

规格承认书

SPECIFICATION FOR APPROVAL

批准 APPROVAL SIGNATURE
日期 DATE:

请签字确认并回传本司 PLEASE SIGN AND RETURN ONE COPY.

签字后，您同意本承认书内容，所有产品将按此要求生产

With your signature, you agree that all contents in this approval sheet are correct and all production units will be built according to the speciation described in this sheet.

备注 REMARKS: _____

客户名称
CUSTOMER

客户型号
PART NUMBER

产品类别
PRODUCT

电源适配器

设计编号
DESIGNED NO

SK-W2012010506

机种型号
MODEL NO

SK02G-0500200Z

深圳市星维科技有限公司

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修改记录 (Specification Change History)

项目 Item.	修改日期 Revision Date	修改内容 Revision Content	生效日期 Effective Date	确认 Arbiter	修改人 Revisor
1					

产品型号： MODEL NO.:	SK02G-0500200Z	Approve 批准	Check 审核	Preparation 拟制
设计编号： DESIGNED NO.:	SK-W2012010506			
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1. 描述 (Description)

本规格书适应于 SK02G-0500200Z 型号的开关电源.

This specification apply to the switching power whose model no. is SK02G-0500200Z

2. 电气规格 (Electrical Specification)

2.1 输入 (INPUT)

输入电压范围 (Input voltage range)	100Vac - 240Vac
额定输入电压范围 (Rated voltage range)	100Vac - 240Vac
适用频率范围 (Input frequency range)	47Hz-63Hz
额定频率 (Rated input frequency)	50Hz/60Hz
输入电流 (Input current)	0.35A _{max.} at full load
浪涌电流【Inrush current(cold start)】	30A _{typ peak} , 220Vac Input

2.2 输出 (OUTPUT)

2.2.1 额定输出 (Rated Output)

输出电压 Output Voltage (Vdc)	输出电压范围 Output Voltage Limit (Vdc)	纹波&噪声 Output Ripple & Noise (mV)	最大输出电流 Output Current (mA)
5	4.75-5.25	120	2000±100

注 (Notes): 在测试纹波时示波器带宽调至 20MHz, 示波器的测试端并联一粒 10uF 的电解电容和一粒 0.1uF 的瓷片电容。(Ripple Voltage is measured with oscilloscope with bandwidth 20MHz . A 10uF E-cap and 0.1uF ceramic-cap shall be connected to the connector in parallel.)

2.2.2 输出超调 (DC Output Overshoot At Turn On & Turn Off)

输出电压 Output Voltage (V)	输出超调电压比例 Proportion of the output voltage overshoot	
	开通 Turn on	关断 Turn off
5V	5%	5%

注 (Note): 在全部电流范围内进行测试 (All of dc output current from Min. to Max..)

2.2.3 负载特性,调整率 (Combined Load/Line Regulation)

电压 Voltage	最小负载 Min. Load	额定负载 Rated. Load	线性调整 Line Regulation	负载调整 Load Regulation
5Vdc	0.01A	2A	±3%	±5%

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2.2.5 启动延迟时间 (Turn on delay time) :

当输入 115Vac 和输出最大负载时,最大启动时间为 2S.
2Second Max. at 115Vac input and output Max. load.

2.2.6 上升时间 (Rise time) :

当输入 115Vac 和输出最大负载时最大时间为 40mS.
40mS Max. at 115Vac input and output Max load.

2.2.7 保持时间 (Hold up time) :

当输入 115Vac 和输出最大负载时,最小保持时间为 5mS.
5mS Min. at 115Vac input and output Max. Load.

2.2.8 效率 (Efficiency) :

当 230Vac 输入时,输出在 25%, 50%, 75%及满载情况下,平均效率需达到 73.8% (开机 30 分钟后测试) .
Average efficiency reach 73.8% minimum at 25%, 50%, 75%&100% of full-loading and 230Vac input
(After warm up 30 minutes).
空载输入功率 \leq 0.3W.
No-load input power \leq 0.3W

3. 保护功能 (Protection)

3.1 短路电路保护 (Short circuit protection) :

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 after short circuit faults remove.

3.2 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 after over current faults remove.

4. 可靠性要求 (Reliability Requirements)

4.1. 老化 (Burn-in)

产品至少要在 40°C \pm 5°C的环境及 80%额定负载条件下煲机 2-4 小时
The power supply shall be burn-in for 2-4 Hours under normal input and 80% rated load at 40°C \pm 5°C

4.2. 平均间隔故障时间估算 (MTBF Qualification)

平均间隔故障时间: 至少 50,000 小时,25°C环境及额定输入与满载条件下
The MTBF shall be at least 50,000hours at 25°C, Full load and nominal input condition

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5. 环境要求 (Environment Requirement)

5.1 工作温度 (Operating Temperature) :

0°C-40°C, 满载, 正常工作

0°C to 40°C, Full load, Normal operation.

5.2 储藏温度 (Storage Temperature) :

-40°C to 85°C 【带外壳 (With package)】

5.3 工作湿度 (Relative Humidity) :

5% (0°C) ~95% (40°C) , 72 小时, 满载, 正常工作.

5% (0°C) ~95% (40°C) RH, 72Hrs, Full load, Normal operating.

5.4 振动 (Vibration) :

5.4.1. 测试标准: 国际电工电子委员会

Operating: IEC 721-3-3 3M3

5~9Hz, A=1.5mm

9~200Hz, 加速度 Acceleration 5m / S2

5.4.2. 运输 (Transportation) :

IEC 721-3-2 2M2

5-9Hz, A=3.5mm

9~200Hz, 加速度 Acceleration=5m / S2

200~500Hz, 加速度 Acceleration=15m / S2

5.4.3. 轴向振动 (Axes, 10 cycles per axis):

在测试过程中不能出现永久性的损坏.

No permanent damage may occur during testing.

在电源开启和关闭后, 样机能够恢复到最初条件.

The product can restore to its original situation after power off / on.

5.5 跌落试验 (Dropping Packed) :

一个角, 三个棱, 六个面.

1 corner, 3 edges, and 6 surfaces

高度 76cm

Height: 76cm.

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6. 安全及 EMI 要求 (Safety and EMI Requirement) :

6.1 安全:符合标准 (Safety: accord with):

certificate	国家/Country	standards	
<input type="checkbox"/> UL/CUL	美国/USA	UL60065	
<input checked="" type="checkbox"/> UL/CUL	美国/USA	UL60950	
<input type="checkbox"/> TUV/GS	欧洲/Europe	EN60065	
<input checked="" type="checkbox"/> TUV/GS	欧洲/Europe	EN60950	
<input checked="" type="checkbox"/> FCC	美国/USA	Class B	
<input type="checkbox"/> CE	欧洲/Europe	EN60065	
<input checked="" type="checkbox"/> CE	欧洲/Europe	EN60950	
<input type="checkbox"/> MEPS	澳洲/Australia	AS/NZS 4665	
<input type="checkbox"/> SAA	澳洲/Australia	AS/NZS 60065	
<input type="checkbox"/> SAA	澳洲/Australia	AS/NZS 60950	
<input type="checkbox"/> CCC	中国/China	GB8898	
<input checked="" type="checkbox"/> CCC	中国/China	GB4943	
<input type="checkbox"/> PSE	日本/Japan	J60950 (H22)	
<input type="checkbox"/> CB	欧洲/Europe	IEC60065	
<input type="checkbox"/> CB	欧洲/Europe	IEC60950	
<input type="checkbox"/> C-TICK	澳洲/Australia	AS/NZS CISPR13:2004	
<input type="checkbox"/> EK/KC	韩国/Korea	K60065	
<input type="checkbox"/> EK/KC	韩国/Korea	K60950	

6.2 EMI 标准 (EMI STANDARD):

Meets the Limits /测试符合

<1>.Fcc class B rules

<2>.EN55022 class B rules

6.3 绝缘强度 (Dielectric Strength Testing):

绝缘强度满足下表的要求, 100% 在线产品执行此项测试, 并每一项目至少保持 5 S 时间, 无任何故障。

Hi-pot test shall be met the table 5 requirements, an item listing this test as a 100% production test must be performed and be maintained at that level for a minimum of 5 seconds without failure.

项目 (ITEM)	测试规格 (SPECIFICATION)	结果 (REMARK)
输入—输出 Primary to Secondary	3000Vac/5mA/5s	无飞狐 No arcing
输入—地 Primary to P.G		无击穿 No broken
输出--地 Secondary to P.G		

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7. 测试设备清单 (Test Equipment List)

项目	设备名称	制造	型号
1	变频电源 (AC power source)	Chroma	6120
2	示波器 (Oscilloscope)	Tektronix	TDS1002B
3	电子负载仪 (Electronic load)	TET	T3515
4	万用表 (Multimeter)	FLUCK	87III
5	功率计 (Dynamometer)	Chroma	2100
6	温度表 (Thermograph)	LUTRON	TW-902C
7	插头引线弯折试验机 (Plug lead bend test machine)	联欣	LX-817
8	盐雾试验机 (Salt spraying tester)	联欣	LX-8827B
9	震动台 (Vibration table)	精技实验	FZD-25
10	跌落测试台 (Drop test bed)	自制	
11	数显卡尺 (Digimatic caliper)	上海量具	0-150mm

8. 结构参数 (MECHANICAL REQUIREMENT) :

8.1 外壳 (Enclosure) :

外壳尺寸: L62.4x W26.5x H48.3mm;

The power supply size: L62.4x W26.5x H48.3mm

8.2 输入线 (Input Connector) :

2 Pin 插脚

Two pin input plug.

8.3 产品外观图片 (Photograph of the product):

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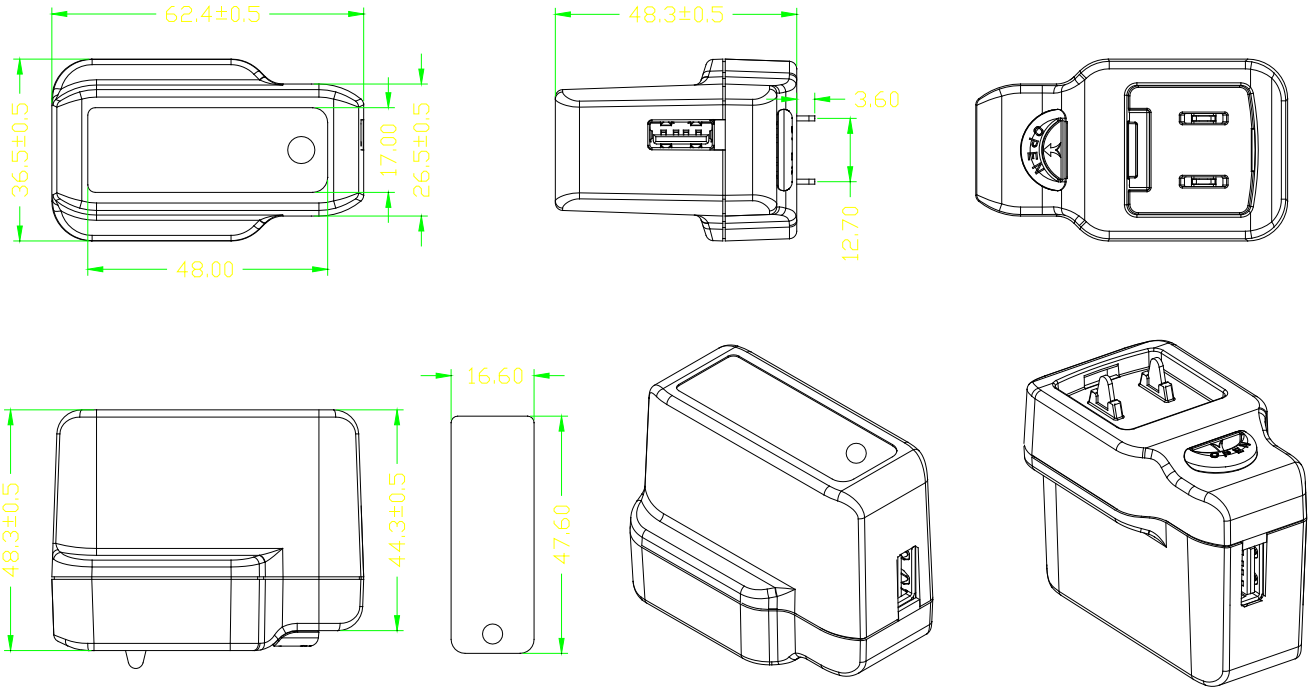
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9. 机械规格 (MECHANICAL SPECIFICATIONS)

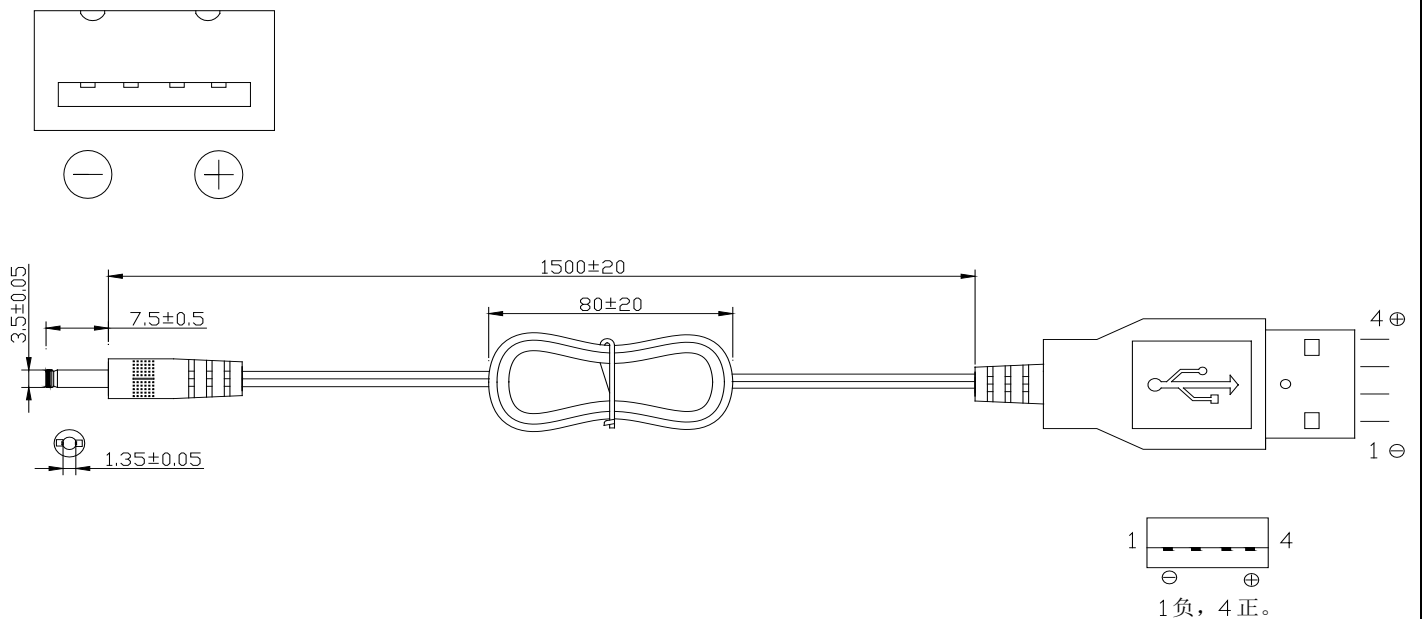
9.1 物理尺寸 (Dimension):

62.4mm X26.5mm X48.3 mm (L* W * H , 见图).



9.2 DC 线尺寸图 (DC Output Cord Drawing):

(见图). USB(另配带一条 2468/22A/1.5M/ DC 线: 一头是 USB 接口. 另一头 3.5X1.35X7.5MM 直头音叉)



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9.3 极性和连接器脚位定义 (Polarity and Pin Connection)

9.3.1. 极性 (Polarity):

1 负 4 正

10.3.2. 连接器脚位定义 (Pin Connection)

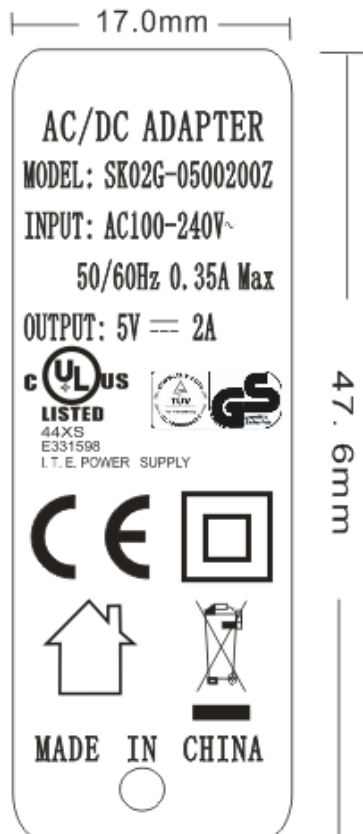
1	1	1 负
2	2	-
3	3	-
4	4	4 正
5		-

10. 重量 (Weight)

电源的重量大约为 120 g. The weight of the power supply shall be about 120 g.

11. 铭牌图 (Label Drawing)

银底黑字 (材质: 哑银龙) 尺寸 17.0mmX47.6mm



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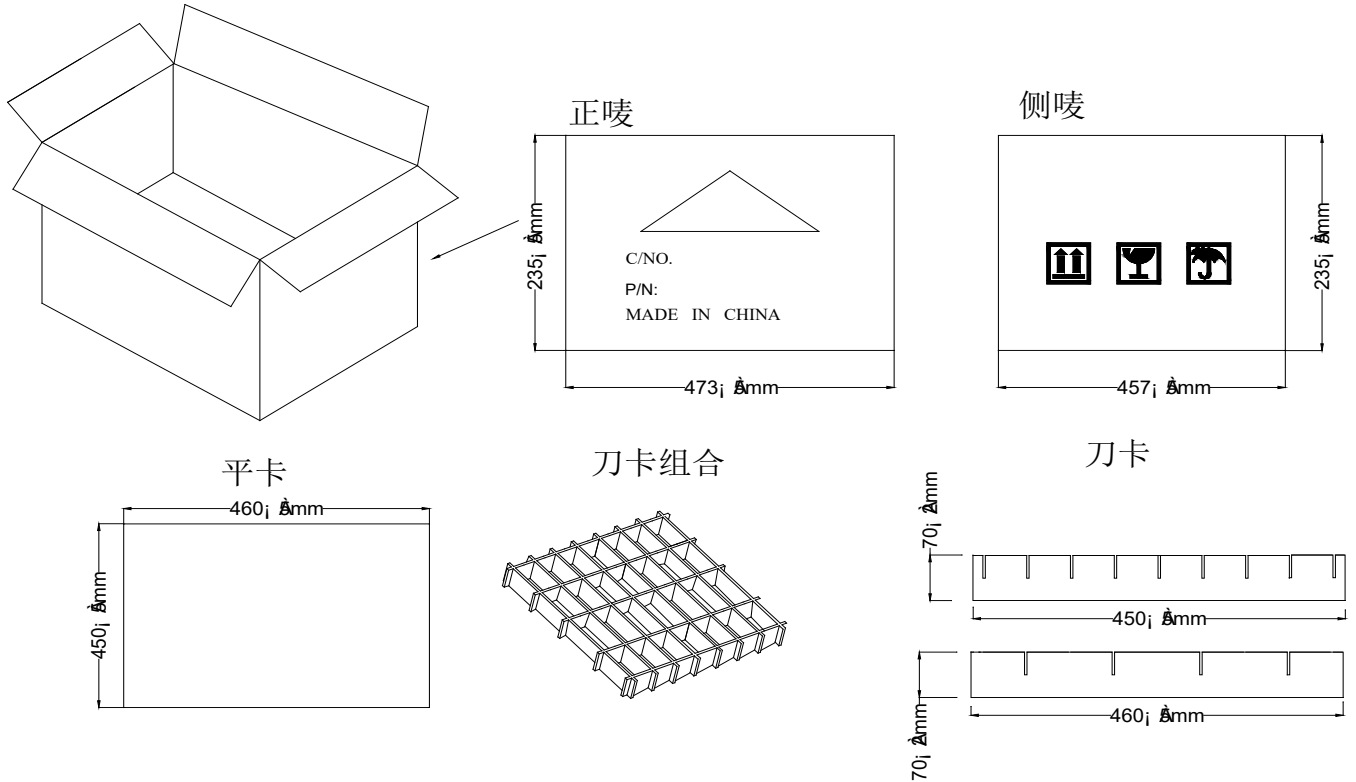
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12 包装图 (Package Drawing)

100PCS/箱



包装说明 (PACKING):

若客户未提出包装方式时，均使用本公司之包装方式。

Our own packing style will be adopted if no special packing required .

a 内包装/inner package

PE 袋/PE bag

b 外包装/ Outer package

纸箱/ paper-box.

尺寸: 473×457×235mm ,5×8刀卡加平板2张45×46cm.

c 外包装箱标识/ Outer package notes include the information

客户、订单号、品名、数量、日期等信息

Customer Name, LOT Number, Model No., Date, and so on.

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