

# 样品承认书



*SAMPLES SPECIFICATION FOR APPROVAL*

*Switching power Supply/开关电源*

客 户:

CUSTOMER: \_\_\_\_\_

产品描述:

DESCRIPTION: Input:100-240V ~ 50-60Hz Output: **DC5V1A**

机种型号:

OUR MODEL NO: \_\_\_\_\_ **JZB110-050100WU**

样品编号:

日期:

SAMPLE NO: \_\_\_\_\_

DATE: **2019-12-05**

客户编码:

产品颜色/SAMPLE COLOR:

Customer part number: \_\_\_\_\_ **Black**  **White**

APPROVAL SIGNATURE/客户确认

核准/APPROVED BY	审核/CHECKED BY	检测/TESTED BY

Manufacturer/制造商

核准/APPROVED BY	审核/CHECKED BY	制定/MAKER
		黄文秀

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版本目录/Rev. List			
版本/Rev.	日期/Date	描述/ Description	制订/Design
A1	2019-12-05	新版本/New Rev.	

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1、描述/ DESCRIPTION:

该开关式电源的连续输出功率为 5W.

The S.M.P.S should be capable of a total continuous DC power output of 5 W atts.

2、输入特性/INPUT CHARACTERISTICS:

2.1 输入电压/Input Voltage:

额定电压/Rated Voltage: 100-240 Vac

调整范围/Variation Range: 90-264 Vac

2.2 输入频率/Input Frequency:

额定频率/ Rated Frequency: 50-60 Hz.

调整频率/Variation Frequency: 47-63 Hz

2.3 输入电流/Input Current:

当输入交流电压为额定值的下限电压负载满载时,最大输入交流电流 0.35 A.

0.35 Amps max At any input voltage and rated, DC output rated load.

2.4 浪涌电流/Inrush Current:

冲击电流峰值在额定电压输入,冷启动(25℃)时,不大于 30A;且在任何负载和输入条件下,不导致永久性损坏或危险.

Impact current peak in the rated voltage input, cold start (25 °C), not more than 30 A; And in any load and input conditions, don't cause permanent damage or dangerous.

2.5 AC 漏电流/Ac Leakage Current:

当输入电压 240Vac 时,最大漏电流为 0.25mA./ 0.25mA Max.At240Vac input.

2.6 Stand-by power consumption  $\leq$  0.1 Watts.

待机功耗 $\leq$  0.1 W.

3、输出特性/OUTPUT CHARACTERISTICS:

3.1 输出功率/Power output

电压 Voltage	最小负载 Min. Load	额定负载 Rated. Load	输出功率 Output power
5Vdc	0.01A	1A	5W

3.2 输出特性/Output Characteristics

电压 Voltage	最小负载 Min. Load	额定负载 Rated. Load	电压范围 Voltage Range	
			空载电压 (V)	负载电压 (V)
5Vdc	0.01A	1A	4.75-5.35	4.75-5.35

3.3 纹波和噪音 Ripple and Noise:

测试条件:在输入 115/230Vac 25°C 和输出最小及最大负载时, 使用示波器带宽为 20MHz 连接到适配器的输出端, 同时输出端并联一个 47uF 的电解电容和一个 0.1uF 的瓷片电容.

At 115/230Vac 25°C input and output Min and Max.Load,the ripple and noise are as follows when measure with Max.Bandwidth of 20MHz and Parallel 47uF/0.1uF,crossed connected at testing point.

电压	最大纹波/最大噪音
<u>Voltage</u>	<u>Ripple and Noise(Max.)</u>
<u>+5Vdc</u>	<u>120 mV p-p</u>

3.4 启动延迟时间/Turn on delay time:

当输入 100Vac 和输出最大负载时,最大启动时间为 3 S.  
3 Second Max.at 100Vac input and output Max.load.

3.5 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 5 mS .  
5 mS Min.at 115Vac input and output Max.Load.

3.6 效率/Efficiency:

当 115/230Vac 输入电压时, 1/4, 1/2, 3/4 和满载计算平均效率, 最小 73.62%, 适配器满足能效 VI.  
73.62%Min,At 115/230Vac input voltage,1/4, 1/2, 3/4 and full load calculation average efficiency.Adapter meet efficiency lever VI .

**4、保护功能/PROTECTION FUNCTION:**

**4.1 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 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、环境要求/ENVIRONMENTAL REQUIREMET:**

**5.1 工作温度/Operating Temperature:**

0℃-35℃,满载,正常工作.

0℃ to 35℃,Full load, Normal operation.

**5.2 储藏温度/Storage Temperature:-20℃ to 60℃**

带外壳/With package

**5.3 工作湿度/Relative Humidity:**

5%(0℃)~90%(40℃),72 小时,满载,正常工作.

5%(0℃)~90%(40℃)RH,72Hrs,Full load, Normal operating.

**5.4 振动/Vibration:**

**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**

**加速度(9~200Hz,Acceleration 5m/S<sup>2</sup>)**

**2. 运输/Transportation:**

**IEC 721-3-2 2M2**

**5-9Hz,A=3.5mm**

**9~200Hz,加速度 Acceleration=5m/S<sup>2</sup>**

**200~500Hz,加速度 Acceleration=15m/S<sup>2</sup>**

**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 SAMPLE has to restore to its original situation after power off/on..

5.5 跌落试验/Dropping Packed:

插墙式跌落高度为 1 米、桌面式跌落高度为 760mm、6 个面各跌一次

1M for wallmount type and 760mm for desktop type as above described, 6 surfaces or one

测试台面是厚 13mm 的夹木板, 离地面高 19-20mm

The horizontal surface Consists of hardwood at least 13mm thick,mounted on two layers of plywood each 19mm to 20mm thick,all supported on a concrete or equivalent non-resilient floor.

6、安全要求/SAFETY REQUIREMENT:

6.1 主熔断器/ MAIN FUSE

2 Ω 保险电阻 Safety Resistor is 2 Ω

6.2 安全: 符合标准 EN60950 ; Safety:accord standard with EN60950 ;

电磁兼容标准 EMC-Specification : EN55032 ;

1. 干扰噪声抑制标准 Noise-suppressed acc : EN55022 ;

2.谐波电流的抑制标准 Harmonic current measurement acc : IEC61000-3-2 ;

3.抗静电的承受标准 Immunity to electrostatic discharge(ESD)acc:IEC61000-4-2 ;

空气放电 Air discharge: ±8KV ; 接触放电 Contact discharge: ± 4KV ;

4.抗干扰抑制标准 Immunity to radiated electromagnetic field acc:IEC61000-4-3;

测试条件 Test characteristic: 80-1000MHz; 80%AM(1KHz) 检验条件 Test level 3V/m : A ;

5. 抗快速脉冲群标准 Immunity to fast electric transients(burst)acc: IEC61000-4-4;

耦合方式 Coupling On power supplylines 测试条件 Test Level: 1KV Assessment criteria 评估标准: B ;

6.浪涌测试标准 Surge capability acc: IEC61000-4-5;

浪涌电压 Surge voltage: 1KV Assessment criteria 评估标准: B ;

7. 抗骚扰测试 Injected currents susceptibility acc: IEC61000-4-6;

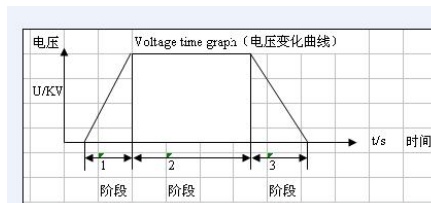
测试条件 Test Level: 3V/m Assessment criteria 评估标准: A ;

6.3 高压/DIELECTRIC STRENGTH Hi-Pot:

输入对输出/INPUT to OUTPUT :3000Vac/5mA/60S or 4242Vdc/5mA/60S for type test.

(批量生产时/Batch production: 3000Vac/5mA/3S)

1.Between input and output <输入 (2pin 脚短路) ---输出 (正, 负极短路)



2.电压输出变化曲线 Voltage time graph

6.4 绝缘抗阻/Insulation resistance:

输入对输出/INPUT to OUTPUT  $10M\Omega$  min at 500V DC.

7、结构参数/MECHANICAL REQUIREMENT: (单位: mm)

7.1 外壳/Enclosure:

外壳尺寸: L44.5x W40.5x H32.5mm;

The power supply size: L45x W40x H23mm;

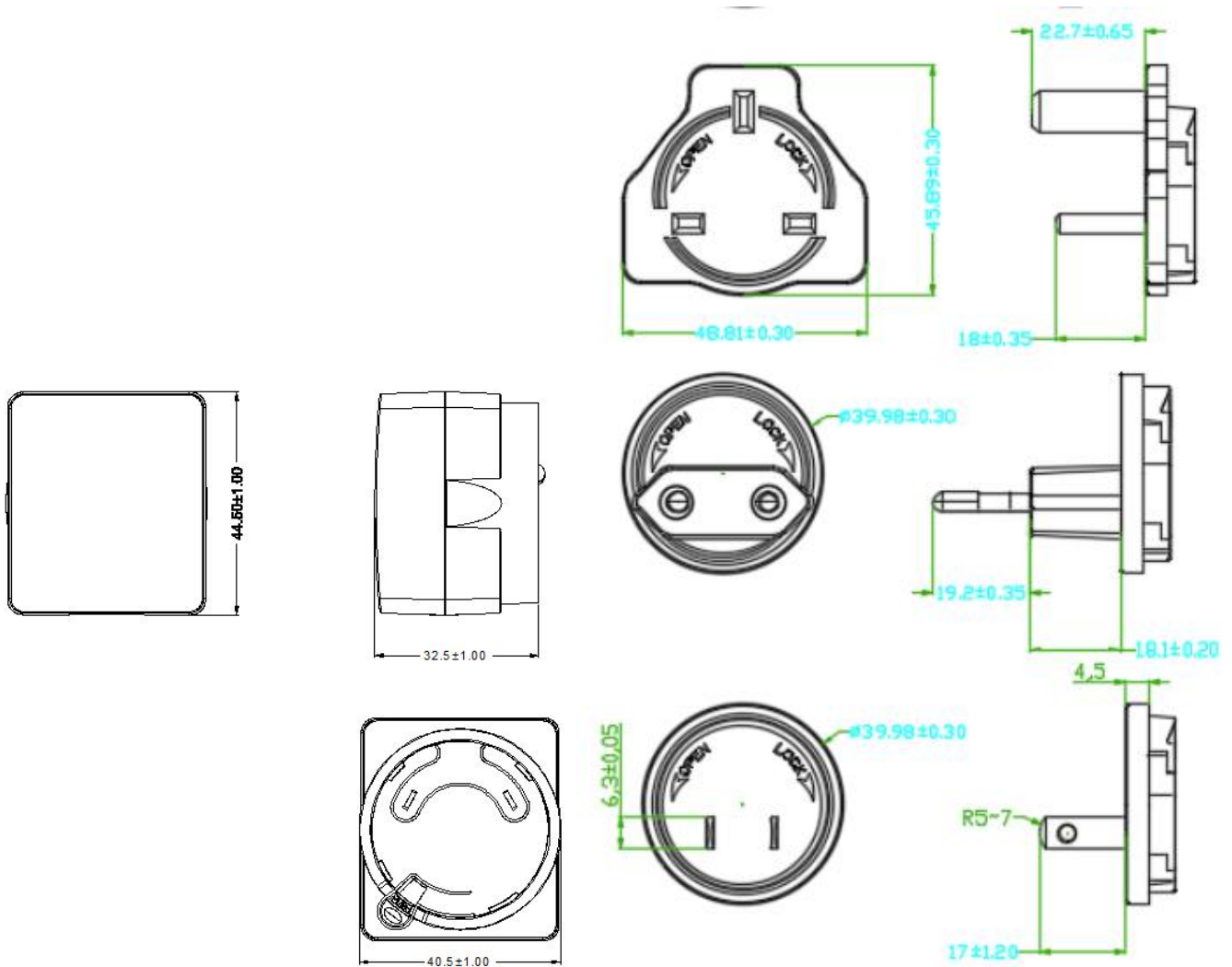
7.2 输入线/Input Connector:

可换插脚美、欧、英、/Two pin input plug of UL.EU.BS.

7.3 输出/Output

USB 大四 PIN 1 正 4 负, 2、3PIN 短路.

8、外观图 OUTLOOK DRAWING: mm



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8、线材/CORD: (单位: mm)

无线材



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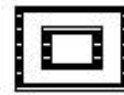
9、铭牌/LABEL:(单位: mm)

AC/DC POWER

MODEL / MODÈLE : YW1000M

INPUT / ENTRÉE : 100-240V~50/60Hz 0.2A

OUTPUT / SORTIE : 5.0V  1A



Made in China / Fabriqué en Chine

XXYY

居中镭射 灰色字

深圳市玖洲宝科技有限公司

Shenzhen Jiuzhou Power Technology Co., Ltd.

玖洲宝电子有限公司

样品测试报告/SAPLES TEST REPORT

产品型号 Model no		JZB110		样品单号 Part No		日期 Date		2019.12.05			
输入电压/频率 Input volt/Freq		100~240V 47~63HZ		输出电压/电流 Output volt/Amp		5V1A					
测试内容 Test content			1#样品/Sample No		2#样品/Sample No			判定 PASS/ NG			
NO	测试项目 Test item	测试标准 SPEC	115VAC	230VAC	115VAC	230VAC					
1	空载电压 Unload voltage	4.75-5.35V	5.16	5.12	5.12	5.09					
2	空载纹波与噪声 UnLoad ripple noise	<120mV	58.4	41.6	46.4	44					
3	满载电压 Rated load output voltage	4.75-5.35V	4.86	4.85	4.83	4.82					
4	满载纹波与噪声 Rated Load ripple noise	<120mV	71	56	84	65					
5	额定输入电流 Rated input current	≅0.2	98.9	69.93	98.82	68.44					
10	短路保护 Shortcircuit protection		OK	OK	OK	OK					
11	过流保护 Over current protection	1.1-1.5A	1.34	1.37	1.33	1.36					
14	介电强度测试 Hi-pot test	AC3.0KV 60S	<5mA	泄漏电流:							
15	绝缘阻抗 Insulation resistance	DC500V 5S	>10MΩ	绝缘阻抗:							
16	输入/Input		输出/Output				能源之星/Energy star			VI	
	电压/Voltage	功率 PIN(W)	负载 LOAD(%)	电压Vout (V)	电流 Iout(A)	功率 WATT (W)	效率 EFF%	平均效率 average eff%	能效标准 VI spec	空载功耗 Standby power(w)	
	115Vac	6.34	100%	4.87	1	4.87	76.81	77.60%		0.047	
		4.72	75%	4.883	0.75	3.66	77.54				
		3.1	50%	4.888	0.5	2.44	78.71				
		1.59	25%	4.914	0.25	1.23	77.35				
	230Vac	6.4	100%	4.856	1	4.85	75.78	74.43%		0.071	
		4.83	75%	4.884	0.75	3.66	75.77				
		3.26	50%	4.886	0.5	2.44	74.84				
		1.71	25%	4.902	0.25	1.22	71.34				
	17	AC100V/240V满载老化测试 Rated load burn in test at 100/240VAC		≥8 hours	无损坏NO damage:				OK	<input type="checkbox"/> NG	<input type="checkbox"/>
	测试/Tested by			核准/Checked by			批准/Approval by				