

承认书

RoHS

SPECIFICATION FOR APPROVAL

Switching power Supply/开关电源

客 户/Customer: Y051

输入/Input: 100~240Vac 50/60Hz 输出/Output: 5.0Vdc 4.0A

客户零件号/Customer Part No.: _____

机种型号/Our Model No.: GW30W-050400CH

产品编号/Product No.: GW.002401 样品编号/Sample No.: S03012

版本/REV.: B ISSUE 日期/Date: 2023-07-15

产品颜色/Unit Color: Black ☐ White ☒

符合环保项: RoHS 2.0 ☒

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	品管/QE
YanJiYuan	Zhu MingShuang	ZengTao	ZhuBenXian

SHENZHEN K-TECH TECHNOLOGY CO.,LTD

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GW-POWER 深圳市冠伟科技有限公司 SHENZHEN K-TECH TECHNOLOGY CO.,LTD	型号/Our model: GW30W-050400CH	
	产品编号/ Product No: GW.002401	
	客户零件号/Customer P/N:	
	日期/Date:2023-07-15	REVISIONS: B

Rev. List/版本目录

Item	Description/描述	Rev.	Date	Designed By	Checked By
1	First Rev./ 第一版	A	2023-07-08	ChenJiaoXing	ZhuMingShuang
2	Change nameplate content/变更铭牌内容	B	2023-07-15	ChenJiaoXing	ZhuMingShuang
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	日期/Date:2023-07-15	REVISIONS: B

INDEX/目录

1	INPUT CHARACTERISTICS/输入特征	4
2	OUTPUT CHARACTERISTICS /输出特征	4
3	ENVIRONMENTAL REQUIREMENTS/环境要求	5
4	REGULATORY COMPLIANCE/法规	6
4.1	EMC Specifications/EMC 规范	6
4.1.1	Radiated and Conducted Emission/辐射和传导	6
4.1.2	Electrostatic Discharge Immunity/静电放电	6
4.1.3	Radiated Field Immunity/射频电磁波抗干扰	6
4.1.4	Fast Transient Immunity/电压快速瞬变脉冲群抗干扰	6
4.1.5	Surge Immunity/雷击抗干扰测试	6
4.1.6	Dropping Packed/跌落测试	7
4.2	Safety Requirements and Certification/安全要求和证书	7
4.2.1	Safety/安全	7
4.2.2	Additional Safety Requirements 附加安全要求	7
5	APPEARANCE DRAWING/外观图: (Unit: mm)	8
6	NAME PLATE/铭版图:	9
7	DIMENSION OF OUTPUT PLUG & DC CORD/输出线和 DC 头图 (Unit: mm)	10
8	PACKING/包装 (Unit: mm)	11
9	TEST REPORT/测试报告	12

GW-POWER 深圳市冠伟科技有限公司 SHENZHEN K-TECH TECHNOLOGY CO.,LTD	型号/Our model: GW30W-050400CH	
	产品编号/ Product No: GW.002401	
	客户零件号/Customer P/N:	
	日期/Date:2023-07-15	REVISIONS: B

1 INPUT CHARACTERISTICS/输入特性

The Supply shall operate over the voltage ranges as follows/电压供应应该满足如下条件:

Rated input voltage 额定输入电压	100-240Vac
Operating range 工作范围	90-264Vac
Rated input frequency 额定输入频率	50/60Hz
Variation Frequency 调整频率	50/60Hz +/- 3Hz
Rated input current 额定输入电流	0.7A Max.
Primary current protection 初级电流保护	An adequate internal fuse on the AC input line is provide 在 AC 端 提供保险丝保护
Power consumption (no loading) 功耗（空载）	0.1W Max. (Input voltage 115V and 230V) 在输入电压115V 和230V 条件下0.1W 最大
Configuration 结构	Class II Conductor II 类电源

2 OUTPUT REQUIREMENTS/输出特性

2.1	Dc output voltage 直流输出电压	5.0V
2.2	Minimum load current 最低负载电流	0A
2.3	Rating load current 额定负载电流	4.0A
2.4	Rating output power 额定输出功率	20.0W
2.5	Line regulation 线性调整率	The line regulation is less than $\pm 7\%$ while measuring at rated load and $\pm 10\%$ of input voltage changing. 额定输入电压 $\pm 10\%$ 内变化, 带额定负载, 线性调节小于 $\pm 7\%$.
2.6	Load regulation 负载调整率	The load regulation for <u>+5.0V</u> is less than $\pm 7\%$, at measured output load from 0% to 100% rated load . <u>+5.0V</u> 的负载调整率小于 $\pm 7\%$,在测量输出负载从 0%到 100%额定负载。

GW-POWER 深圳市冠伟科技有限公司 SHENZHEN K-TECH TECHNOLOGY CO.,LTD	型号/Our model: GW30W-050400CH	
	产品编号/ Product No: GW.002401	
	客户零件号/Customer P/N:	
	日期/Date:2023-07-15	REVISIONS: B

2.7	Ripple and noise 纹波和噪音	150mVp-p Max.
		At 115/230Vac 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. 测试条件:在输入 115/230Vac 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.
2.8	Average Efficiency 平均效率	83.08%Min,At 115/230Vac input voltage,1/4,1/2,3/4 and full load calculation average efficiency. Adaptor meet efficiency level VI of DOE and Erp. 在 115/230Vac 输入电压时,1/4,1/2,3/4 和满载计算平均效率, 最小 83.08%,适配器满足 DOE 以及 Erp 能效六级.
2.9	Turn on delay time 启动延迟时间	3Second Max.at 115Vac-230Vac input and output Max.load. 当输入 115Vac-230Vac 和输出最大负载时,最大启动时间为 3S.
2.10	Rise time 上升时间	20 mS Max.at 115Vac input and output Max load. 当输入 115Vac 和输出最大负载时最大时间为 20 mS.
2.11	Hold up time 保持时间	10 mS Min.at 115Vac input and output Max.Load. 当输入 115Vac 和输出最大负载时,最小保持时间为 10 mS .
2.12	Over-shoot 过冲	10% Max.When power supply at turn off/on. 在电源开启或关闭的时候,最大10%.
2.13	Over voltage protection 过压保护	The power supply shall be hiccup mode, when the output is over voltage, and the power supply shall not be damaged and shall be self-recovery when the fault condition is removed. 当输出过压时,电源将进入打嗝保护模式, 产品不会损坏, 故障状态消除后, 电源自动恢复正常工作.
	Over current protection 过流保护	The power supply will be auto recovered when over current faults remove. 过流故障排除后,电源将自动恢复正常工作.
2.14	Short circuit protection 短路保护	The power supply will be auto recovered when short circuit faults remove. 短路故障排除后,电源将自动恢复正常工作.

3 ENVIRONMENTAL REQUIREMENTS/环境要求

The Supply shall operate over the voltage ranges as follows/电压供应应该满足如下条件:

Temperature/温度	Operating/工作温度: <u>0 °C +40 °C</u>
	Non-Operating/存储温度: <u>-20 °C +80 °C</u>
Humidity/湿度	Operating 工作湿度: 10%~90% (Non Condensing)
	Non-Operating 存储湿度: 10%~90% (Non Condensing)

GW-POWER 深圳市冠伟科技有限公司 SHENZHEN K-TECH TECHNOLOGY CO.,LTD	型号/Our model: GW30W-050400CH	
	产品编号/ Product No: GW.002401	
	客户零件号/Customer P/N:	
	日期/Date:2023-07-15	REVISIONS: B

4 REGULATORY COMPLIANCE/法规

4.1 EMC Specifications/EMC 规范

The external power supply must meet all specification in this section.
外部电源必须满足本节中所有规范.

4.1.1 Radiated and Conducted Emission/辐射 传导

EN55032, Class B for radiated and conducted emissions.
FCC part 15: Class B for radiated and conducted emissions.
GB9254, GB17625.1

4.1.2 Electrostatic Discharge Immunity/静电放电

EN 61000-4-2

- Air Discharge: ±8kV
- Contact Discharge: ±4kV
- Performance Criteria B

Electrostatic-discharge test by contract or air should be conducted with Static-discharge tester, energy storage capacitance of 150pF, and discharge resistance of 330Ω, 8KV air discharge, 4KV contact discharge.

4.1.3 Radiated Field Immunity/射频电磁波抗干扰

EN 61000-4-3

Frequency Range: 80-1000MHz

Field Strength: 3 V/m with 80% amplitude modulation of 1 kHz

Performance Criteria A

Radio-frequency electromagnetic field susceptibility test, RS 80-1000MHz, 3V/m, 80%AM(1KHz).

4.1.4 Fast Transient Immunity/电压快速瞬变脉冲群抗干扰

EN 61000-4-4

- Power line: 1kV
- Signal line: 0.5kV
- Performance Criteria B

4.1.5 Surge Immunity/雷击抗干扰测试

EN 61000-4-5

- 1.2/50 usec Open Circuit voltage
- 8/20 usec Short Circuit current
- Power line: 1kV
- Line to Earth: 2kV

Lightning Surge Voltage shall be applied in differential and common mode to AC input lines and cross primary ac input and secondary GND.

GW-POWER 深圳市冠伟科技有限公司 SHENZHEN K-TECH TECHNOLOGY CO.,LTD	型号/Our model: GW30W-050400CH	
	产品编号/ Product No: GW.002401	
	客户零件号/Customer P/N:	
	日期/Date:2023-07-15	REVISIONS: B

4.1.6 跌落试验/Dropping Packed:

插墙式跌落高度为 1 米、桌面式跌落高度为 750mm;

1M for direct plug-in equipment and 750mm for desk-top or table-top equipment;

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.

4.2 Safety Requirements and Certification/安全要求和认证

4.2.1 Safety/安全

for short/简写	Country 国家(地区)	Certified Status 证书状态	Standard/标准
CCC	China/中国	MEET	GB4943.1

4.2.2 Additional Safety Requirements/附加安全要求

耐压: Dielectric Withstand Voltage, Primary(input AC short)-to-Secondary(output DCshort):

3000Vac or 4242Vdc, 5mA, 1 minute. (60 s for QA/3 s for production tests)

绝缘阻抗: Insulation Resistance, Input to output: 20MΩ(MIN.) at 500Vdc.

漏电流: The leakage current shall not exceed 0.25mA.

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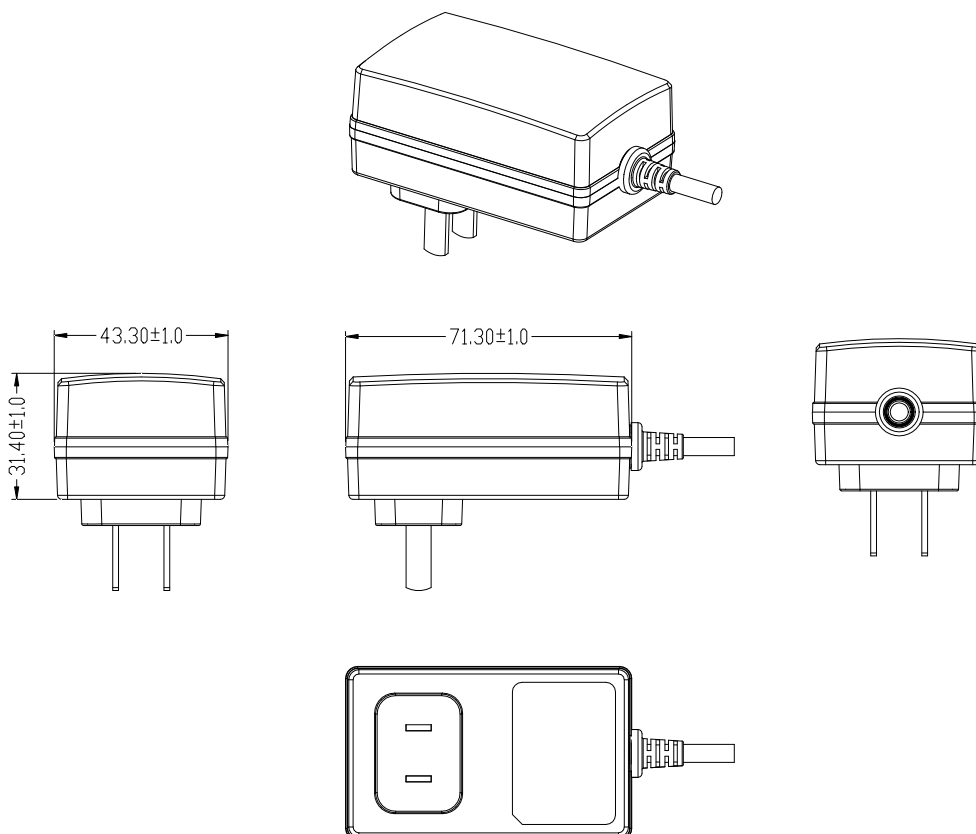
型号/Our model: GW30W-050400CH

产品编号/ Product No: GW.002401

客户零件号/Customer P/N:

日期/Date:2023-07-15

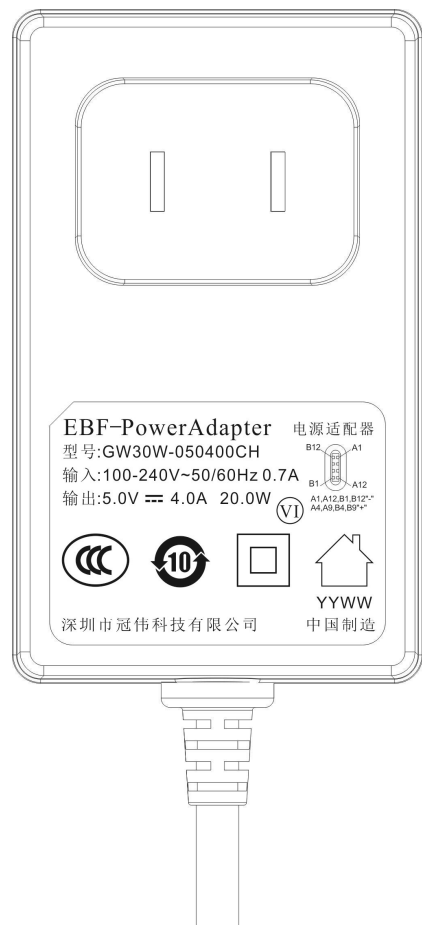
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5 APPEARANCE DRAWING/外观图: (Unit: mm)

- NOTE: 1. Case cover & chassis materia: PC
2. AC PIN MATERIAL/AC: BRASS
3. Weight: about $\approx$ 130.0g
4. Color: White
5. ROHS 2.0

GW-POWER 深圳市冠伟科技有限公司 SHENZHEN K-TECH TECHNOLOGY CO.,LTD	型号/Our model: GW30W-050400CH	
	产品编号/ Product No: GW.002401	
	客户零件号/Customer P/N:	
	日期/Date:2023-07-15	REVISIONS: B

6 NAME PLATE/铭版 (Unit: mm):



- ☒ 1. Laser/镭射
DATE CODE/ 周期(YYWW:, YY=YEAR/年, WW=WEEK/周)按实际生产日期
- ☒ 2. Wire connection: A1,A12,B1,B12 : "-" A4,A9,B4,B9: "+"

This nameplate is designed according to customer requirements and is not a standard version of Guanwei. Any issues arising from this will be borne by the client
此铭牌是根据客户要求设计，非冠伟标准版，由此产生的任何问题，由客户端承担。

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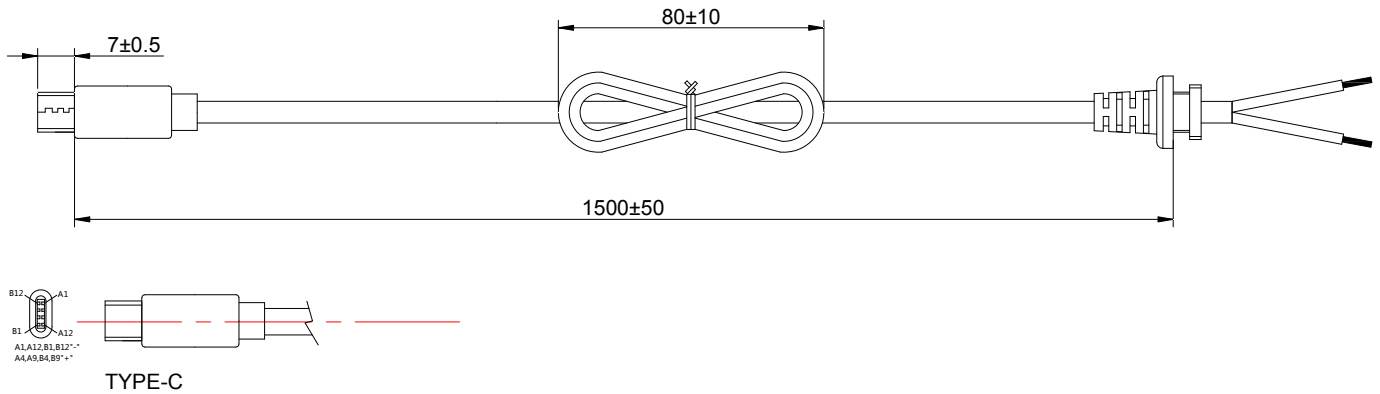
型号/Our model: GW30W-050400CH

产品编号/ Product No: GW.002401

客户零件号/Customer P/N:

日期/Date:2023-07-15

REVISIONS: B

7 DIMENSION OF OUTPUT PLUG & DC CORD/输出线和 DC 头图 (Unit: mm)**NOTE:**

1. UL 2464 18AWG Ø4.1 80 °C 300V VW-1 L=1500±50mm;
2. PLUG: TYPE-C;
TYPE-C connection: A1,A12,B1,B12:"- A4,A9,B4,B9:"+",
3. Color: White;
4. RoHS 2.0

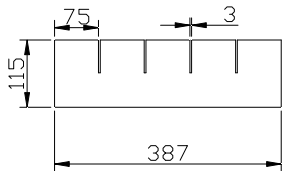
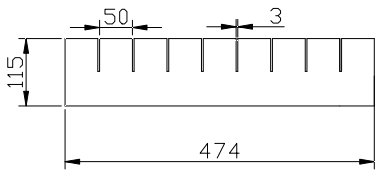
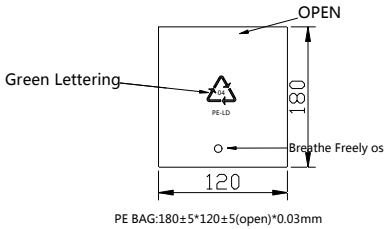
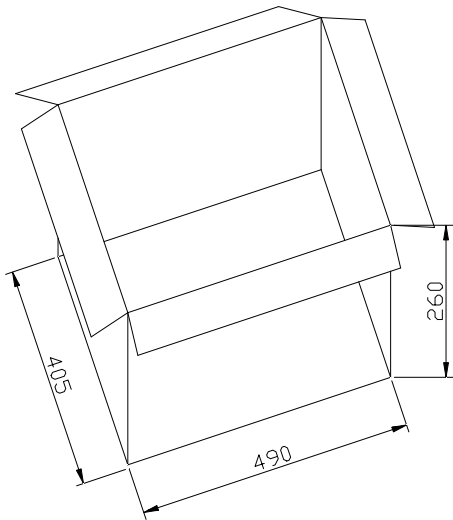
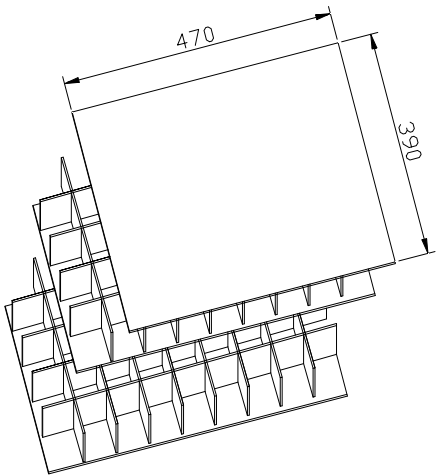
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	产品编号/ Product No: GW.002401	
	客户零件号/Customer P/N:	
	日期/Date:2023-07-15	REVISIONS: B

8 **PACKING/包装 (Unit: mm)**

外箱印刷图面:

(Printing surface of outer box:)

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Packaging/包装:
 Corrugated board/刀卡:
 A:L387*H115mm*T2mm;
 B:L474*H115mm*T2mm;
 outside carton size/外箱尺寸:
 L490*W405*H260mm K=K
 Salb/平板: L470*W390mm
 Quantity/数量:90pcs/CTN.
 Each outside box placed 90 products,
 divided into 2 layers, each layer of 5 rows
 and 9 columns/每个外箱放置90个产品,
 分为2层, 每层5行9列。

GW-POWER	深圳市冠伟科技有限公司 SHENZHEN K-TECH TECHNOLOGY CO.,LTD	型号/Our model: GW30W-050400CH	
		产品编号/ Product No: GW.002401	
		客户零件号/Customer P/N:	
		日期/Date:2023-07-15	REVISIONS: B

9
 Test report/测试报告

No 序号	Test item 测试项目	Test condition 测试条件	Standard spec 标准规格	Test data 测试数据		Unit 单位	Judge 判定
				1	2		Pass/ Fail
1	Output Voltage 输出电压	Vin100Vac 60Hz Io=0 输入 100Vac 空载	±7%	5.24	5.25	V	Pass
2	Output Voltage 输出电压	Vin100Vac 60Hz Io=Rated Current 输入 100Vac 60Hz 额定电流	±7%	4.72	4.75	V	Pass
3	Ripple&Noise mVp-p 纹波&杂讯	Vin100Vac 60Hz Full load 输入 100Vac 60Hz 满载	≤150 mVp-p	62	72	mVp-p	Pass
4	Average Efficiency 平均效率	Vin 115Vac 60Hz 输入 115Vac 60Hz	83.08 % Min	83.62	83.66	%	Pass
5	Standby Power 待机功耗	Vin 115Vac 60Hz Io=0 输入 115Vac 60Hz	0.1 W max	0.03	0.03	W	Pass
6	Line Regulation 线性调整率	Vin=100V~240V Io=Rated Current 额定电流输出	±7%	OK	OK	±7%	Pass
7	Short circuit test 短路测试	Vin100Vac 60Hz 输入 100Vac 空载	No odor smoke fire plastic deformation and excessive heat happen. 无冒烟,起火,外壳变形及过热 现象	OK	OK		Pass
8	OCP 过电流保护	Vin100Vac 60Hz 输入 100Vac	A	5.80	5.90	A	Pass
9	Output Voltage 输出电压	Vin240Vac 50Hz Io=0 输入 240Vac 空载	±7%	5.24	5.25	V	Pass
10	Output Voltage 输出电压	Vin240Vac 50Hz Io=Rated Current 输入 240Vac 60Hz 额定电流	±7%	4.71	4.75	V	Pass
11	Ripple & Noise mVp-p 纹波&杂讯	Vin240Vac 50Hz Full load 输入 240Vac 50Hz 额定电流	≤150 mVp-p	58	73	mVp-p	Pass
12	Average Efficiency 平均效率	Vin230Vac 50Hz 输入 230Vac 50Hz	83.08 % Min	83.41	83.51	%	Pass
13	Standby Power 待机功耗	Vin230Vac 50Hz Io=0 输入 230V 50Hz	0.1 W max	0.06	0.06	W	Pass
14	Line Regulation 线性调整率	Vin=100V~240V Io=Rated Current 输入 100V~240V	±7%	OK	OK	±7%	Pass
15	Short circuit test 短路测试	Vin240Vac 50Hz 输入 240Vac 50Hz	No odor smoke fire plastic deformation and excessive heat happen. 无冒烟,起火,外壳变形及过热 现象	OK	OK		Pass
16	OCP 过电流保护	Vin230Vac 50Hz 输入 230Vac 50Hz	A	5.70	5.80	A	Pass
17	Hi-pot test 高压测试	高压/DIELECTRIC STRENGTH Hi-Pot: 初级对次级 /Primary to secondary: 3000Vac/5mA/60S or 4242Vdc/5mA/60S for type test		OK	OK		Pass
18	Burn in 老化	Input:220Vac/50Hz Full Load 4hrs 输入 220Vac/50Hz 满载 4 小时		OK	OK		Pass
19	Drop test 跌落	Heigh: 1m Three*fes(once on each plane) 高 1 米,3 个面,每面 1 次.		OK	OK		Pass