

承认书

SPECIFICATION FOR APPROVAL

Switching power Supply/开关电源

客户:

CUSTOMER: ICBANQ

产品描述:

DESCRIPTION: Input:100~240V AC 50/60Hz Output:12V DC 5A

机种型号:

OUR MODEL NO: BSG-60W1205000

样品编号:

日期:

SAMPLE NO: _____

DATE: 2024/5/22

产品颜色:

SAMPLE COLOR:Black



Whit



APPROVAL SIGNATURE/客户确认

核准/APPROVED BY

审核/CHECKED BY

检测/TESTED BY

Manufacturer/制造商

业务/SALES

核准/APPROVED BY

设计/DESIGNED BY

型号/Our model: BSG-60W1205000

客户/Customer: ICBANQ

日期/Date: 2024/5/22

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1.0 概述 General

此产品为单路输出: +12V 5000mA , 连续工作输出功率为 60W 的电源适配器, 高标准设计, 空载功耗低, 符合国际最新电源标准以及安规要求.

The specification defines the performance characteristics of a 60W

Continual, Single Output level switching power supply for +12V,5000mA max.

The power supply has designed highly reliable and meet international safety and radiation requirements.

2.0 输入特性 Input Requirements

2.1 输入电压范围 Input Voltage Range

100~240Vac

2.2 输入频率范围 Rated Input Frequency

50/60Hz

2.3 最大输入功率 Maximum Input Power

60W

2.4 输入电流 Input Current

AC 100V 输入, 输出满载条件下, 1240mA 最大

1240mA rms max AC 90V input and DC output full load

2.5 输入端保护 Input Protection

输入端采用 T2AL250VAC 慢断玻璃管保险丝, 在出现损坏故障情况下将烧断保险管而进入保护状态

The power supply shall be protected against power line surges and any abnormal condition by 2A/250VAC fuse

2.6 浪涌电流 AC Inrush Current

标称电压 240VAC 输入, 冷&热开机状态下, 60A 最大,

标称电压 100VAC 输入, 冷&热开机状态下, 30A 最大。

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Peak inrush current shall be limited to 60 A for a cold start. Under both cold & warm start conditions, there shall be no immediate damage or long term impact on the reliability of the Supply. The conformance test for this requirement shall be performed at the rated input voltage. Voltage and current waveforms will be observed on an oscilloscope following closure of the external power switch. Switch closure will be repeated until the waveforms show closure coincident with a voltage peak. The current measured during this occurrence will be defined as the peak inrush current.

2.7 效率 Efficiency

满负载，输入额定电压情况下 80% 最小。
80% min. At AC nominal input @ output full load

2.8 空载功耗 Power Consumption

0.3W 最大
0.3W rms max At AC maximum input @ output min load

3.0 输出特性 Output Requirements

3.1 开机延时 Turn On Delay

额定输入电压，满载情况下，2000 mS 最大。
2000 mS At nominal input AC voltage and full load
Test on delay is measured from 0 voltage output to the main output regulation.

3.2 上升时间 Rise Time

上升时间 20 mS 最大
The Supply shall have a start-up rise time of less than 20 mS to rise to within regulation limits for all DC outputs.

3.3 输出额定电压 Rating Output Voltage

+12VDC

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3.4 输出额定电流 Rating Load Current

5000mA

3.5 输出额定功率 Rating Output Power

60W

3.6 线性调整率 Line Regulation

+/-5%最大

The line regulation is less than $\pm 5\%$ while measuring at rated load and +/-5% of input voltage changing.

3.7 负载调整率 Load Regulation

+/-5%最大

The load regulation for +12.0V is less than +/-5%, at measured output load from 10% to 100% rated load (11.4V-12.6V)

3.8 纹波&噪声 Ripple & Noise

$\leq 120\text{mv}$

Ripple&Noise $\leq 120\text{mv}$

测试条件:

输出端并联一个 0.1uf/50V 瓷片电容及一个 10uf/50V 电解电容, 带宽 20MHz

Ripple $\leq 75\text{mv}$, Noise $\leq 100\text{mv}$,

Ripple & noise test condition: Measured with by-pass capacitors 0.1uf/10uf

at output connector terminal and oscilloscope set at 20MHz.

(Tested by oscilloscope after waiting 1minute).

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4.0 保护功能/PROTECTION FUNCTION:

4.1 短路测试/Short circuit test:

该电源供给器在短路解除时能正常工作恢复.

The power supply will be auto recovered when short circuit faults remove.

4.2 过流保护/Over current Protection:

过流故障排除后,电源将自动恢复正常工作.

The power supply will be auto recovered when over current faults remove.

5.0 冷却方式 Cooling Method

自然冷却

By nature air

6.0 安全标准 Safety Standard

EMI 标准/EMI STANDARD

Meets the Limits of/测试符合

<1>.Fcc part15 class B rules

<2>.EN55022 class B rules

<3>.GB9254-1998,GB17625.1-2003

7.0 漏电流 Leakage Current

0.25 mA 最大

0.25 mA max .

8.0 高压测试 Hi-Pot

输入—输出 3000VAC/ 1 分钟 / 10mA

primary to secondary 3000Vac 1 min. 10mA

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9.0 可靠性要求 Reliability Requirement

9.1 平均无故障时间 MTBF

30000 hours @ 25°C

9.2 高温高湿测试 High Temperature And Humidity Test

40°C +/- 2°C, 95% +/- 2%, 48小时

9.3 DC 头插拔测试 DC Jack Plug In/Out

5000 次, 无接触不良

9.4 跌落测试 Drop Test

在0.75米高度上, 将充电器以最不利的方向跌落到30mm木板上, 做6次试验。

要求: 充电器无裂缝(裂开), 无部件松动; 电气测试后, 各项电气指标都能达到要求。

single free drop from 0.75m to 0.3mm wood board for 6 times one cycle,
components are not break off, pass Hi-Pot test

9.5 震动测试 Random Vibration Test

振动试验方法按GB/T2423.10-1995 中“试验 Fc”进行。频率为10~50Hz, 振幅为0.35mm, 每个方向上扫频循环次数为10次。

要求: 试验后外观和电气性能都能达到指标要求。

Testing based on GB/T2423.10-1995 “Test Fc”, Frequency to be 10~50Hz,
amplitude to be 0.35mm, scan 10 times for each direction. No functional
failure and observable crack or damage on the charger body .

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9.6 老化测试 Burn-In Test

100% load, 2hour

9.7 线材拉力测试 Cable Pull Test

20N, 60S

9.8 尾卡拉力测试 SR Pull Test

20N, 60S

9.9 摇摆试验 Strain Relief Bend Test

150g, +/-60 degree, 3000 times, 40 times/ per minute

9.10 环境温湿度 Temperature And Humidity

工作温度 Operating temperature: 0°C to 40°C.

工作湿度 Operating humidity: 5% to 90% rh. (relative humidity).

储存温度 Storage temperature: -20°C to 70°C .

储存湿度 Storage humidity: 5% to 95% rh. (relative humidity)

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10.0 外观 Appearance

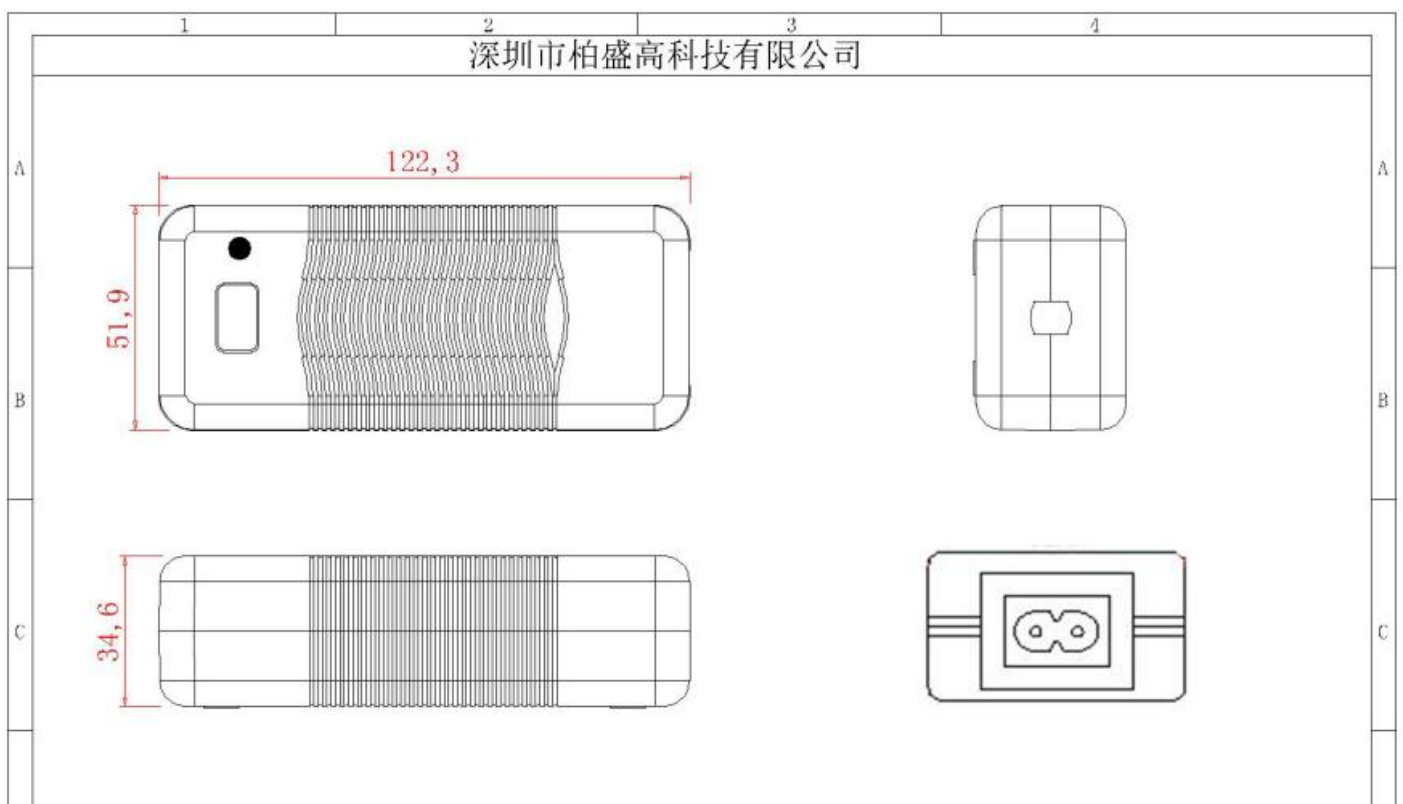
10.1 外壳/Enclosure: **COLOR: Black**

外壳尺寸: L120 x W53 x H32mm;

The power supply size: L120 x W53 x H32mm;

10.2 重量 **Net Weight** Approx. 330.00g

10.3 输入线/Input Connector:120MM



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11.0 线材

In put Plug & AC Cord

AC:韩规 8 字尾 1.2 米

DC:2464 20# 有磁环 1.2 米

Output Plug & DC Cord

11.1 输出插头 Output plug

DC 接口: 5.5*2.5*10 音插

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12.0 铭牌 Label

전기공급의 표시사항

제품명: AC/DC ADAPTER

모델명: BSG-60W1205000

정격 입력: 220V~

60Hz 1.5A

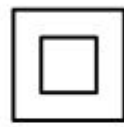
정격 출력: 12.0V  5.0A

MSIP-REM-BxG-BSG-60W1205000

제조사: SHENZHEN BOSHENGAO
TECHNOLOGY CO., LTD



HU10584-16011



MADE IN CHINA

深圳柏威高科技

型号/Our model: BSG-60W1205000

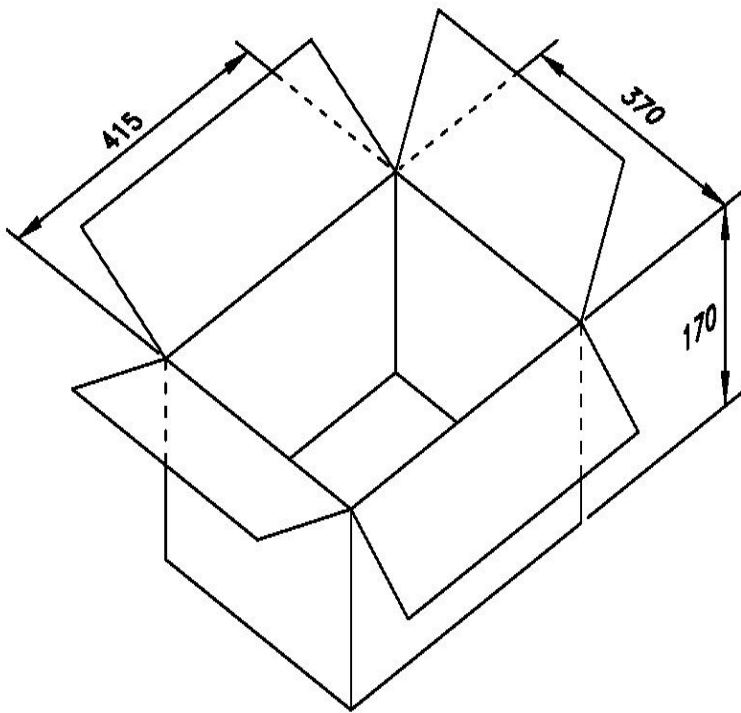
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13.0 包装方式 Packing Information

13.1 白盒 White box



备注:

1. 纸箱材质为A=B

抗张力14公斤/cm²

2. 外箱尺寸为外部尺寸, 公差为: +5,-0.

3. 装箱方式: 以50pcs为一层, 共装一层, 共计
50PCS/箱