

# 产品规格承认书 SPECIFICATION

文件编号 File No.: UME-EG-SP19042501/A1

客户 Customer	AKON	核准 Approval	ZL
品名 Product	开关电源 Switching power supply	品管确认 QC	LTF
型号 Model	AD-A120P600	审核 Check	ZL
日期 Date	2026-01-21	拟制 Execution	BMD

客户承认意见 Confirmation by Customer	客户签署 Stamp & Signature
<input type="checkbox"/> 合格 Accept	
<input type="checkbox"/> 不合格 Reject	
<input type="checkbox"/> 条件合格 Conditional Acceptance	

确认签署后，请回传一份。有任何问题，请尽快告知我们。

Please return one copy to us with your signature and feel free to contact us for any questions.

厦门友盟电子有限公司

XIAMEN UME ELECTRONICS CO., LTD.

电话 Tel:0592-2611448

地址：厦门市翔安区莲亭路火炬八方工业园10号楼882-7号8楼

Add: 8th Floor, No. 882-7, Lianting Road, Xiamen Torch Hi-Tech Zone (Xiangan) Industrial Zone

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**\* The products limited warranty period is 18 months.  
(From date code of product.)**

**● The products meet RoHS requirements.**

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## 2 概述 Summary

2.1 本文件包含一般的客户要求及电气、机构和安全性能等方面的描述。

This document contains general customer requirements and those of specific electrical, mechanical and safety for this product.

## 3 技术要求 Technical requirements

### 3.1 安全标准 Safety Standards

Japan: 電安法【別表第八】(JET6108-61010-1021)

### 3.2 Input

Rated Input Voltage	100-240Vac
Operating Range	90-264Vac
Rated Input Frequency	50~60Hz +/-10%
Input Frequency Range	45~66Hz
Rated Input Current	1.6A
Maximum Input Power	90W
Input Power (No Load)	0.2W Max@Ip:100Vac;
Primary Current Protection	Current fuse
AC Blade	<PS>E 2*0.75mm <sup>2</sup> VCTFK L = 1800mm, Black, Lead-free soldering

### 3.3 Output

Rated output voltage	12V ± 5%
Rated Load Current	6000mA
Over Current Protection	110-150% @Vin=90-264Vac
Line Regulation	The line regulation is less than ±2% while measuring at rated load and +/-5% of input voltage changing.
Ripple	≅ 200mVp-p
Switching Efficiency	88% minimum @ input 115AC/230VAC to meet DOE6
DC Plug	Φ2.1*5.5*9.5(EIAJ)
DC Cord	16AWG UL2464 L = 1000mm, Black, Lead-free soldering

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**3.4 可靠性及质量控制 Reliability and Quality Control**

**【Electrical Test Items】**

Item		Conditions	Criteria
1	Leakage Current	Measure the leakage current between Primary and Secondary when adding rated input. AC input = Rating voltage (100/240V)	Less than 250μA
2	ESD Test	1.Test is conducted at room temperature/humidity.(25°C, RH 50-60%) 2.Test set is 150pF/150Ω. 3.(1)±4KV:Contact discharge test. +phase: 3times, -phase: 3times, total: 6times. (2)±8KV:Air discharge test. +phase : 3times, -phase: 3times, total: 6times. (Note) After each ESD test, it should be discharged.	No malfunction (must be in spec after test).
		1.Test is conducted at room temperature/humidity.(25°C, RH 50-60%) 2.Test set is 150pF/150Ω. 3.(1)±6KV:Contact discharge test. + phase: 3times, -phase: 3times total: 6times. (2)±10KV:Air discharge test. + phase: 3times, -phase: 3times, total: 6times. (Note)After each ESD test, it should be discharged.	No destruction
	ESD Test (Ability test)	1.Test is conducted at room temperature/humidity.(25°C, RH 50-60%) 2.Test condition: 150pF/150Ω. 3,Contact discharge / Air discharge 4,Load: 1)no load 2)rated load 5. Impressing 10 times continuously to plus and minus each. 6,Discharging once after impressing 10 times (To confirm the capacity of unit up to the unit destroyed)	It confirms at which voltage value the adapter breaks.(Note: Not part of qualification)
3	Electric strength	Condition=AC3000V, 1min. Test place=Between AC blade and DC plug Sensitivity current=10mA	No malfunction. (damage, arc, breakdown etc)
4	Insulation resistance	DC500V, 1min. Between AC blade and DC plug	More than 100MΩ
5	Temperature Rise Test	1.Apply rating input voltage(100/240V), 2.Load: Charge actual Cellular phone 3.Measure the surface temperature of the adaptor 4.T ambient = The room temperature 5.Condition: Until it carries out temperature saturation (the definition of temperature than 1°C in 1 hour).	Housing surface Temperature rise is less than 50K.

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		1.Apply rating input voltage(100/240V), 2.No Load 3.Measure the surface temperature of the adaptor	Housing surface Temperature rise is less than 15K.
6	Input over / under	Apply voltage=(rating input voltage)x(1±30%) Impressed time : 24h	No destruction
7	EMI/Conducted Emission	Telephone stand by mode with rapid-charge condition	Conform to: FCC 47CFR Part 15 Class B J55014-1
8	Surge	IEC61000-4-5 1.2×50µs 1.0KV Positive and negative all three times, Current limiting impedance 100 Ω, Time interval 30 seconds min.	No destruction.

**【Environmental Test Items】**

Item		Conditions	Criteria
1	Temperature range	Electrical performance guarantees temperature range: 0°C to 40°C、 Electrical performance not guarantees working temperature range: -20°C to 50°C Storage temperature range: -30°C to 80°C	No abnormal appearance, mechanic performance or electric performance
2	High Temperature Leave	1. Temperature 80°C for 96 hours. 2. After that test, test set is left in normal temperature, humidity condition for more than 1hour, then evaluate.	No abnormal appearance, mechanic performance or electric performance
3	Low Temperature Leave	1. Temperature -30°C for 96 hours. 2. After that test, test set is left in normal temperature, humidity condition more than 1(hour), then evaluate.	
4	High Temperature Humidity	1. Temperature 50°C, air moisture 90-95% RH for 96 hours. 2. After that test, test set is left in normal temperature, humidity condition more than 30min, then evaluate.	
5	Temperature Humidity test	1. Temperature 40°C, air moisture 90-95% RH for 96 hours. 2. After that test, test set is left in normal temperature, humidity condition more than 30min, then evaluate.	
6	Heat Shock Test	1. Condition: -30°C/ 1 hour to +80°C/ 1 hour, 60 cycles 2. After that test, test set is left in normal temperature, humidity condition more than 1 hour, then evaluate.	

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7	Heat/humidity Cycle Test	<p>A, C, D : RH=90 ± 10%                      B : RH= 90 ± 5%                      E : No limit                      After 5cycles, put EUT at room temperature/humidity condition</p> <p>The graph shows a temperature cycle with stages A, B, C, D, and E. The y-axis represents temperature in °C, with markers at +70, +45, 室温 or +20 (room temperature or +20), and -20. The x-axis represents time in hours. Stage A is a 2-hour ramp up from room temperature to +70°C. Stage B is a 4-hour dwell at +70°C. Stage C is a 2-hour ramp down from +70°C to +45°C. Stage D is a 12-hour dwell at +45°C. Stage E consists of a 1-hour ramp down to -20°C, a 2-hour dwell at -20°C, and a 1-hour ramp up to room temperature.</p>	
8	Humidity	<p>Operation is 10~85%.                      Storages is 5~95%</p>	Non-condensing

**【Mechanical Test Items】**

Item	Conditions	Criteria
1	Drop Test	No parts remove, no abnormal mechanic performance, (outside scratches are acceptable)
2	Package Drop Test	
3	Unit Vibration Test	
4	Package Vibration	
5	AC Plug in/out Test (AC Blade part)	
6	Exfoliate with cellophane tape and examine it	A character do not disappear.
7	Alcohol Examination-resistant	

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8	The reliability to face each other to come off the label	① - 40°C ② 80°C ③ 50°C 90% Each 96 hours ④ ③ After, it is a thermal shock examination of 96 cycles	Don't take the label off the main body
9	No tally part step	Difference of the pitch by height differences of the tally part between casts	less than 0.25mm after an environmental examination
10	Appearance fault	Mode Bali short a bullet hole / a scratch / a sunspot / a white dot / an alien substance / a stain / a mustache / Weld flow mark gate trace / a crack / whitening	A few thing: It determines a limit if necessary. A reference standard: The deep wound 0.2mm <sup>2</sup> following, the shallow wound 0.3mm <sup>2</sup> following
11	Option carton packing	There is "Railway assurance mark" ① - 40°C②80°C③50°C 90%, each 96Hr ④③ After, it is thermal shock examination -20°C←→ 50°C 96 cycles float screens few thing	No abnormal appearance, mechanic performance or electric performance

**【DC cord Test Items】**

Item	Conditions	Criteria
1 DC Cord strength (adaptor side / plug side)	1. Test part : Between adaptor and DC cord 2. Pull a cord with 98N(10Kgf) force 3. Time: 1min.	No abnormality such as wire cut, bushing come off
2 DC Cord Bending Test (adaptor side / plug side)	Weight = 4.9N(500g) Angle = +/-90° Cycles in every minute = 40times/min. Test cycles = 1000times Note: 1 cycle = swing to the opposite direction and return to the original one.	Operate properly.
3 PLUG PULLING TEST1:	Apply a 29.4N (3kgf) static load on the strain relief of the plug device at 5-direction (Upper, lower, right, left, and push) for each 1 minute, The solder must not peel off from PCB, mechanical and electric characteristic shall be normal.	No abnormality such as cord cut, bushing comes off.

**【Safety Test Items】**

1	MTBF	Make a measurement condition, a calculation standard clear	More than 50,000 hours
2	Part materials	It is maintenance or the incombustibility of contact / part materials approaching it in an outer fence, the charge department of the electric part	same as UL94V-0; more than it
3	print board	Incombustibility	same as UL94V-0; more than it
4	Solder debris	We regulate solder debris less than 0.4mm 1. Soldering debris between 0.1mm shall be removed if at all possible.	

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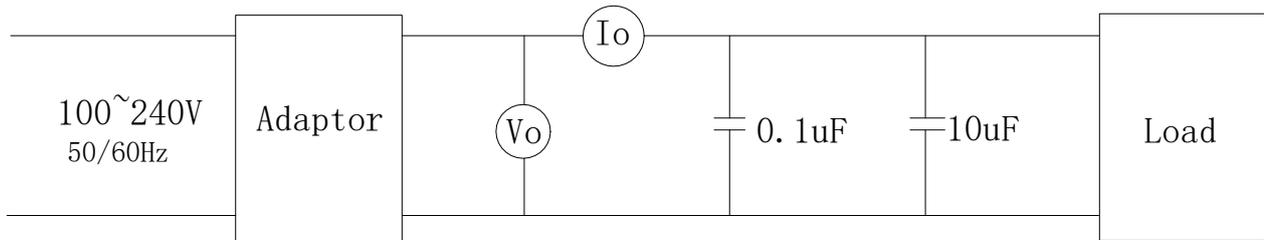
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		2. Soldering debris between 0.1 to less than 0.4 mm, in case some soldering debris/wasters are in 5cm <sup>2</sup> area. We total up their size and total less than 0.4mm shall be regarded as regulation.	
5	No tally part step	Difference of the pitch by height differences of the tally part between casts	less than 0.25mm after an environmental examination
6	Appearance fault	Mode Bali short a bullet hole / a scratch / a sunspot / a white dot / an alien substance / a stain / a mustache / Weld flow mark gate trace / a crack / whitening	A few thing: It determines a limit if necessary. A reference standard : The deep wound 0.2mm <sup>2</sup> following, the shallow wound 0.3mm <sup>2</sup> following.

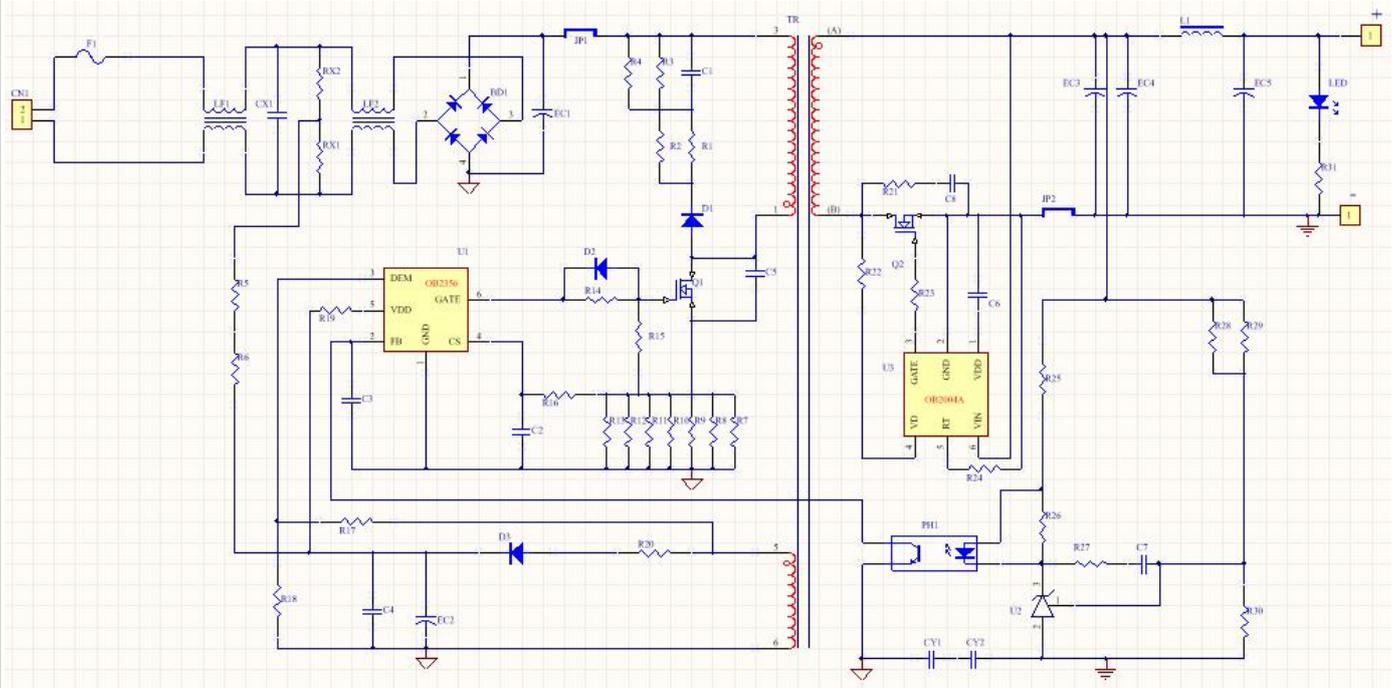
**3.5 测试线路图 Test Circuit**

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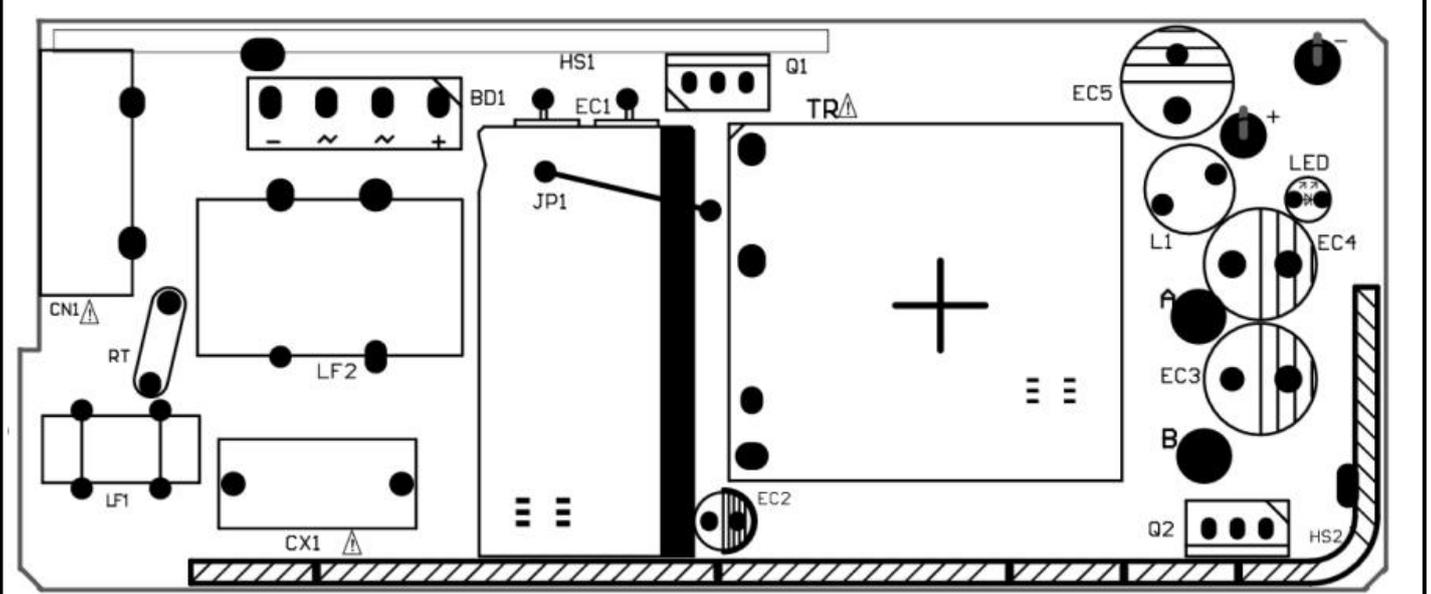
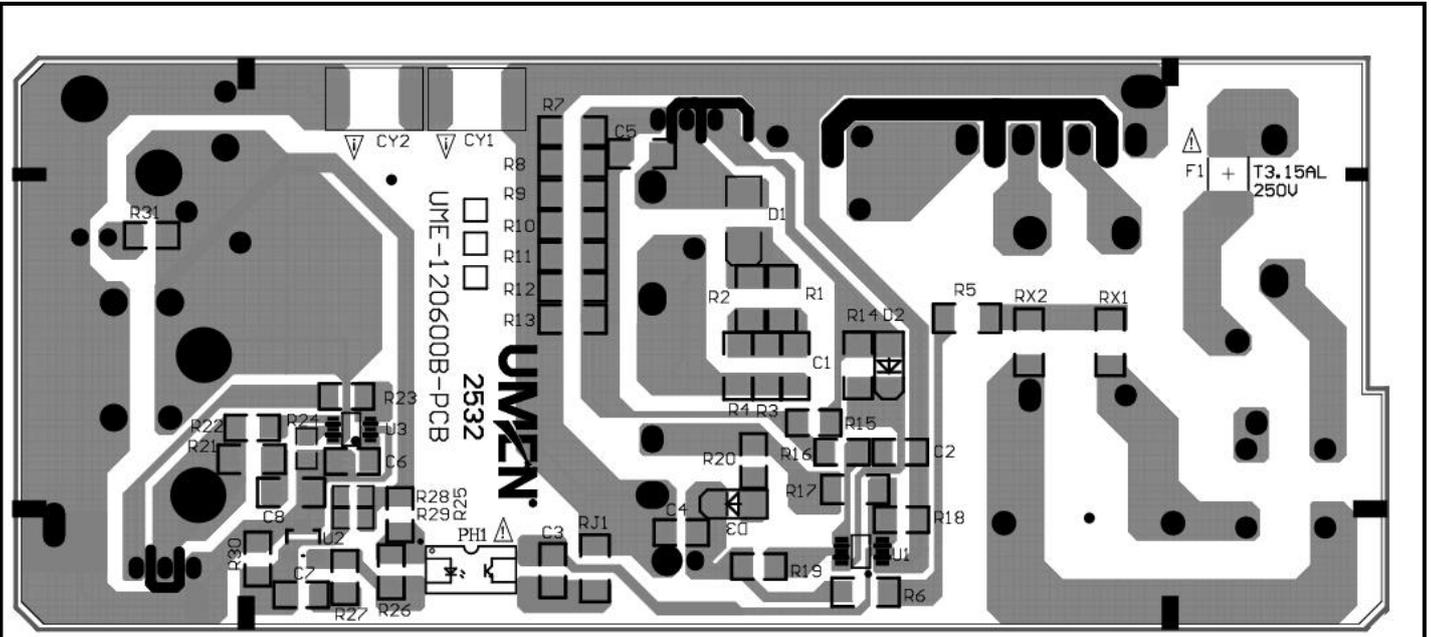
#### 4 线路图 Schematic Diagram



#### 5 电路板图 P.C.B

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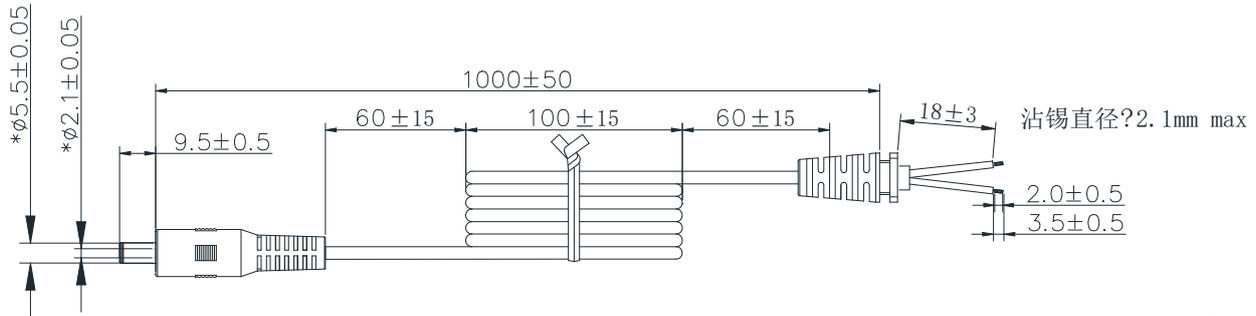
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6 CORD 图 (单位 unit: mm 颜色 color: Black)

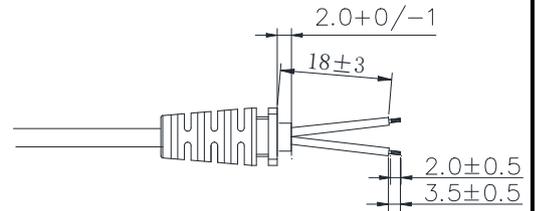
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**备注:**

1. 导线规格: 16AWG 2464 音叉型 黑色, 芯线颜色: 红色+黑色, 导线总长 1000mm; 材质符合RoHS要求。导线按图示尺寸捆扎、测试, 导线间应开路, 对应线头线尾应短路导通, 极性连接正确;
2. 两头剥线焊锡, 剥线长度  $3\text{mm} + 1/-0$ 。剥线要求如图所示, 剥丝线焊锡的直径为  $2.1\text{mm MAX}$ 。接线方式: 红色芯线接PIN中心, 黑色芯线接外侧, PG头成型, SR-017成型; SR017尺寸为  $9.0 \times 8.0\text{mm}$ 。
3. SR拉力测试: 吊重  $1\text{Kg}/10$  分钟, 不可有位移, 吊重  $5\text{Kg}/1$  分钟, 位移  $2\text{mm MAX}$ 。
4. 插拔力测试: 插入力  $2\text{Kg MAX}$ , 拔出力  $0.3\text{Kg MIN}$ ; 插拔  $6000\text{MIN}$  次不允许有电气和机械性能的损坏, 且满足拔出力  $0.1\text{Kg MIN}$ ;
5. 摇摆测试: 吊重  $500\text{g}$ , 以  $40\text{次/分}$  作  $90^\circ$  往返, 每一往返为一次, 至少  $1000$  次;
6. PLUG绝缘阻抗测试:  $100\text{M}\Omega \text{ MIN}$  在  $500\text{DC/分}$ ; PLUG接触阻抗测试:  $100\text{m}\Omega \text{ MAX}$ ;
7. 导线, SR, PLUG非移行性依据厂内一般进行; 禁止使用VDE所禁用的物质。
8. 打\*号尺寸, 为入料检查项目;



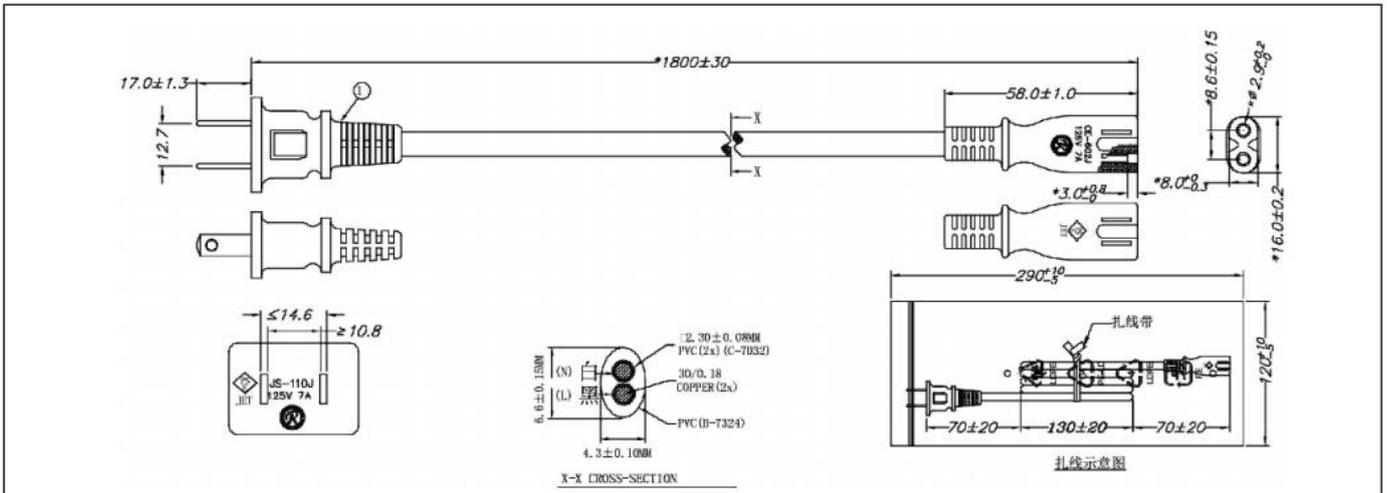
**接线方式**

DC头中心针 —— 红色芯线  
DC外壳 —— 黑色芯线

**7 AC CORD 图**

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备注:

- 1、线材规格: VCTFK 0.75/2C BLK L:1800mm
- 2、导线按图示尺寸捆扎、测试。导线间应开路, 对应线头线尾应短路导通。
- 3、摇摆测试: 吊重500g, 以40次/分作60°往返, 每一往返为一次, 至少2000次。
- 4、插头、线及接口符合PSE(日本)标准。
- 5、材质符合“RoHS”要求。
- 6、测试参数: 内高压3KV, 时间1S, 外高压4KV, 时间为2S, 绝缘 5MΩmin, 时间1S 漏电流0.5mA。
- 7、头部: JS-110J 尾部: CE-602J
- 8、插拔力: 10N-50N
- 9、印字内容: R31945 RoHS <PS>E JET VCTFK 2\*0.75mm<sup>2</sup> (30/0.18mm) 300V FUND RESOURCES ELECTRIC INDUSTRY CO., LTD SHANGHANG YEAR

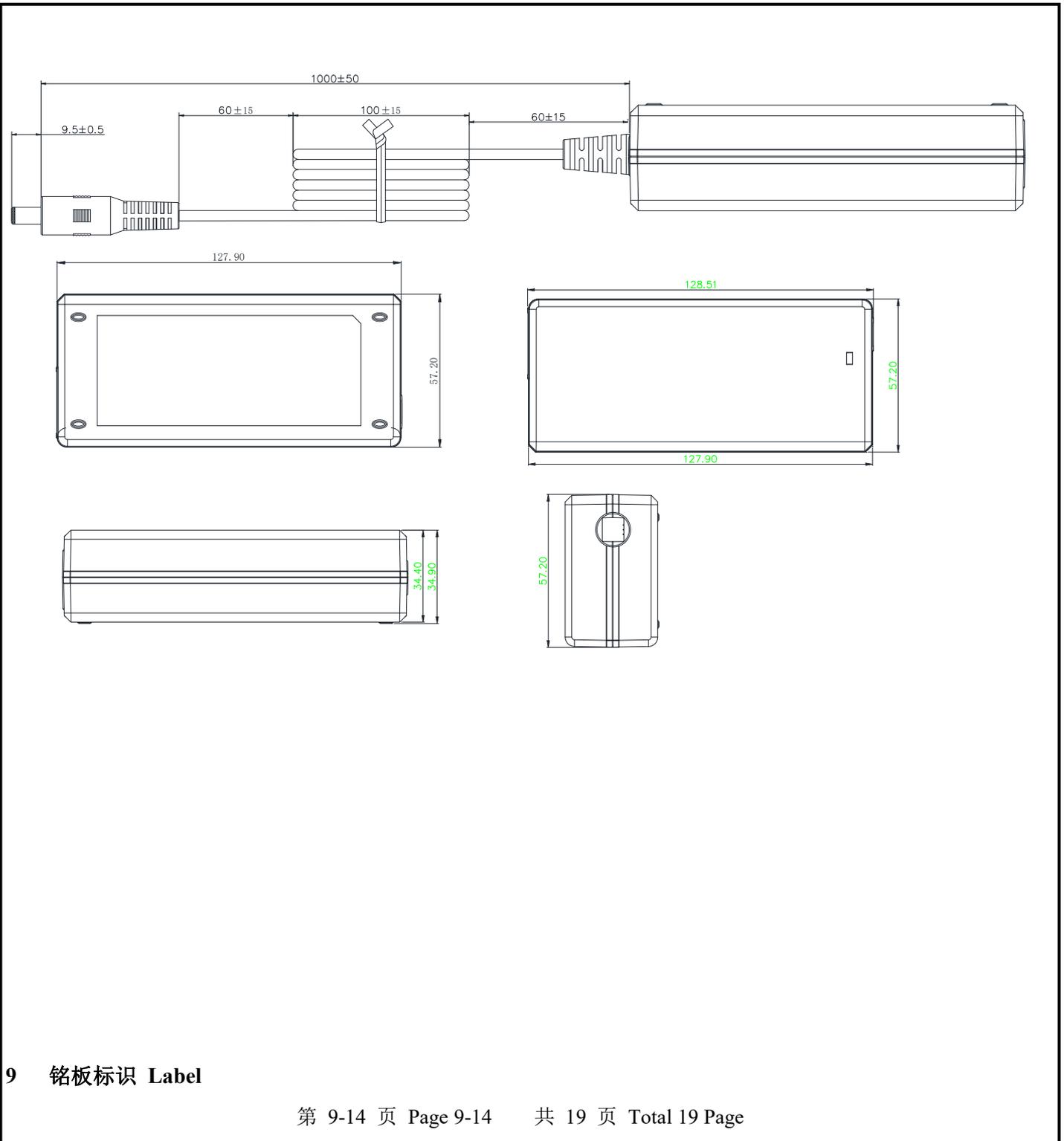
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版次	变更内容	制图	审核	批准	单位	mm	图 称	输入电源线	
		白美端			比例	2021-9-25	图 号	CORD-120500M	版本
			日期	编号	LJDY0120017		1.0		
			产品型号	SW-120500T9					

**8 外观示意图 Cord and Mechanical Drawing (单位 unit: mm 颜色 color: Black)**

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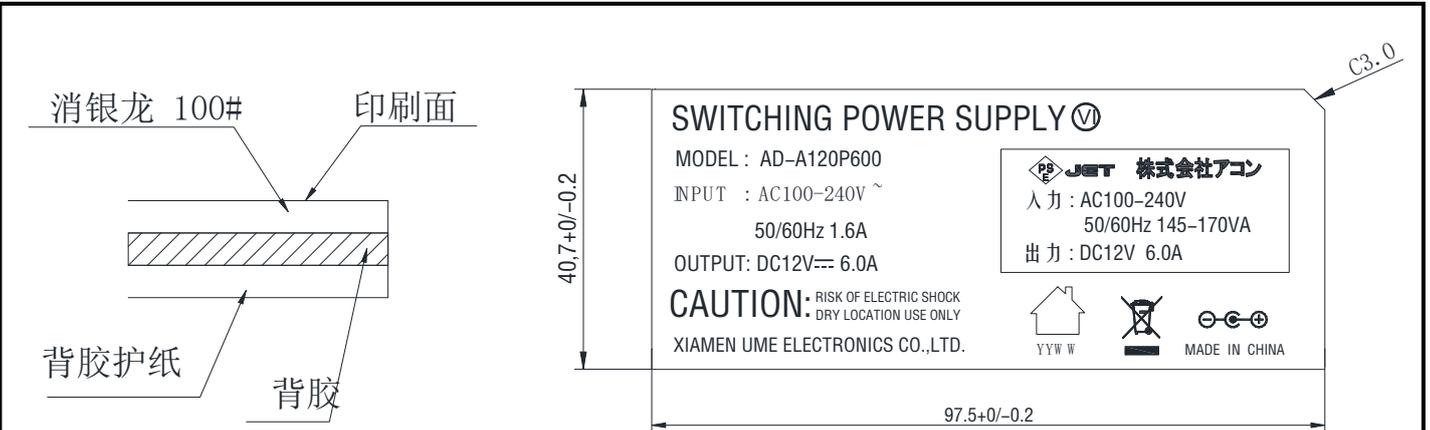
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9 铭板标识 Label

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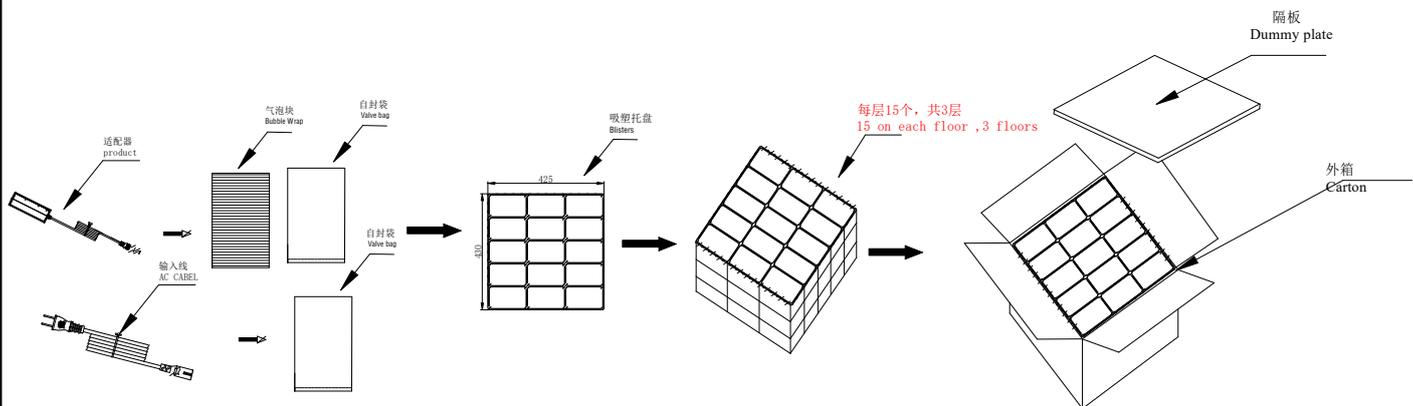
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**备注:**

1. 材质: 消银龙 100# (铭板基材厚度0.1mm, 材质PET)。
2. 黑底银字, 表面上半亚膜, 印刷参照ARTWORK, 印刷位置居中。
3. 背胶: 高冠DT#。
4. 密着性: 将铭板贴于实际CASE上, 在-40° C下放置48小时, 再放入75° C, 90%RH下放置48小时后, 于常温常湿下放1小时, 在铭板长度方向上贴上强力胶带(3M NO. 610 18mm宽或等价物), 以垂直方向急速拉起, 铭板不能有起泡或脱落。
5. 粘着力: 依据铭板检验标准测试。
6. YY表示年份, WW表示周期, 年周依订单要求或实际生产日而定。
7. 字体清晰可读, 布局居中, 字体或图案与铭板边缘距离大于0.4mm。
8. 铭板字体为方正姚体。

**10 包装方式 Packaging**



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## 11 材料清单 BOM

NO	ITEM	DESCRIPTION	SPECIFICATION	QTY	MANUFACTURER
1	PCB	PCB	UME-120600B-PCB	1	TXS/JT/MW/HG
2	RX1,RX2	Chip R	1M $\Omega$ ±5% 1206	2	YAGEO/FengHua
3	R1,R2,R14	Chip R	270 $\Omega$ ±5% 1206	3	YAGEO/FengHua
4	R3,R4	Chip R	510K $\Omega$ ±5% 1206	2	YAGEO/FengHua
5	R5,R17	Chip R	100K $\Omega$ ±5% 1206	2	YAGEO/FengHua
6	R6	Chip R	0 $\Omega$ ±5% 1206	1	YAGEO/FengHua
7	R7,R8,R9,R10,R11	Dip R	2 $\Omega$ ±1% 1206	5	YAGEO/FengHua
8	R12,R13	Chip R	1.5 $\Omega$ ±1% 1206	2	YAGEO/FengHua
9	R15,R31	Chip R	10K $\Omega$ ±5% 0805	2	YAGEO/FengHua
10	R16	Chip R	510 $\Omega$ ±5% 0805	1	YAGEO/FengHua
11	R18	Chip R	27K $\Omega$ ±5% 0805	1	YAGEO/FengHua
12	R19,R22,R23	Chip R	0 $\Omega$ ±5% 0805	3	YAGEO/FengHua
13	R20	Chip R	6.8 $\Omega$ ±5% 0805	1	YAGEO/FengHua
14	R21	Chip R	22 $\Omega$ ±5% 1206	1	YAGEO/FengHua
15	R24	Chip R	39K $\Omega$ ±5% 0805	1	YAGEO/FengHua
16	R25,R26	Chip R	1K $\Omega$ ±5% 0805	2	YAGEO/FengHua
17	R27	Chip R	47 $\Omega$ ±5% 0805	1	YAGEO/FengHua
18	R28	Chip R	20K $\Omega$ ±1% 0805	1	YAGEO/FengHua
19	R29	Chip R	2M $\Omega$ ±5% 0805	1	YAGEO/FengHua
20	R30	Chip C	5.1K $\Omega$ ±1% 0805	1	YAGEO/FENG HUA
21	C1,C8	Chip C	102 500V±10% 1206 X7R	2	YAGEO/FENG HUA
22		Chip C	102 630V±10% 1206 X7R		YAGEO/FENG HUA
23	C2	Chip C	101 50V±10% 0805 X7R	1	YAGEO/FENG HUA
24	C3	Chip C	222 50V±10% 0805 X7R	1	YAGEO/FENG HUA
25	C4	Chip C	104 50V±10% 0805 X7R	1	YAGEO/FENG HUA

批准 Approval:	ZL	审核 Check:	ZL	制表 Execution:	BMD
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品名 Product	开关电源 SPS	型号 Model	AD-A120P600	日期 Date	2026-01-21

26	C5	Chip C	101 1KV±5% 1206 X7R	1	YAGEO/FENG HUA
27	C6	Chip C	105 16V±10% 0805 X7R	1	YAGEO/FENG HUA
28	C7	Chip C	684 50V±10% 0805 X7R	1	YAGEO/FENG HUA
29	D1	Diode	M7 SMA	1	JF/MIC/PANJIT
30	D2	Diode	1N4148W 75V 0.15A SOD-123	1	JF/MIC/PANJIT
31	D3	Insulation sheet	F7 1A/1000V/SOD-123FL	1	JF
32	U1	IC	OB2365EMP SOT-23	1	On Bright
33	U2	IC	CJ431±0.5% SOT-23	1	Changdian/UTC
34	U3	IC	OB2004AMP SOT-23	1	Changdian/UTC
35	CY1,CY2	Y cap	SMD Y2 472 300VAC	2	STE/TRX
36	FI	FUSE	DESC 24T 4A 250VAC	1	XC/FYS
37	PH1	Photo	EL1018(TA)-VG	1	EVERLIGHT
38		Photo	BPC-1008		BH
39		Photo	CT1018(V)(T1)-W		KJ
40	BD1	Rectifier Bridge	WRGBU610 1000V 6A P=5mm	1	WED
41	LED	LED	3Ø LED Green	1	Hong Qi
42	HS2	Heat Sink	SINK-120800T	1	XZ
43	HS1	Heat Sink	70*20*2+33*30*2	1	XZ
44	Q1,Q2	Screw	Φ3*8	2	YZ/JX
45	Q1,Q2	Nut	Φ3mm	2	YZ/JX
46	CX1	X Cap	0.33uF 275V ±20% P=15	1	STE
47	L1	Inductance	1.4uH MIN D4*15Φ1.0	1	HXH/JY/CS
48	LF1	Inductance	0.6mH MIN 0.5 UEW+TLW	1	HXH/JY/CS
49	LF2	Inductance	17mH MIN 0.6 UEW+TLW	1	HXH/JY/CS
50	CN1	AC INLET	HC-801-5-P4	1	HD
		AC INLET	ST-A03-005AT5 (A:1.7)2PIN		BEJ
51	TR	Transformer	PQ3220-120600B	1	HXH/ ZY

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52	RT1	R	2.5 Ω 5A SCK-2R55A	1	XQ
53	Q1	MOSFET	SJ13N65F 650V 13A ITO-220	1	JF
54		MOSFET	TK12A65D 650V 12A TO-220F		Toshiba
55	EC1	E Cap	150uF 400V±20 18*35mm(WH)	1	AISHI
56	EC2	E Cap	10uF 50V±20%Φ5*11mm(RR)	1	AISHI
57	EC3,EC4,EC5	E Cap	1500uF 16V±20%10*20mm(RR)	3	AISHI
58	JP1		Φ0.5mm	1	UME
59	HS2	Adhesive tape	135*240mm	1	HXH
60	Q2	Insulation sheet	BUSHING-TO-220	1	GHT
61	Q2	Silicon Sheet	13*19*0.25 mm	1	GHT
62	Q2	MOSFET	KS8203 93A 75V TO-220AB	1	GUANYU
63	TR,HS3	Heat Conduction Glue	30*20*2.5 mm	1	Gao Ku
64	HS3,LF2,BD1	Heat Conduction Glue	32*25*2.5 mm	1	Gao Ku
65		Heat Conduction Glue	50*40*1mm	1	Gao Ku
66		Light Pipe	4.52*2.01*2.5+Φ6*Φ4.52 d=9.04mm	1	JinTonZhou
67		DC Cable	Φ2.1*5.5*9.5 2464 16AWG 1000mm SR017 BK	1	DPK/GC
68		AC Cable	<PS>E 2*0.75 mm <sup>2</sup> VCTFK L=1800mm Black	1	KLG/JR
69		Case	UMED01-A BK	1	JLF/XH
70		Case	UMED01-B BK	1	JLF/XH
71		Nameplate	NAP-120600C-PSE	1	Jingxing
72		Bubble Wrap	205*125	1	Xincheng
73		Valve bag	140*210*0.05mm	1	Xincheng
74		Carton	470*380*190mm	0.02222	XinRuicheng/ FuXing
75		Liner Plate	465*365*3mm	0.04444	XinRuicheng/ FuXing
76		Tray	460*370*65mm	0.06667	XinRuicheng/ FuXing
77		White glue	AP-688	1.2	JX
78		Solder Bar	Pb free	0.4	YUNNANXIYE

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77		Solder wire	Pb free	0.2	YUNNANXIYE
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