了确保本电源能输出足够电压和功率，请确保输入电源有足够的电压和功率。
- ★ 本产品为防水产品，防水等级为IP67。
- ★ 使用裸板时，请将产品做好绝缘处理。

注：在使用本电源时，请注意区分输入端和输出端，确定正确接线，核对无误在通电。

- ★ This product is suitable for all kinds of 12V application equipment, the output power is 30W.
 - ★ In order to ensure that this power supply can output enough voltage and power, please ensure that the input power supply has enough voltage and power.
 - ★ This product is a waterproof product with the waterproof grade of IP67.
 - ★ When using bare board, please insulate the product.
- Note: when using this power supply, please pay attention to distinguish the input end and the output end, confirm the correct wiring, and check whether there is no error in power on.