

型号/MODEL: CP0154-0503000C6
客户/CUSTOMER:
日期/DATE: 2025.9.2 版本: A0
样品编号/NO: ABPS251637

承 认 书

SPECIFICATION FOR APPROVAL

客 户:
CUSTOMER: _____

客户料号:
CUSTOMER PART NO: _____

公司料号:
COMPANY PART NO: _____

型号: CP0154-0503000C6

PART NO: _____

品名: 5V3A 转换头单 C 白色

DESCRIPTION: _____

编制日期: 2025.9.2

DATE : _____

制造商 manufacture				请客户确认回传我司存档，谢谢
制作	工程审核	安规审核	批准	
making	checked	checked	approved	
周宝莲	何元吉			

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E. C. LIST/变更履历表

[illegible]

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1. SCOPE/ 概述

This specification applies only to CP0154-0503000C6 of adapter.

本规范仅适用于 CP0154-0503000C6 类型的适配器。

1.1 Description/描述

- ☐ SMPS Adaptor(Wall mount)/插墙式适配器 ☐ SMPS Adaptor(Desk-top)/桌面型适配器
- ☐ Open Frame/开放式结构 ☒ USB CHARGER/USB 充电器
- ☐ Others/其他

2. Input Characteristics/输入特性

2.1 Input Voltage & Frequency/输入电压与频率

The range of input voltage is from 90Vac to 264Vac single phase.

输入电压范围: 从 90Vac 到 264Vac, 单相输入.

	Minimum/最小	Nominal/额定值	Maximum/最大
Input Voltage/输入电压	90Vac	100Vac~240Vac	264Vac
Input Frequency/输入频率	47Hz	60Hz/50Hz	63Hz

2.2 Input AC Current/AC 输入电流

0.5A max. @ 100-240Vac input & Full load/满载

2.3 Inrush Current (cold start)/浪涌电流(冷启动)

60Amax. @ 230Vac input

2.4 Average Efficiency/Energy Consumption 平均效率 /空载功耗-

Rated Output /额定输出	Rated load / 额定负载	The efficiency of 效率	Energy Consumption /空载功 耗, 在额定输入 115/230V 时,空 载功耗	备注 Remark
5.0V	3.0A	>81.39%	≤0.1W	

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3. Output Characteristics/输出特性

3.1 Static Output Characteristics <Vo & R+N>/静态输出特性

Output Rate	Rated Load/额定负载		Output Range 输出电压范围	R+N 纹波与噪声	Remark 备注
	Min. Load	Max. Load			
5.0V	0.0A	3.0A	4.7V-5.3V	≤200mVp-p	

3.1.2 Ripple & Noise: Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF electrolysis capacitor. (test under the condition of rated input and rated output)

纹波与噪声: 量测时示波器选用 20MHz 带宽限制,输出端要并联一颗 0.1uF 的陶瓷电容和一颗 10uF 的电解电容. (在额定输入及输出的条件下检测)

3.2 Line/ Load Regulation/线性/负载调整率

Output Rate	Load Condition/负载条件		Line Regulation 线性调整率	Load Regulation 负载调整率	Remark 备注
	Min. Load	Max. Load			
5.0V	0.0A	3.0A	± 1%	± 6%	

3.3 Turn - on Delay Time/开机延迟时间

3S max. @ 100Vac to 240Vac input & Full load/满载

3.4 Hold-up Time/关机维持时间

10mS min. @ Full load &115Vac/60Hz input turn off at worst case/在最差情况关机

20mS min. @ Full load &230Vac/50Hz input turn off at worst case/在最差情况关机

3.5 Rise Time/上升时间

20mS max. @ Rated load/额定负载

3.6 Fall Time/下降时间

20mS max. @ Full load/满载

3.7 Output Overshoot / Undershoot/输出过冲/欠冲

10% max. When the power on or off/当电源开/关机时

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4. Protection Requirements/保护要求

4.1 Over Current Protection/过流保护

Over Current Point Limited/过流点限制:≤150% of rated load (100-240Vac)

The output shall hiccup when the over currents applied to the output rail, and shall be self-recovery when the fault condition is removed

当过电流时,输出将进入打嗝模式,当过流情况解除后,产品将会自动恢复正常。

4.2 Short Circuit Protection/短路保护

When output occur short circuit,usb charger enter hiccup mode,when short circuit situation solved,product will automatically recover to work .

当输出短路时,电源自动保护，进入打嗝模式，当短路情况解除后,产品将会自动恢复正常

5. Environment Requirements/环境要求

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

0°C to +40°C

10%RH to 90%RH

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

-20°C to +80°C

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

5.3 Vibration/振动

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 Drop in/跌落

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 one times on all surface.

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 1 次。

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6. Reliability Requirements/可靠性要求

6.1 Burn-in/煲机

The power supply shall be burn-in for 4 Hours under normal input and 80% rated load at25°C ± 5°C 。产品至少要在 25°C ± 5°C的环境及 80%额定负载条件下煲机 4 小时。

7. EMI/EMS Standards/EMI/EMS 标准

7.1 EMI Standards/EMI 标准

EN55032/35、 FCC Part15 Class B、 AS/NZS CISR32/35

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
30-1000MHz,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 N/A	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
0.15-30 MHz,80%AM(1KHz)	

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7-2-6 Assessment criteria /评估标准

Acceptance criteria 可接受标准	Performance 性能
A	Agreed operational behavior within the specified limits 性能不允许变化; 如果性能会发生变化, 则变化的范围在产品规格书规定的范围内.
B	Time limited functional diminishment or malfunction during the tests is permitted. The function is self-reactivated by the unit following completion of the tests. 设备在测试过程中,性能降低允许在产品规格书要求范围内,干扰消除后,设备能恢复正常,不允许出现复位和任何方式的人工干预.
C	Malfunction is permitted .The function can be reactivated either by reconnection to the mains or by operator intervention. 在测试过程中, 设备允许出现业务中断, 测试完毕后允许自行恢复或者人工干预恢复 (包括硬件上干预); 测试中只允许初级防护器件损坏, 并且更换损坏的初级防护器件后, 设备能恢复正常

8. Safety Standards/安规标准

8.1 Dielectric Strength(Hi-pot)/介电耐压强度(高压)

Primary to secondary test of engineering sample stage: 3000 Vac / 5mA Max / 60 seconds

工程样品阶段初级对次级测试:3000Vac/5mA Max/60 秒

Primary to secondary test in batch delivery phase: 3300 Vac / 5mA Max / 2 seconds

批量交货阶段初级对次级测试:3300Vac/5mA Max/2 秒

8.2 Insulation Resistance/绝缘阻抗

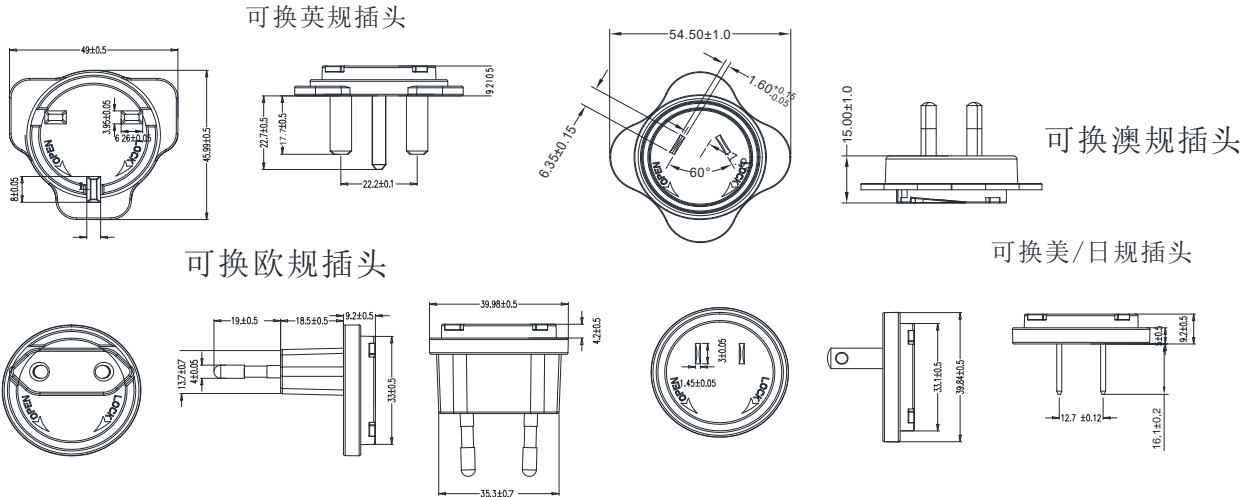
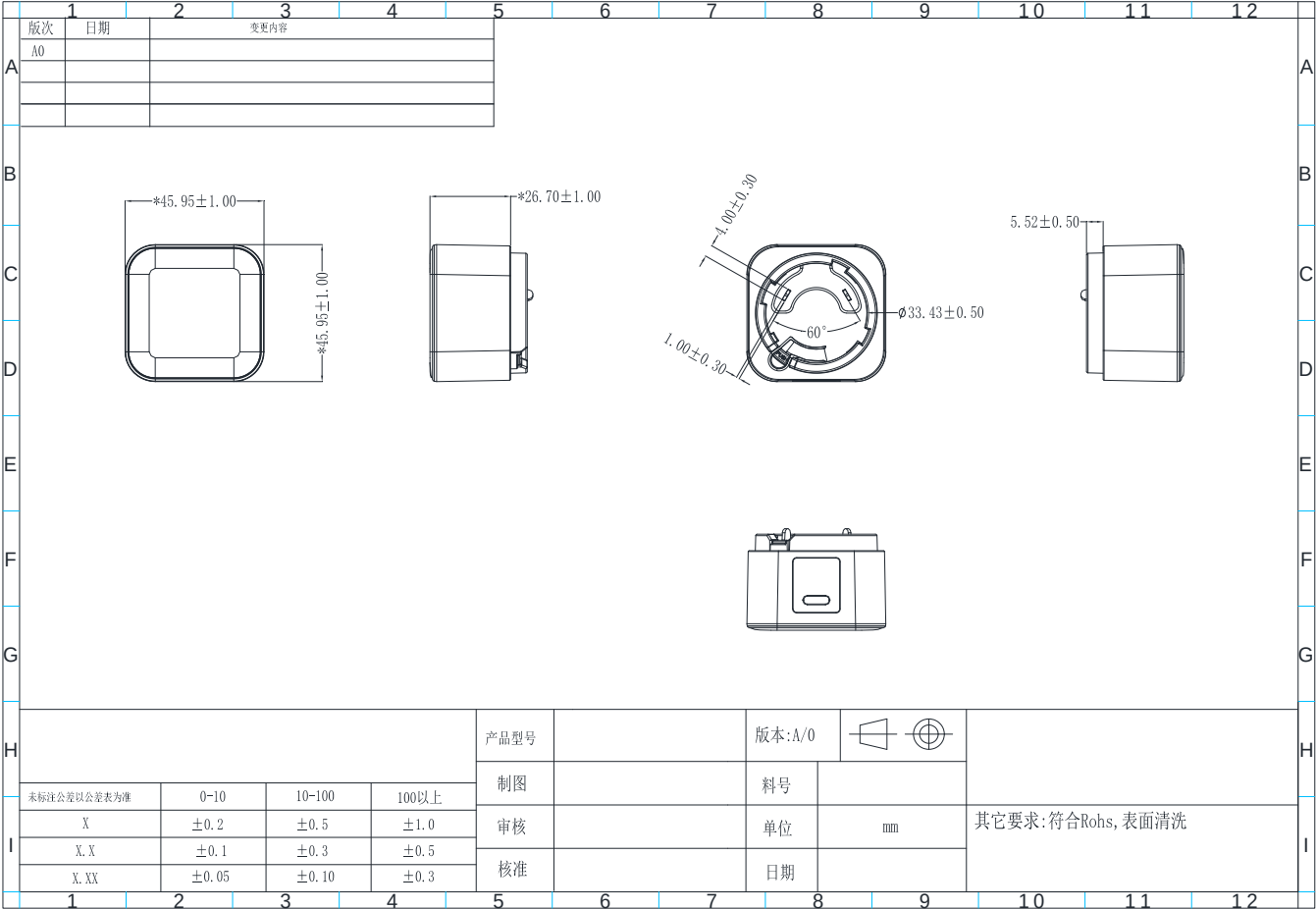
50MΩ min. at primary to secondary add 500Vdc test voltage 在初级与次级间加 500Vdc 进行测试

8.3 Regulatory Standards/安规标准

Type/安规	Country/国家	Standard/标准	State/状况	Note/备注
CE	Europe/B.U.K	EN62368-1	已认证	
ETL/FCC	USA	ETL62368-1	已认证	
SAA	Australia	AS/NZS 62368-1	已认证	

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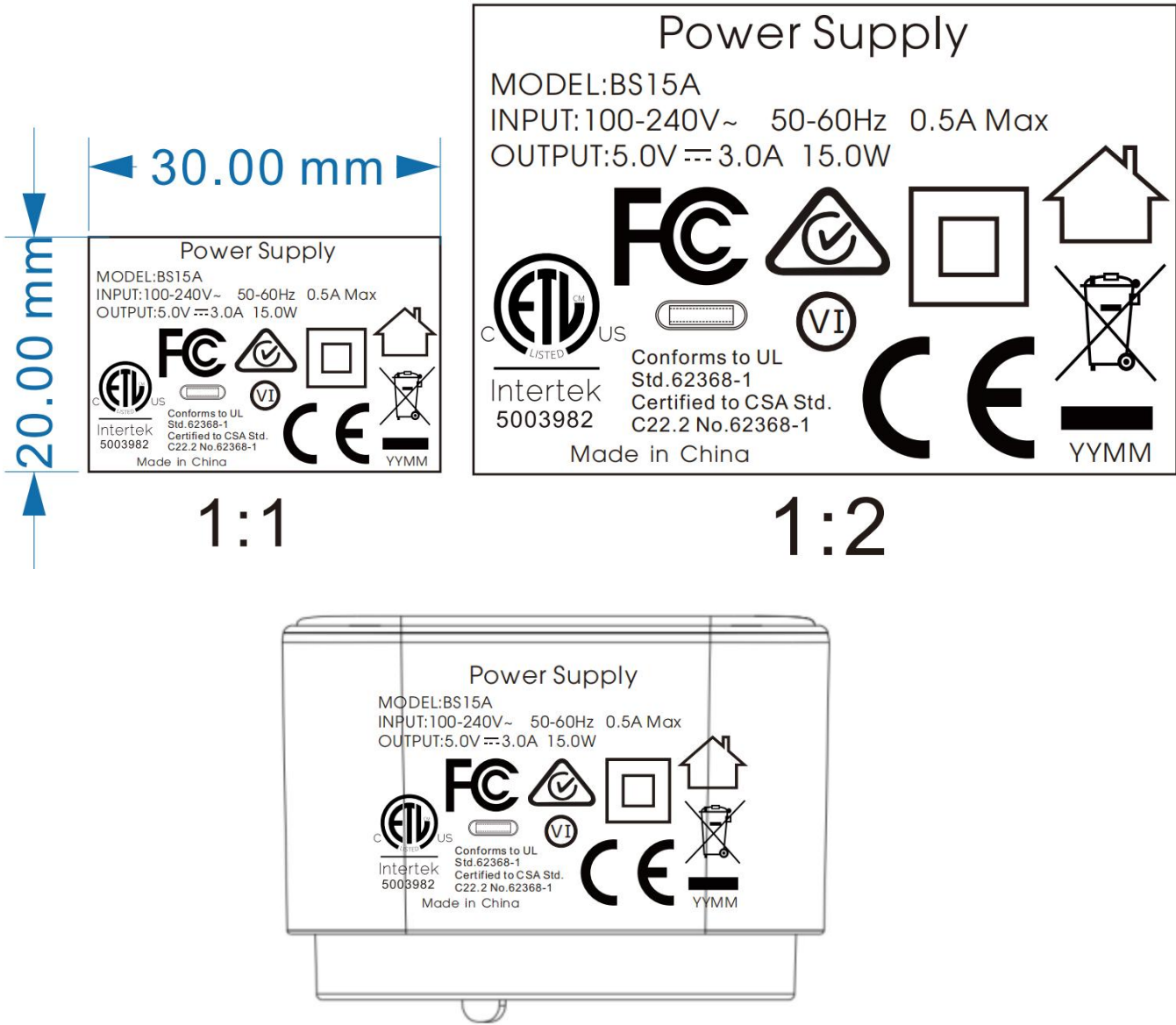
9. Match. Outline Drawing/外观示意图



外壳材质/ shell materia: ■PC 耐温: 120℃/ temperature resistance 120℃
□PC+ABS 耐温: 95℃/ temperature resistance 95℃
备注: PC 材质符合球压测试要求/ remark: PC texture 白色外壳

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10.I/O Marking Drawing/铭牌或镭雕示意图



备注：铭牌镭雕图档,YYMM 代表生产日期，YY 表示年，MM 表示月；

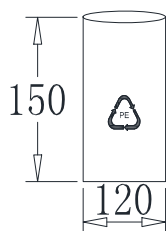
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11. Package Drawing/包装示意图



PE袋

料号: 35C-1501200-000

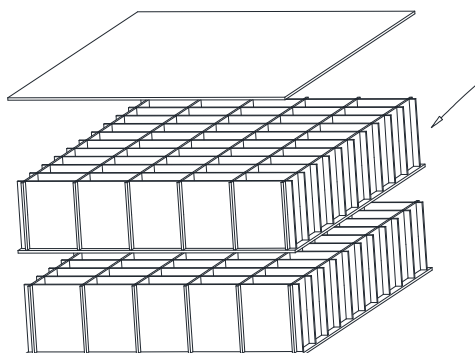
尺寸: 150*120*T0.03mm

平卡

料号: 36D-4913910-000

尺寸: 长490*宽390mm, 材质: A3A

用量: 3PCS



11刀卡

料号: 36E-4810810-000

尺寸: 长486*高80mm, 材质: A3A

用量: 6*2=12PCS

6刀卡

料号: 36E-3810810-000

尺寸: 长386*高80MM, 材质: A3A

用量: 6*2=12PCS

外箱

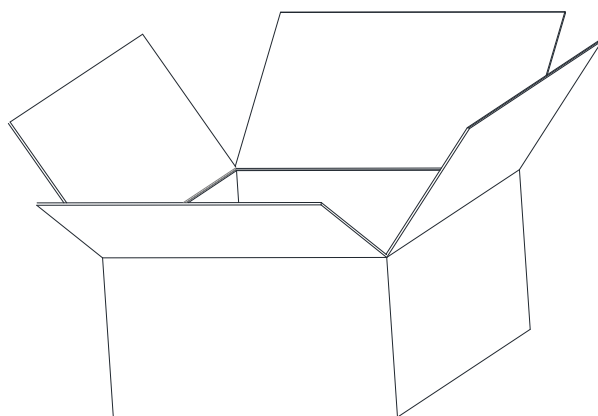
料号: 36C-5014010-000

尺寸: 500*400*210mm

唛头: 丝印在纸箱正面和侧面中间,
印4面, 印字中性

装箱数量:

1箱装100PCS



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12.Sample Test Report/样品测试报告

SAMPLE ELECTRICAL TEST REPORT/样品测试报告								
Model (机型): CP0154		电压/电流: 5V.3A		Customer	样品单号: ABPS251637		测试日期: 2025.9.2	
No 序号	Test item 测试项目	Test condition 测试条件	Standard spec 标准规格	Test data			Unit 单位	Judge 判定
				1	2	3		
1	Output Voltage 输出电压	Vin100V AC 输入 输出空载	$\pm 6\%$	5.15			V	☒ PASS ☐ NG
		Vin100V AC 输入 输出额定电流 A	$\pm 6\%$	4.93			V	☒ PASS ☐ NG
2	Unload input power 空载功耗	Vin100V AC 输入 输出电流 0 A	≤ 0.10	0.05			W	☒ PASS ☐ NG
3	OCP过流点	Vin100V AC 输入 输出额定电流	$I \leq 4.5$	3.26			A	☒ PASS ☐ NG
4	The average efficiency 平均效率	Vin115V AC 输入 输出额定电流 A	≥ 81.39	83.20			%	☒ PASS ☐ NG
5	Ripple&Noise 纹波&杂讯	Vin100V AC 输入 输出额定电流 A	≤ 200	102			mV	☒ PASS ☐ NG
6	Output Voltage 输出电压	Vin240V AC 输入 输出空载	$\pm 6\%$	5.16			V	☒ PASS ☐ NG
		Vin240V AC 输入 输出额定电流 A	$\pm 6\%$	4.97			V	☒ PASS ☐ NG
7	Unload input power 空载功耗	Vin240V AC 输入 输出电流 0 A	≤ 0.10	0.09			W	☒ PASS ☐ NG
8	OCP过流点	Vin240V AC 输入 输出额定电流	$I \leq 4.5$	3.16			A	☒ PASS ☐ NG
9	The average efficiency 平均效率	Vin230V AC 输入 输出额定电流 A	≥ 81.39	82.53			%	☒ PASS ☐ NG
10	Ripple&Noise 纹波&杂讯	Vin240V AC 输入 输出额定电流 A	≤ 200	91			mV	☒ PASS ☐ NG
11	Short circuit protection短路保护	Vin230V/90VAC 输入 输出额定电流 A	无损坏、可恢复 OK/NG	OK				☒ PASS ☐ NG
14	High Voltage Test高压 测试	3.3KVAC 5mA2S, input to output test 3.3KVAC/5mA2秒输入对输出		✓			OK	☒ PASS ☐ NG
15	Burn in aging 老化	Input:100VAC and 240VAC Full load 4 hrs输入100VAC和240VAC分别 满载老化4小时		✓			OK	☒ PASS ☐ NG
16	Drop test 跌落测试	Hight:1m three faces(One time for each side), Conclusion: The shell does not crack, and the normal electric高1米, 3个面, 每个面1次; 结论: 外壳不开裂, 电性正常		✓			OK	☒ PASS ☐ NG
17								
18								

DRAWED/制定: 梁 (3) 3