



型号: SN-1204000 Model:SN-1204000

输入电压: 100-240VAC Input voltage:100-240VAC

输出电压: 12V Output voltage:12V

功率: 50W Power: 75W

产品尺寸: 85*42*32mm Product size:85*42*32mm

设计标准: CCC/CE/UL/PSE/SAA/KC

Design criteria:CCC/CE/UL/PSE/SAA/KC

应用: 灯具照明, 汽车电子、智能电器等

Application: lamp lighting, automotive electronics, intelligent electrical appliances, etc

一：产品概述: Product overview

- 安全规范; 产品都按安规标准设计, 充分考量 LVD 及 EMC
- Safety specifications; products are designed according to safety standards, taking LVD and EMC into full consideration
- 环保材料; 所有元器件及焊接采用无铅材料及工艺
- Environmental protection materials; lead-free materials and processes are used for all components and welding
- 优质元器件: 元器件采用艾华之类品牌器件, 保证产品稳定可靠
- High quality components: components adopt brand components such as Aihua to ensure the stability and reliability of products
- 品质可靠: 所有产品经过多道测试工序, 不良率控制 0.3%
- Reliable quality: all products have passed multiple testing procedures, and the defect rate is controlled by 0.3%
- 非标定制: 批量客户可提供免费更改尺寸及安装孔
- Non standard Customization: mass customers can provide free size change and installation holes

二：产品技术参数：Product technical parameters

2-1：输入参数：Input:

交流 100-240V 50Hz/60Hz (可定制输入)

AC100-240 50Hz/60Hz (Customizable)

2-2：功率：POwer

在 12V 输出状态之下，可长时间满载工作功率 50W

Under 12V output state, the full load working power can be 50W for a long time

2-3：输出电压：

12V 稳压输出，输出范围 11.6V-12.6V，稳压精度 $\pm 5\%$ (可定制精度 $\pm 2\%$)

Output voltage: 12V stabilized voltage output, output range 11.6v-12.6v, stabilized voltage accuracy $\pm 5\%$ (customizable accuracy $\pm 2\%$)

2-4：转换效率：Efficiency:

按 220V 输入标准，输出 12V 电压，带载 6A 测试结果，转换效率 $\geq 83\%$ ，

output 12V voltage according to 220V input standard, 6A test result with load, conversion efficiency $\geq 83\%$,

2-5:电压过冲：Voltage overshoot

冲击电流峰值在额定输入电压，冷启动 (25°C) 时，不大于 50A；且在任何负载和输入条件下，不导致永久性损坏或危险 The peak value of impulse current shall not be greater than 50A at rated input voltage and cold start (25 °C), and shall not cause permanent damage or danger under any load and input conditions

2-6:过压保护 Overvoltage protection

内部限制 Internal restrictions

2-7:短路保护 Short circuit protection

电源输出的短路将自动进入保护状态，在保护过程中，不会出现诸如元器件、连接器等损坏危险，断开短路后，电源将自动恢复正常。The short circuit of the power output will automatically enter the protection state. During the protection process, there will be no damage hazard such as components and connectors. After the short circuit is disconnected, the power supply will automatically return to normal.

2-8:过流保护 Over current protection

在 12V 输出状态, 输出电流 $\geq 120\%$, 即 5A 电源触发短路保护功能, 电压逐步降低, 直到无输出, 断开负载及输入, 电源恢复正常

In 12V output state, the output current is $\geq 120\%$, that is, 5a power supply triggers the short-circuit protection function, and the voltage gradually decreases until there is no output. Disconnect the load and input, and the power supply returns to normal

2-9: 保持时间 Retention time

满载条件下, 电源在 100Vac 输入时, 保持时间不小于 10ms。Under full load condition, when the power supply is at 100 VAC input, the holding time shall not be less than 10 ms.

2-10:启动时间 Startup time

满载条件下, 电源在 100Vac 输入时, 启动时间不大于 3 秒。Under the condition of full load, when the power supply is at 100 VAC input, the starting time shall not be more than 3 seconds.

2-11: 温度 temperature

工作环境温度: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$ Working environment temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$

贮存环境温度: $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$ storage environment temperature: $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$

2-12: 平均无故障间隔时间 Mean time between failures

25℃环境温度, 满载条件, 额定电压输入条件, 平均无故障间隔时间 ≥ 10000 小时(MIL-HDBK-217F)。25 °C ambient temperature, full load condition, rated voltage input condition, mean time between failures ≥ 10000 hours (mil-hdbk-217f).

2-13:产品尺寸 Product size

85*42*35mm (长*宽*高) (L * w * h)

三：产品布局图：Product layout

购买需知：To purchase:

1. 我司是一家专业从事电源开发设计的公司，质量及技术过硬，可以放心购买

Our company is specialized in the development and design of power supply, with excellent quality and technology, which can be purchased at ease

2. 我们可以提供批量免费定制服务，包括尺寸更改，安装孔更改等

We can provide mass customization service free of charge, including size change, installation hole change, etc

3. 我司电源产品按安规标准进行设计，元器件采用品牌元器件，安全放心

Our power supply products are designed according to the safety regulations and standards. The components are brand components, safe and assured

4. 购买前请和我司业务人员确认好相关需求，再对应报价并采购

Please confirm relevant requirements with our business personnel before purchase, and then make corresponding quotation and purchase

5. 有特殊要求也可以告之业务员，包括器件指定，包装方式及运输方式等要求，我们会尽量按客户要求配合

If you have any special requirements, you can also inform the salesman, including the requirements for device designation, packaging and transportation. We will try our best to cooperate with the customer according to the requirements

感谢您选择我们的产品，希望我们的能产品能对你有所帮助！Thank you for choosing our products, hope our products can help you!