SPECIFICATION FOR APPROVAL

产品规格书

客户名称/CUSTOMER NAME:_____

客户编号/CUSTOMER NO:JYH-HRC-K013

客户物料号/CUSTOMER P.N._____

产品型号/MODEL NO: JYH5Z-0501000-BY

产品规格/SPEC: 5V 10A

样品编号: SAMPLE NO: JYH-JP201104-01

日期:DATE: 2020.11.10

产品颜色:

SAMPLE COLOR: Black ☑ White ☐

APPROVAL SIGNATURE/客户确认		
核准/APPROVED BY	审核/CHECKED BY	检测/TESTED BY

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A0	2020.11.10	新版本/New Rev.	黄春华

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1、描述/ DESCRIPTION:

本规格书适应于 **JYH5Z-0501000-BY** 型号的开关电源.

The purpose of the document is to specify the functional requirements of a **50W** switching power supply.

2、输入特性/INPUT CHARACTERISTICS:

2.1 输入电压/Input Voltage:

额定电压/Rated Voltage:100~240Vac

调整范围/Variation Range:90-264Vac

2.2 输入频率/Input Frequency:

额定频率/ Rated Frequency: 50/60Hz.

调整频率/Variation Frequency:47-63Hz

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 2.5A.

2.5Amps max At any input voltage and rated, DC output rated load.

2.4 浪涌电流/Inrush Current:

当输出为额定负载,环境温度为 25℃,输入 240Vac 冷态起机时的最大浪涌电流小于 **80**A.

80 Amps Max. Cold start at 240Vac input, with rated load and 25℃ ambient.

2.5 AC 漏电流/Ac Leakage Current:

当输入电压 240Vac 时,最大漏电流为 **0.75**mA.

0.75mA Max.At240Vac input.

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	待机功耗 Standby power	输出功率 Output power
5Vdc	0A	10A	0.21W Max	50W

3.2 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	输出电压范围 Output Range	纹波与噪声 Ripple and Noise
5Vdc	0A	10A	4.5-5.35V	240mVp-p

3.3 纹波和噪音 Ripple and Noise:

测试条件:在额定电压及额定负载条件下,使用示波器带宽为 20MHz 连接到充电器的输出端,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.

Under nominal voltage and nominal 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.

3.4 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 3S.

3Second Max.at 115Vac input and output Max.load.

3.5 上升时间/Rise time:

当输入 115Vac 和输出最大负载时最大时间为 40 mS.

40 mS Max.at 115Vac input and output Max load.

3.6 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.

3.7 效率/Efficiency:

在输入电压 115Vac 或 230Vac 时，平均效率大于 84 %. (注: 平均效率为输出电流 25%, 50%, 75%,100% 四种负载测试所得效率的平均值.)

The average efficiency is over 84% when the input voltage is 115 Vac or 230 Vac (Remark: The average efficiency is measured from four different active loads which are 25%, 50%, 75% & 100%.)

4、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 过压保护/Over Voltage Protection:

当输出电压超过 7.5V 时(满载情况下),电源将保护,故障排除后能恢复正常工作.

When the output voltage exceed 7.5V(under full load),the power supply will be protected. It will back to normal work after the trouble was cleaned.

4.3 过电流保护/ Over Current Protection

当输出操作电流超过 11-18A 时电源将保护,故障排除后能恢复正常工作

When the output current exceed 11-18A, the power supply will be protected. It will back to normal work after the trouble was cleaned.

5、环境要求/ENVIRONMENTAL REQUIREMET:

5.1 操作温/湿度要求/Operating Temperature and Relative Humidity

0℃ to +40℃

10%RH to 90%RH

5.2 存储温/湿度要求/Storage Temperature and Relative Humidity

-20℃ to +80℃

5%RH to 95%RH non-condensing @ Sea level shall be low 2,000 meter/低于 2,000 米.

5.3 振动/Vibration

10 to 300Hz sweep at a constant acceleration of 1.0G(Breadth: 3.5mm) for 1Hour for each of the perpendicular axes X, Y, Z

扫描频率: 10 to 300Hz, 加速度: 1.0G(位移: 3.5mm), X, Y, Z 三垂直坐标轴向各振动 1 小时

5.4 跌落/Drop in

Height: 1m; the product should be fell off on the hardwood with the thickness of 20mm, and the hardwood should be put on the base of the cement or on the ground without flexibility. Apply two times on all surface. Apply two times on all corner.

跌落高度:1 米, 并跌落到厚度为 20mm 的硬木上,且硬木应放在水泥基座或等同的无弹性地面上,每面各 2 次,每角各 2 次。

6、可靠性要求/Reliability Requirements:

6.1. Burn-in/老化

The power supply shall be burn-in for 4 Hours under normal input and 100% rated load at 40℃±5℃

产品至少要在 40℃±5℃的环境及 100%额定负载条件下煲机 4 小时

7、EMI/EMS 标准/EMI/EMS Standards

7.1 EMI Standards/EMI 标准

Country/国家	Certificate/证书	Standard/安规标准
Germany/德国	☑ CE	☑ EN55032; ☑ EN55024; ☑ EN55014
USA/CA/北美	☑ FCC	☑ Part15 Class B
China/中国		☐ GB9254 CLASS B

7.2 EMS Standards/EMS 标准

7.2.1 EN 61000-4-2,electrostatic discharge(ESD) requirement/静电抗扰度要求

Discharge characteristic/静电规格	Test level/测试条件	Test criteria/测试标准
Air discharge/空气放电	+/-8KV	B
Contact discharge/接触放电	+/-4KV	B

7.2.2 EN 61000-4-3,radiated electromagnetic field susceptibility(rs)/辐射骚扰场强

Test level/测试条件	Test criteria/测试标准
3V/m (r.m.s)	A
80-1000MHz,80%AM(1KHz) sine-wave	

7.2.3 EN 61000-4-4,electric fast transients(burst) immunity requirement/电快速瞬变脉冲群

Coupling/测试端口	Test level/测试条件	Test criteria/测试标准
AC-input/交流输入	0.5KV	A
AC-input/交流输入	1KV	B

7.2.4 EN 61000-4-5,surge capability requirement/浪涌抗扰度要求

Surge voltage/雷击电压	Test criteria/测试标准
Common mode/共模 +/-2KV	A
Differential mode/差模 +/-1KV	

7.2.5 EN 61000-4-6, Induced radio frequency fields conducted disturbances immunity requirement/电源端子传导骚扰实验

Test level/测试条件	Test criteria/测试标准
3V	A
0.15-80 MHz,80%AM(1KHz)	

8、安全要求/SAFETY REQUIREMENT:

8.1. 高压/DIELECTRIC STRENGTH Hi-Pot:

☐初级对次级: 3000Vac / 3.5mA / 60 秒(生产时高压测试时间: 3 秒)

或 4242Vdc / 3.5mA / 60 秒(生产时高压测试时间: 3 秒)

Primary to Secondary: 3000Vac / 3.5mA / 60 seconds(3 seconds for production)

or 4242Vdc / 3.5mA / 60 seconds(3 seconds for production)

☑初级对次级: 1800Vac / 3.5mA / 60 秒(生产时高压测试时间: 3 秒)

或 2412Vdc / 3.5mA / 60 秒(生产时高压测试时间: 3 秒)

Primary to Secondary: 1800Vac / 3.5mA / 60 seconds(3 seconds for production)

or 2412Vdc / 3.5mA / 60 seconds(3 seconds for production)

8.2. 绝缘抗阻/ Iusulation resistance:

在初级与次级间加 500Vdc 进行测试,最小 20MΩ

20MΩ min. at primary to secondary add a 500Vdc test voltage

8.3. 漏电流/Leakage Current

在输入 264Vac/50Hz 的条件下最大 0.25mA

0.25mAmax. at 264Vac / 50Hz

8.4. SAFETY STANDARD / 安规标准

The green mode power supply shall be certified by the following international regulatory standards:

充电器应符合下列的国际标准：

Country/国家	Certificate/证书	Standard/安规标准
Global/全球	☑ CB	☑ IEC62368-1;☐ IEC60950-1; ☐ IEC61558-2-16;☐ IEC60335-1
Germany/德国	☑ TUV/ GS	☑ EN62368-1;☐ EN60950-1; ☐ EN61558-2-16;☐ EN60335-1
USA/CA/北美	☑ UL/CUL	☑ UL/CSA62368-1; ☐ UL/CSA60950-1;
	☐ ETL	☐ ETL/CSA1310;
Korea/韩国	☐ KC	☐ K60950-1
Japan/日本	☑PSE	☑ J60950-1; J61558
AU/澳洲	☐ SAA/RCM	☐ AS/NZS 60950.1:2015&AS/NZS 3112:2011
CN/中国	☐ CCC	☐ GB4943.1-2001;GB17625.1-2012;GB/T9254-2008
	☐ CQC	☐ GB4706.1-2005;GB17625.1-2012

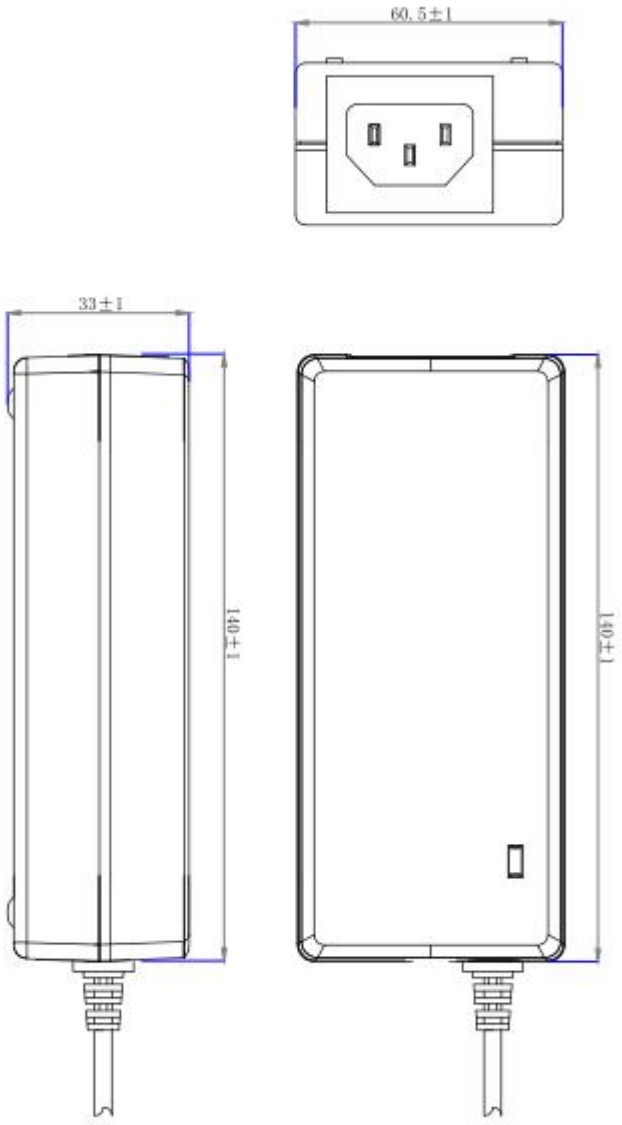
9、 结构参数/MECHANICAL REQUIREMENT:

9.1 外壳/Enclosure:

外壳尺寸: L140 x W60.5 x H33mm;

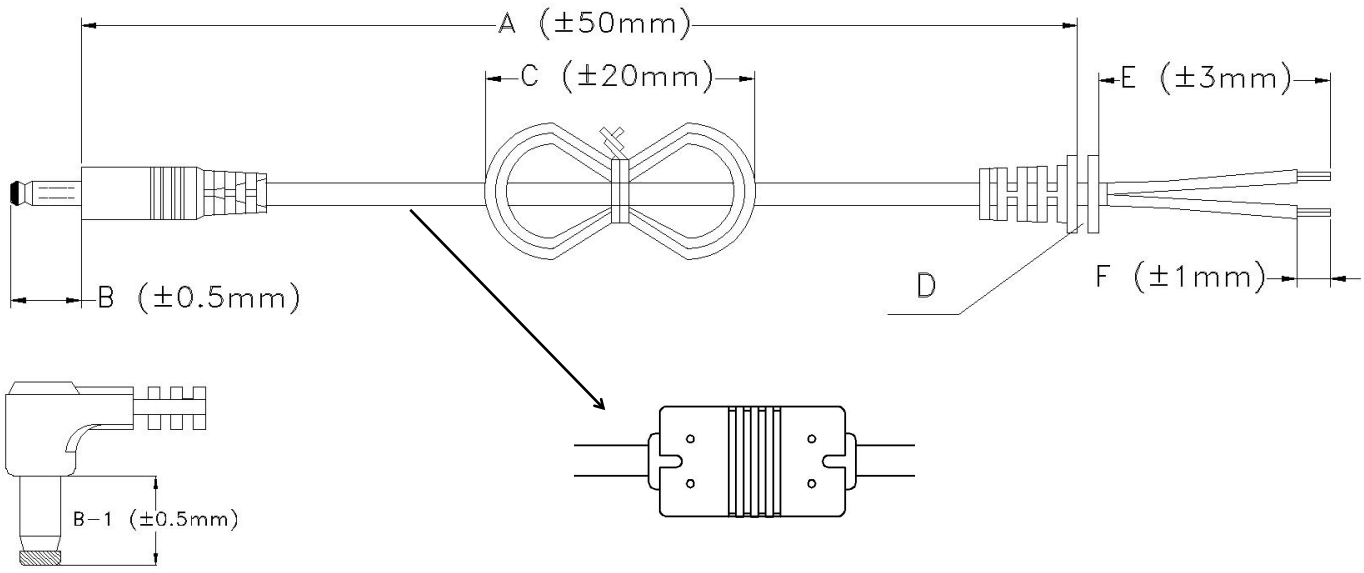
The power supply size: L140 x W60.5 x H33mm;

AC PULG AC 插头：IEC320-C14/品字座



Material/材料：	☑PC：耐温 120℃/ temperature resistance 120℃&符合球压测试要求/ remark：PC texture
	☐ PC+ABS：耐温 95℃/ temperature resistance 95℃
Fireproof Class/防火等级：	UL94V-0

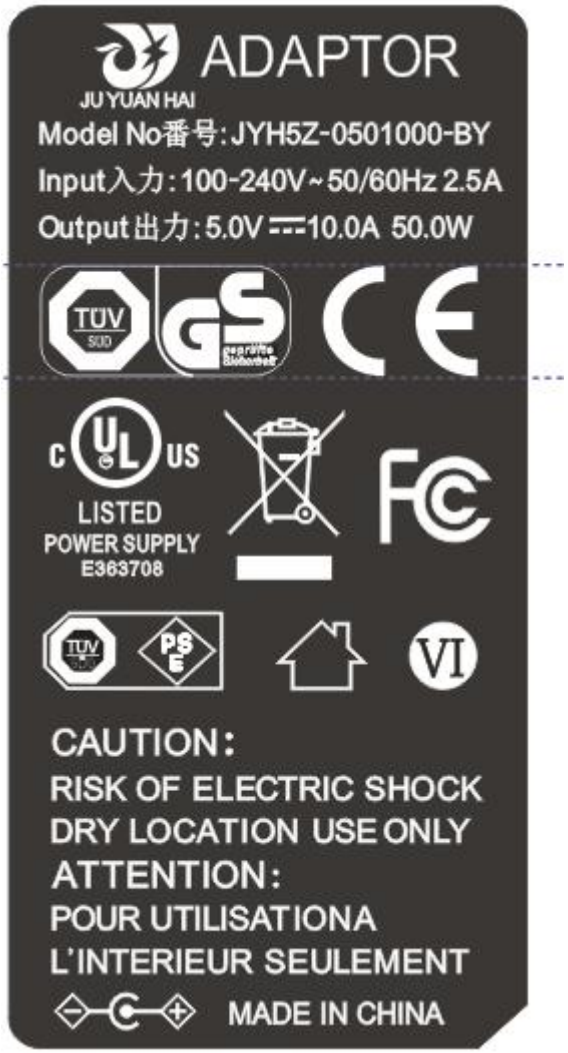
10、 线材/CORD：



☐ B-1　　☑ 带磁环

Cable Specification/线材规格		UL2464 16AWG　Black 80'C
Item No	Part Name（部件名称）	Description（描述）
A	Length of DC cord(DC 线长度）	1.2M
B	Size of DC connector（DC 头尺寸）	5.5*2.1*11mm
C	Length of coil（线包长度）	80mm
D	SR NO(线卡编号）	7*9
E	Length of inlet wire（出线长度）	30mm
F	Tinned length（吃锡长度）	4mm

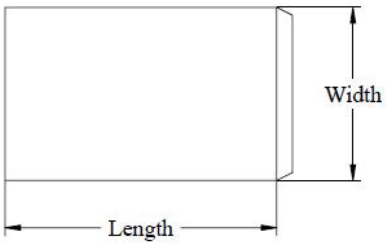
11、 铭牌 / RATING LABEL

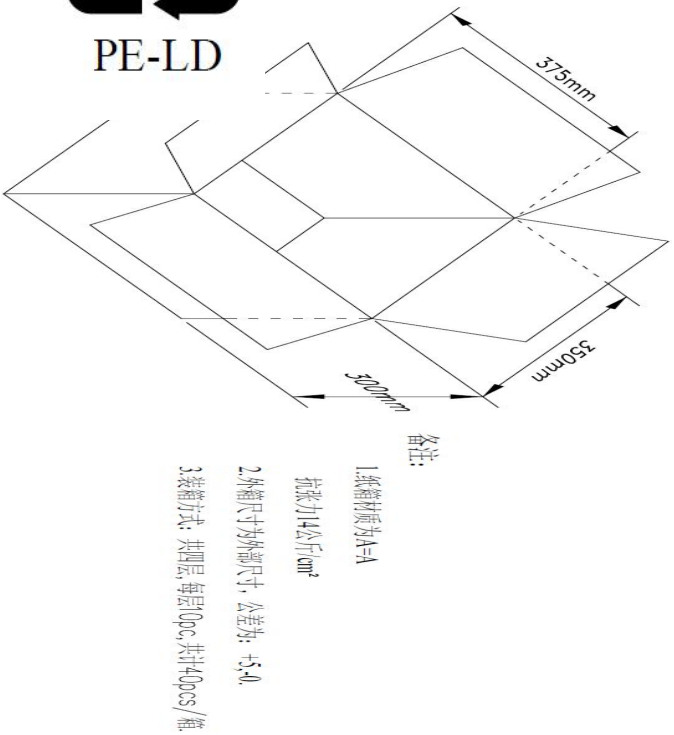


	☑ Print/印刷	☐ Laser Carving/镭雕
1	黑底银字/Silver text on black background	
2	Material: PET 底材为消银龙.	
3	耐温 100℃-/Temperature under 100°C.	
4	丝印清晰, 耐擦拭/Silk Screen printing, wipe resistance。	
5	永久背胶/Everlasting Gummed.	
6	符合环保要求/Compliance to RoHS.	

12、包装说明/PACKING:

☑ PE BAG　　BOX （☐ Normal BOX　☐ Corrugated BOX）





☑包装方式：	袋子+白盒（40PCS）	外箱尺寸：	L:37.5*W:350*H:300mm
☐包装方式：	牛皮盒+袋子	白盒尺寸：	L:170*W:70*H:70mm
每箱数量：	40PCS	唛　　头：	