

产品规格承认书 SPECIFICATION

文件编号 File No.: UME-EG-SP17040502/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-A150P240	审核 Check	ZL
日期 Date	2025-08-14	拟制 Execution	BMD

客户承认意见 Confirmation by Customer	客户签署 Stamp & Signature
☐ 合格 Accept	
☐ 不合格 Reject	
☐ 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 (Xiang'an) Industrial Zone

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目录 INDEX

1	变更履历 Revision History.....	1-3
2	概述 Summary	2-4
3	技术要求 Technical requirements.....	3-4
	3.1安全标准 Safety Standards	3-4
	3.2Input.....	3-4
	3.3Output	3-4
	3.3可靠性及质量控制 Reliability and Quality Control	3-5
	3.4测试线路图 Test Circuit	3-9
4	线路图 Schematic Diagram	4-9
5	电路板图 P.C.B.....	5-10
6	CORD 图（单位 unit: mm 颜色 color: Black）	6-11
7	AC CORD 图	7-12
8	外观示意图 Cord and Mechanical Drawing（单位 unit: mm 颜色 color: Black）	8-14
9	铭板标识 Label.....	9-15
10	包装方式 Packaging	10-15
11	材料清单 BOM.....	11-16

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

● The products meet RoHS requirements.

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1 变更履历 Revision History

版本 REV	变更日期 Date	变更内容 Content of Change	制表 Execution	审核 Check	批准 Approval
V1.0	2017-04-05	1.First Issue	LMY	ZengL	JB
V1.1	2017-10-27	1.Change the Label	LMY	ZengL	JB
V1.2	2021-12-09	1.Change NAP, add Material second source	BMD	ZL	JB
V1.3	2025-08-14	1. Change the nameplate	BMD	ZL	ZL

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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【JET6108-61010-1014A】

3.2 Input

Rated Input Voltage	100-240Vac
Operating Range	90-264Vac
Rated Input Frequency	50~60Hz
Rated Input Current	0.8A
Maximum Input Power	45W
Input Power (No Load)	0.3W Max
Primary Current Protection	Current fuse
AC Blade	PSE type AC Blade
AC Cable	<PS>E 2*0.75mm ² VCTFK L = 1800mm, Black, Lead-free soldering

3.3 Output

Rated output voltage	15V±5%
Rated Load Current	2400mA
Over Voltage Protection	17V Max @Vin=100Vac/240Vac
Over Current Protection	2.8A Min @Vin=100Vac/240Vac
Line Regulation	The line regulation is less than ±2% while measuring at rated load and +/-5% of input voltage changing.
Ripple	≤ 150mVp-p
Switching Efficiency	87.4% minimum@ input 115AC/230VAC, can meet Level V standard.
DC Plug	Φ2.5*5.5*9.5

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DC Cord	20AWG UL2464 L = 1500mm, Black Lead-free soldering
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3.3 Regulation:

IEEE1725 (IEEE Standard for Rechargeable Batteries for Cellular Telephones)

ENERGY STAR / California Appliance Efficiency Program (for US) : Level V

Australian and New Zealand Energy Performance Requirements (for NZ) : Level V

Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

3.4 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 250 μ A
2	ESD Test	1.Test is conducted at room temperature/humidity.(25℃, RH 50-60%) 2.Test set is 150pF/150 Ω . 3.(1) $\pm$ 4KV:Contact discharge test. +phase: 3times, - phase: 3times, total: 6times. (2) $\pm$ 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℃, RH 50-60%) 2.Test set is 150pF/150 Ω . 3.(1) $\pm$ 6KV:Contact discharge test. + phase: 3times, - phase: 3times total: 6times. (2) $\pm$ 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℃, RH 50-60%) 2.Test condition: 150pF/150 Ω . 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	Hi-POT test	Condition=AC3000V, 1min. Test place=Between AC blade and DC plug Sensitivity current=10mA	No malfunction. (damage, arc, breakdown etc)

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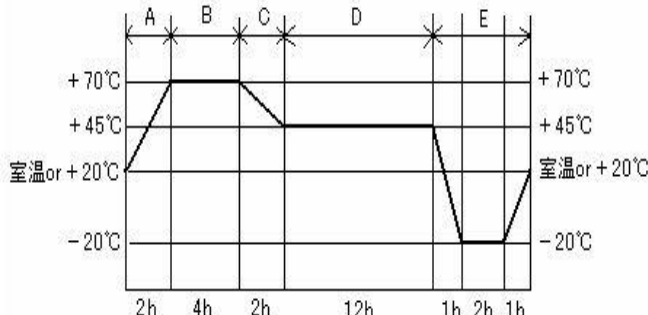
4	Insulation resistance	DC500V, 1min. Between AC blade and DC plug	More than 100MΩ
5	Temperature Rise Test	1.Apply rating input voltage(100/240V), 2.Load: Charge actual Cellular phone 3.Measure the surface temperature of the adaptor 4.T ambient = The room temperature 5.Condition: Until it carries out temperature saturation (the definition of temperature than 1℃ in 1 hour). 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 45K. 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 (for US) EN55032 (For Japan)
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℃ to 40℃ Electrical performance not guarantees working temperature range: -20℃ to 50℃ Storage temperature range: -30℃ to 80℃	No abnormal appearance, mechanic performance or electric performance
2	High Temperature Leave	1. Temperature 80℃ 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℃ 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℃, 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℃, 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.	

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6	Heat Shock Test	1. Condition: -30℃/ 1 hour to +80℃/ 1 hour, 60 cycles 2. After that test, test set is left in normal temperature, humidity condition more than 1 hour, then evaluate.	
7	Heat/humidity Cycle Test	A, C, D : RH=90 ± 10% B : RH= 90 ± 5% E : No limit After 5cycles, put EUT at room temperature/humidity condition 	
8	Humidity	Operation is 10~85%. Storages is 5~95%	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. Don't take the label off the main body

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品 名 Product	开关电源 SPS	型 号 Model	AD-A150P240	日期 Date	2025-08-14

7	The reliability to face each other to come off the label	① -40℃ ② 80℃ ③ 50℃ 90% Each 96 hours ④ ③ After, it is a thermal shock examination of 96 cycles	
8	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

【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: contrarotate 90°, and then rotate it clockwise with 180°(+90°~-90°) , and at last return to origin. (1 Cycle : 0°⇒-90°⇒0°⇒+90°⇒0°)	Operate properly.

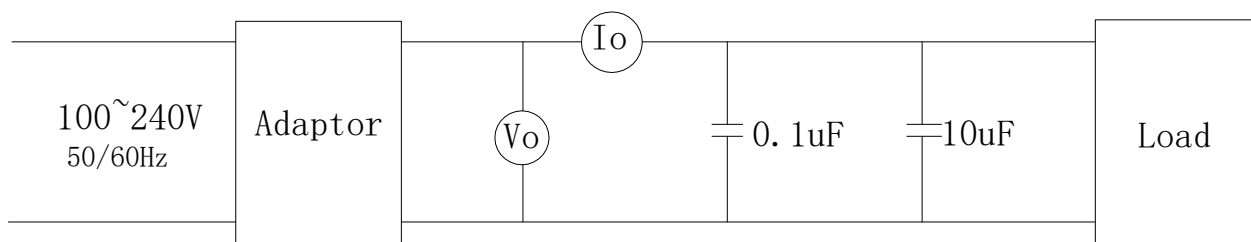
【Safety Test Items】

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	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

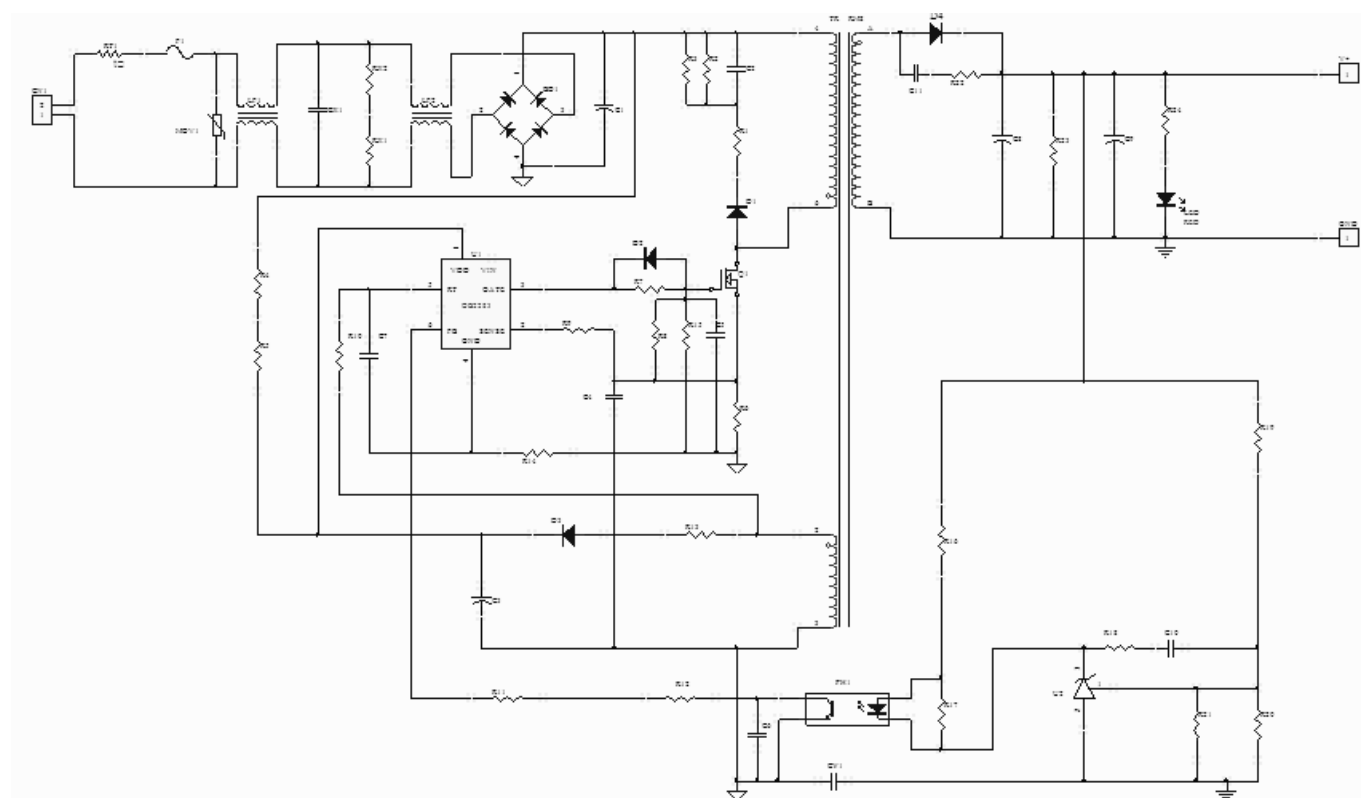
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品 名 Product	开关电源 SPS	型 号 Model	AD-A150P240	日期 Date	2025-08-14

3.5 测试线路图 Test Circuit



4 线路图 Schematic Diagram



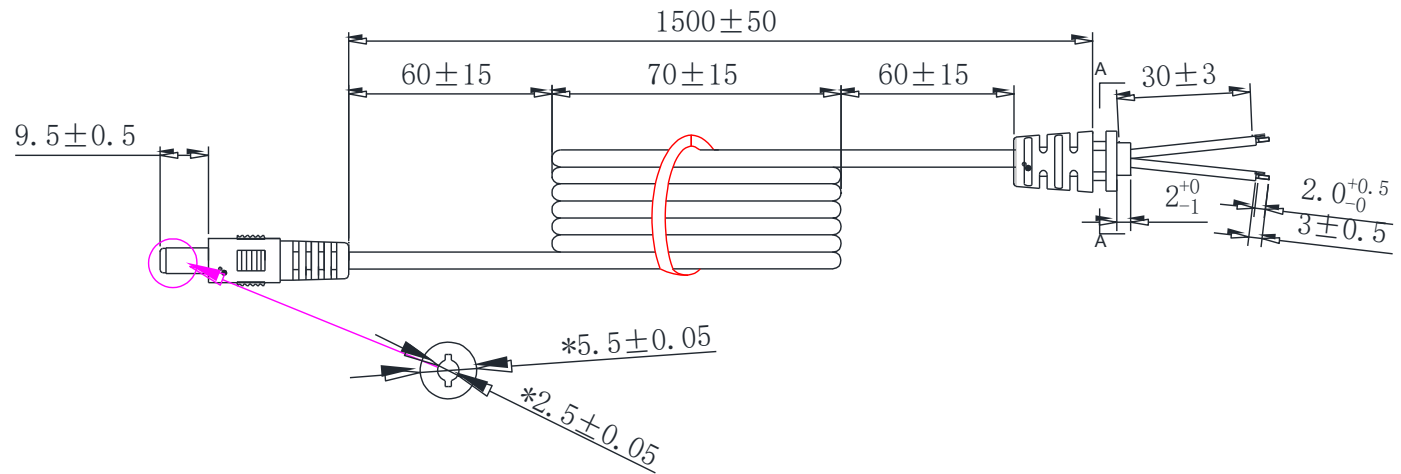
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5 电路板图 P.C.B

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



- 备注:
- 导线规格: 20AWG 2464 音叉型 黑色, 芯线颜色: 红色+黑色, 导线总长 1500mm; 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;
 - 两头剥线焊锡, 剥线长度3mm+1/-0。剥线要求如图所示, 剥丝线焊锡的直径为1.5mm 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-002成型; SR002尺寸为6.8*7.8mm。
 - SR拉力测试: 吊重1Kg/10分钟, 不可有位移, 吊重5Kg/1分钟, 位移2mmMAX
 - 插拔力测试: 插入力2KgfMAX, 拔出力0.3KgfMIN; 插拔6000MIN次不允许有电气和机械性能的损坏, 且满足拔出力0.1KgMIN;
 - 摇摆测试: 吊重500g, 以40次/分作90° 往返, 每一往返为一次, 至少1000次;
 - PLUG绝缘阻抗测试: 100MΩ MIN在500DC/分; PLUG接触阻抗测试: 100mΩ MAX;
 - 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。
 - 打*号尺寸, 为入料检查项目;

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7 AC CORD 图

Technical drawing of an AC power cord (VCTFK) showing dimensions, specifications, and test requirements.

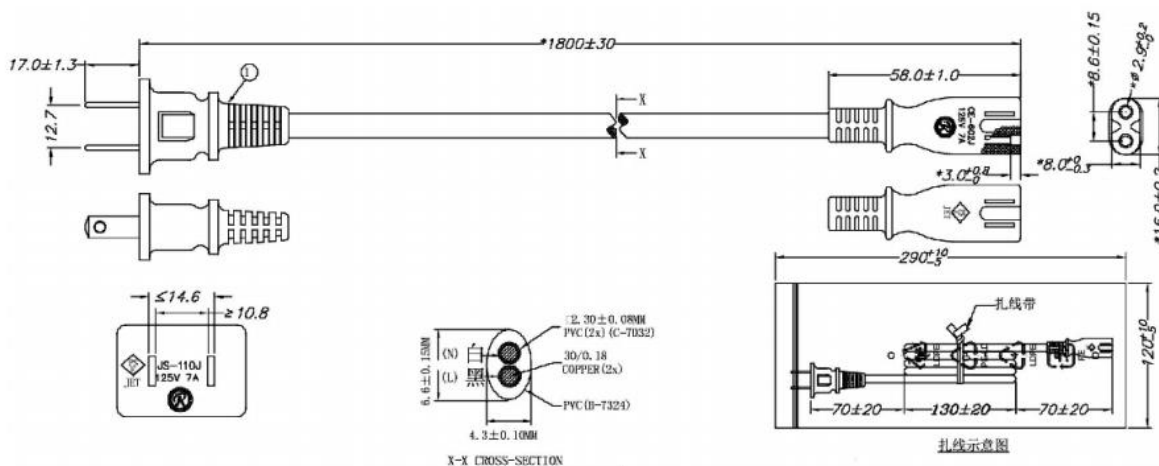
Dimensions and Specifications:

- Overall Length:** 1800 ± 20 mm
- Conductor:** $\langle PS \rangle E$ JET 2559-12009-1001 VCTFK 2*0.75mm² 20**
- Head (LP-51):**
 - Pin spacing: $\phi 11.7 \pm 0.4$
 - Pin diameter: $\phi 6.3 \pm 0.1$
 - Pin length: $\phi 3.0 \pm 0.3 / -0.2$
 - Head diameter: $\phi 12.7 \pm 0.13$
 - Head height: 10.8 Min to 14.6 Max
 - Head width: 17 ± 1.3
- Body:**
 - Body diameter: $2.7 * 5.4 \pm 0.15$
 - Body length: 16 ± 0.2
 - Body width: $8 \pm 0 / -0.3$
 - Body height: 9.5 min
- Tail (LS-7J):**
 - Tail length: 10.5 min
 - Tail width: 16 ± 0.2
 - Tail height: $8 \pm 0 / -0.3$
- Conductor Structure:**
 - Conductor diameter: 0.75 ± 0.04
 - Conductor length: 70 ± 20 mm
 - Conductor width: 100 ± 20 mm
 - Conductor height: 70 ± 20 mm
- Material:** VCTFK 0.75/2C BLK L:1800mm
- Test Parameters:**
 - Test voltage: 3KV (1S), 4KV (2S)
 - Test current: 0.5mA
 - Test time: 1S, 2S
- Notes:**
 - 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250g, 以40次/分作90°往返, 每一往返为一次, 至少1000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: LP-51 尾部: LS-7J

第 7-12 页 Page 7-12 共 18 页 Total 18 Page

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-A150P240	日期 Date	2025-08-14



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*0.75mm² (30/0.18mm) 300V
 FUND RESOURCES ELECTRIC INDUSTRY CO.,LTD SHANGHANG YEAR

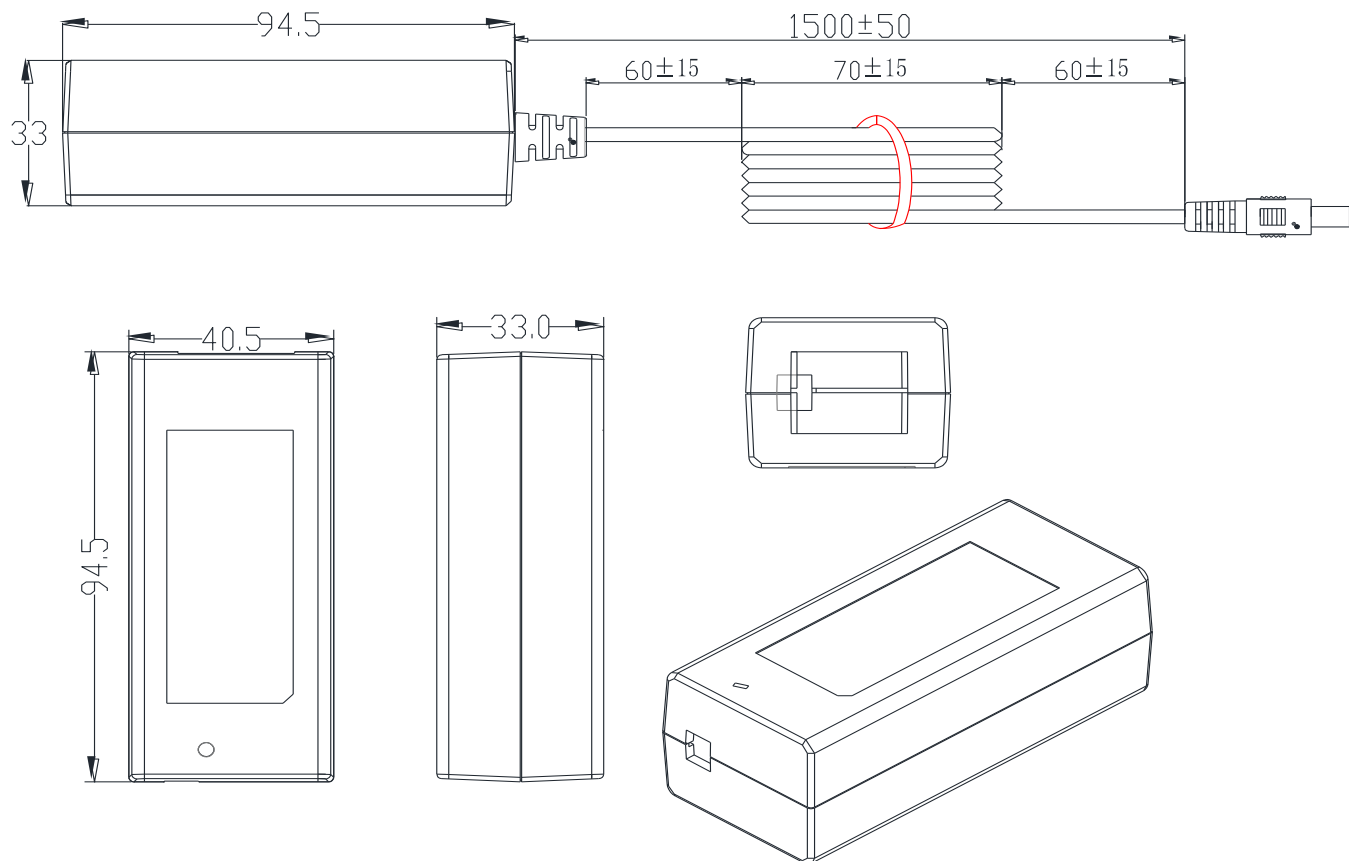
厦 门 友 盟 电 子 有 限 公 司

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	

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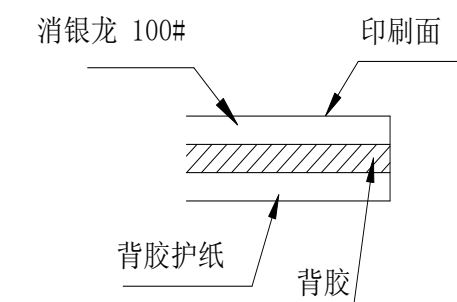
8 外观示意图 Cord and Mechanical Drawing (单位 unit: mm 颜色 color: Black)



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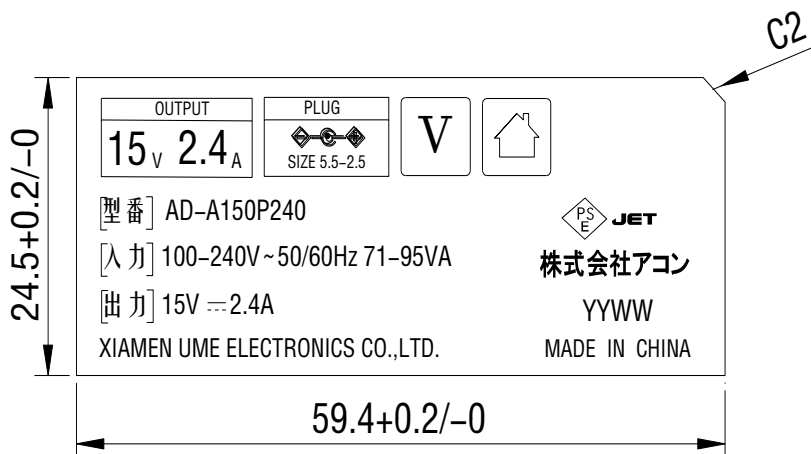
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9 铭板标识 Label

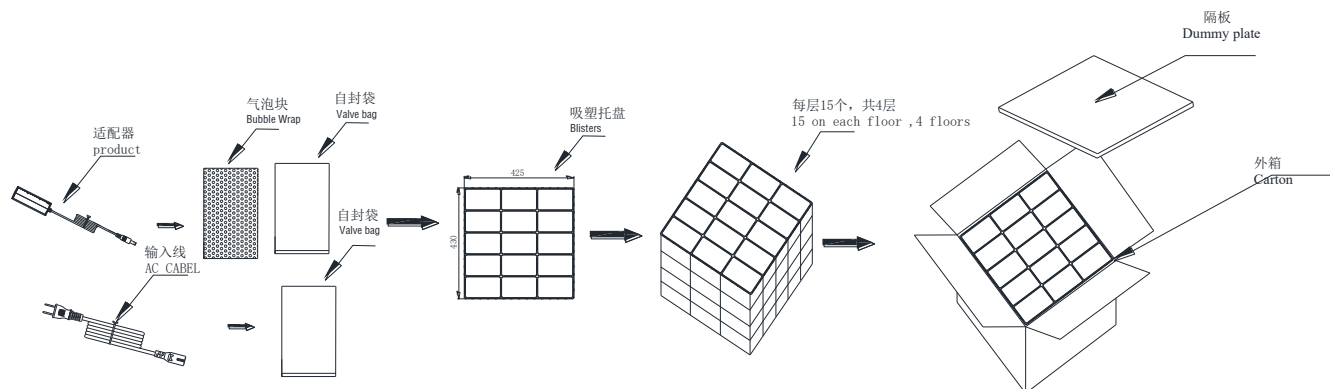


备注:

1. 材质: 消银龙 100# (材质: PET, 厚度: 0.1mm)。
2. 黑底银字, 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, 85%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	MANUF ACTURER
1	PCB	PCB	UME-138250A-PCB V-0	1	TXS/EL/MW/HG
2	RX1,RX2	Chip R	1M Ω $\pm$ 5% 1206	2	YAGEO/FengHua
3	R1	Chip R	100 Ω $\pm$ 5% 1206	1	YAGEO/FengHua
4	R2	Chip C	47 $\pm$ 10% X7R 1206	1	YAGEO/FengHua
5	R3	Chip R	510K Ω $\pm$ 5% 1206	1	YAGEO/FengHua
6	R4,R5	Chip R	1.5M Ω $\pm$ 1% 1206	2	YAGEO/FengHua
7	R7,R9	Chip R	10 Ω $\pm$ 5% 0805	2	YAGEO/FengHua
8	R8,R23	Chip R	10K Ω $\pm$ 5% 0805	2	YAGEO/FengHua
9	R10	Chip R	330K Ω $\pm$ 5% 0805	1	YAGEO/FengHua
10	R11,R12,R13	Chip R	0 Ω $\pm$ 5% 0805	3	YAGEO/FengHua
11	R14	Chip R	0 Ω $\pm$ 5% 1206	1	YAGEO/FengHua
12	R16	Chip R	1K Ω $\pm$ 5% 0805	1	YAGEO/FengHua
13	R17	Chip R	15K $\pm$ 5% 0805	1	YAGEO/FengHua
14	R18	Chip R	750K Ω $\pm$ 5% 0805	1	YAGEO/FengHua
15	R19	Chip R	200K $\pm$ 5% 0805	1	YAGEO/FengHua
16	R20	Chip R	40.2K Ω $\pm$ 1% 0805	1	YAGEO/FengHua
17	R21	Chip R	4.3M Ω $\pm$ 5% 0805	1	YAGEO/FengHua
18	R22	Chip R	22 Ω $\pm$ 5% 0805	1	YAGEO/FengHua
19	R24	Chip R	36K Ω $\pm$ 5% 0805	1	YAGEO/FengHua
20	BD1	Bridge Diode	Z4GP20KLH 2A 800V	1	JF/World
21	D1	Chip Diode	M7 SMA	1	JF/MIC/PANJIT
22	D2	Chip Diode	RLS245 200V 0.2A LL-34	1	JF/EXCELL/PANJIT
23	D3	Chip Diode	F7 1A/1000V/SOD-123FL	1	JF/ZW/PANJIT
24	C6	Chip C	103 50V $\pm$ 10% 0805 X7R	1	YAGEO/FENG HUA
25	C10	Chip C	104 50V $\pm$ 10% 0805 X7R	1	YAGEO/FENG HUA

批准 Approval:	ZL	审核 Check:	ZL	制表 Execution:	BMD
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产品规格承认书 SPECIFICATION				文件编号 File No.	UME-EG-SP17040502/A1
品 名 Product	开关电源 SPS	型 号 Model	AD-A150P240	日期 Date	2025-08-14

26	C11	Chip C	222 500V±10% 1206 X7R	1	YAGEO/FENG HUA
27	U1	IC	0B2283K SOP-23	1	On Bright
28	U2	IC	CJ431±0.5% SOT-23	1	Changdian/UTC
29	LED	Chip LED	0805 LED	1	HongQi/Molisen
30	FI	FUSE	T3.15A/250V P=5mm TSP	1	FYS
31		FUSE	T3.15A/250V P=5mm		XC
32	JP	Jump line	Φ0.5mm	65	UME
33	CX1	X Cap	0.22Uf 275V±20% P=10mm	1	STE/UTC
34	LF1	Inductance	360uH MIN Φ 0.6*5*11mm	1	HXH/VS/NH
35	LF2	Inductance	9mH MIN Φ 0.3mm UU9.8 180℃	1	HXH/VS/NH
36	CN1	AC INLET	ST-A03-005AT5(A:1.7)2PIN	1	BEL
37	CY1	Y cap	Y1 102 400V±20% P=10mm	1	STE/UTC
38	TR	TRANSFMOR	TRRM8-150240A	1	HXH/Zhuoyue
39	PH1	Photo	BPC-817MB DIP-4 P=10.2mm	1	Baihong
40	LF2	Inductance	EL-817MB DIP-4 P=10.2mm	1	Everlight
41	D4	SCHOTTKY	SMBR20B100FCTH100V 20A TO-220AB	1	Jinheng /Panjit/JF
42	Q1	MOSFEET	MDF10N60TH 600V 10A TO-220F	1	Toshiba
43	TR	MOSFEET	HF10N65 650V 10A TO-220F	1	HF/JF
44	Q1, D4	Screw	Φ3*8	2	Yunzhan/jixin
45	Q1, D4	Nut	Φ3.0mm	2	Yunzhan/jixin
46	D4	Silicon Sheet	13*19*0.25mm	1	Guanghuitian
47		Insulation sheet	BUSHING T-220	1	Guanghuitian
48	C1	E cap	68uF400±20% 105℃ Φ18*20mm(BXW)	1	Rubycon
49	C3	E cap	4.7uF 50V±20% 105℃ Φ5*11mm(YXF)	1	Rubycon
50	C8 C9	E cap	560uF 25V±20% 105℃ Φ8*20mm(ZLH)	2	Rubycon
51	Q1	Heat Sink	SINK-120300T	1	Xiezhun
52	D4	Heat Sink	SINK-120300T1	1	Xiezhun

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53		DC Cable	Φ2.5*5.5*9.5 2464 20AWG 1500mm BK SR-002	1	DPK/Kaibo
54		AC Cable	<PS>E 2*0.75mm ² VCTFK. L=1800mm, Black, Lead-free soldering	1	KLG/JR
55		Case	UME 3006A BK PC2540	1	SLIVER
56		Case	UME 3006B BK PC2540	1	SLIVER
57		Bubble Wrap	175*98mm	1	Xincheng
58		Valve bag	125*185*0.05mm	1	Xincheng
59		Valve bag	85*145*0.05mm	1	Xincheng
60		CARTON	470*380*255mm	0.01667	XinRuicheng/ FuXing
61		LINER	465*365*3mm	0.01667	XinRuicheng/ FuXing
62		Blisters	370*460*65mm	0.06667	YUXIANG
63		White glue	AP-688	1.2	JX
64		Solder Bar	1Cu 99Sn	0.5	YUNNAN Tin
65		Solder wire	0.3Ag 0.7Cu 99Sn	0.1	YUNNAN Tin

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