

产品规格承认书
SPECIFICATION

文件编号 File No.: UME-EG-SP22020801/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-AKC240P250	审核 Check	ZL
日期 Date	2025-08-07	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.

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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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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	2022-02-08	1.First Issue	BMD	ZL	JB
V1.1	2024-11-15	1.Change the nameplate	BMD	ZL	ZL
V1.2	2025-08-07		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【JET6108-61010-1015A】

3.2 Input

Rated Input Voltage	100-240Vac
Operating Range	90-264Vac
Rated Input Frequency	50~60Hz
Rated Input Current	1.2A
Maximum Input Power	75W
Input Power (No Load)	0.21W 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

Output voltage	24V ± 5%
Rated Load Current	2500mA
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	≤ 200mVp-p
Switching Efficiency	88% minimum @ input 115AC/230VAC, can meet DoE 6
DC Plug	Φ2.1*5.5*9.5(EIAJ)
DC Cord	18AWG UL2464 L = 1500mm, 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 250 μ A
2	ESD Test	1.Test is conducted at room temperature/humidity.(25°C, 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°C, 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°C, 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)
4	Insulation resistance	DC500V, 1min. Between AC blade and DC plug	More than 100M Ω
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 45K.

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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℃ 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.	
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.	

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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	Height of drop: 1m, 1times/each surface (total 6 times), Floor: Hardwood.	No parts remove, no abnormal mechanic performance, (outside scratches are acceptable)
2	Package Drop Test	1. Packaged condition. 2. Drop test points (1) 1 corner (2) 2 edges (3) 4 surfaces, Total: 7times drop test. 3. Height of drop:50cm. Bottom surface drop test only apply 65cm.	
3	Unit Vibration Test	1. Vibration condition:33.3Hz/min. 20.6m/s ² 2. (1)Top/Bottom direction:4-hours (2)Right/Left direction:2-hours (3) Front/Back direction:2-hours	
4	Package Vibration	1.Vibration condition: 5-55-5Hz/2min. (1)Top/Bottom direction : 12.5(m/S ²)30(min) (2) Right/left direction : 7.5(m/S ²)15(min)*2	
5	AC Plug in/out Test (AC Blade part)	1. AC Plug in/out test more than 5000times 2.10(times/min). 1 time is in/out action.	
6	Exfoliate with cellophane tape and examine it	Use Nichiban 18mm or 24mm width	A character do not disappear.
7	The reliability to face each other to come off	① -40℃ ② 80℃ ③ 50℃ 90% Each 96 hours ④ ③ After, it is a thermal shock examination	Don't take the label off the main body

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	the label	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.

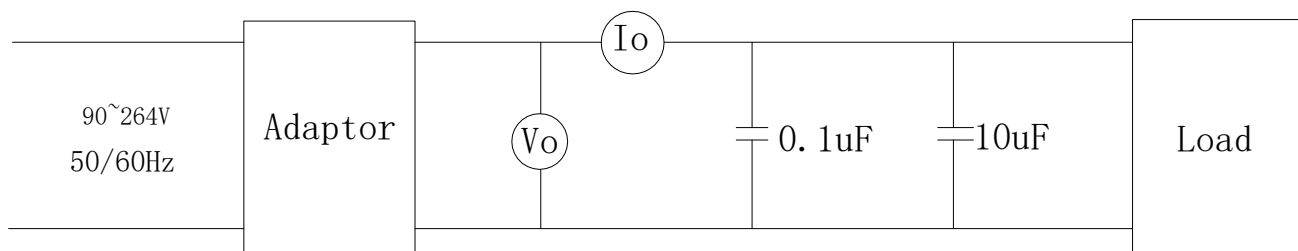
【Safety Test Items】

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

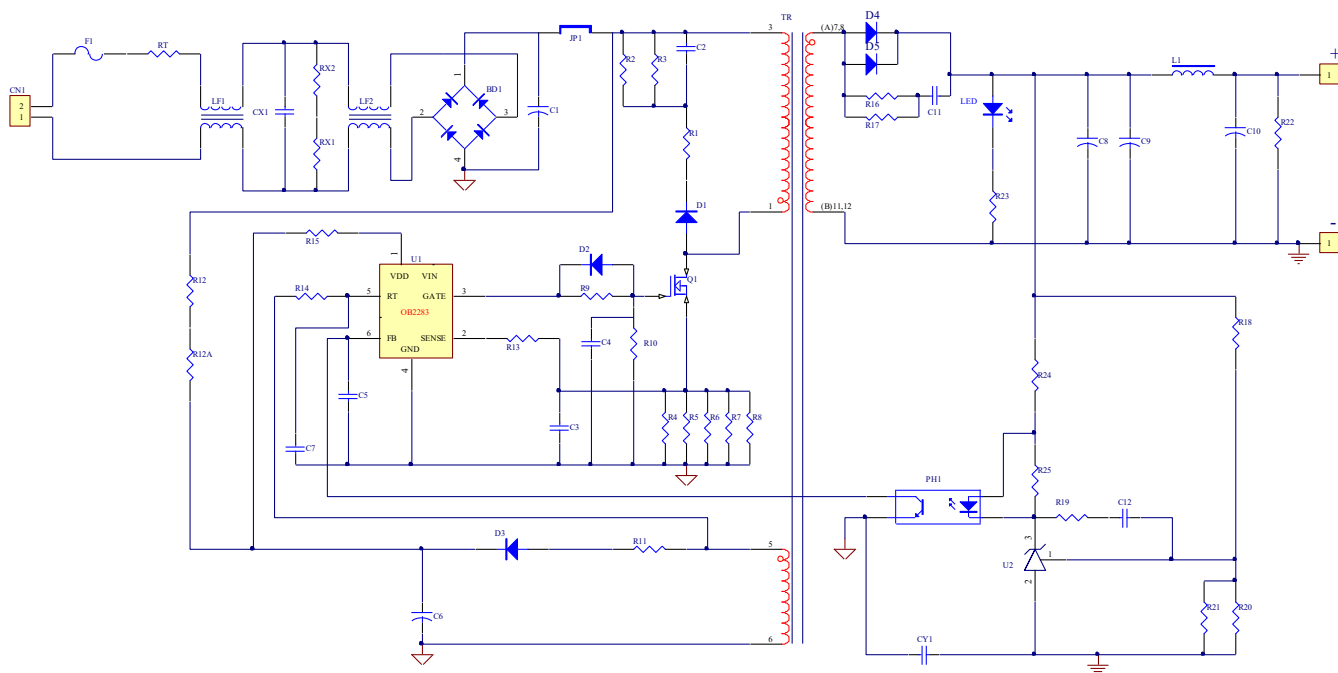
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3.6 测试线路图 Test Circuit



4 线路图 Schematic Diagram



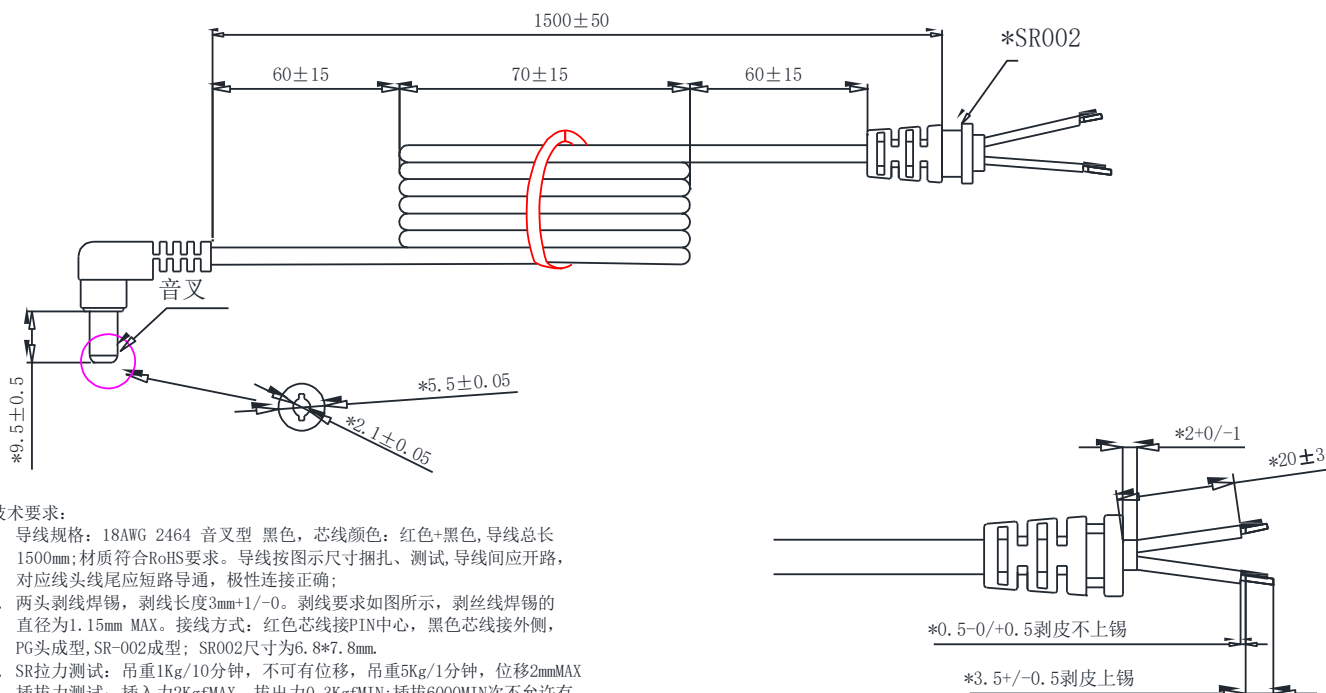
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5 电路板图 P.C.B

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6 Cord (单位 unit: mm 颜色 color: BK)



技术要求:

- 导线规格: 18AWG 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 $3\text{mm}+1/-0$ 。剥线要求如图所示, 剥丝线焊锡的直径为 1.15mm 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 $6.8*7.8\text{mm}$ 。
- 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 2mm MAX
- 插拔力测试: 插入力 2Kg fMAX , 拔出力 0.3Kg fMIN ; 插拔 6000MIN 次不允许有电气和机械性能的损坏, 且满足拔出力 0.1Kg fMIN ;
- 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: $100\text{M}\Omega$ MIN在 500DC/分 ; PLUG接触阻抗测试: $100\text{m}\Omega$ 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

7 AC CORD 图



- 1、线材规格: VCTFK 0.75/2C BLK L:1800mm
- 2、导线按图示尺寸插扎、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 <P>E JET VCTFK 2*0.75mm² (30/0.18mm) 300V FUND RESOURCES ELECTRIC INDUSTRY CO.,LTD SHANGHANG YEAR

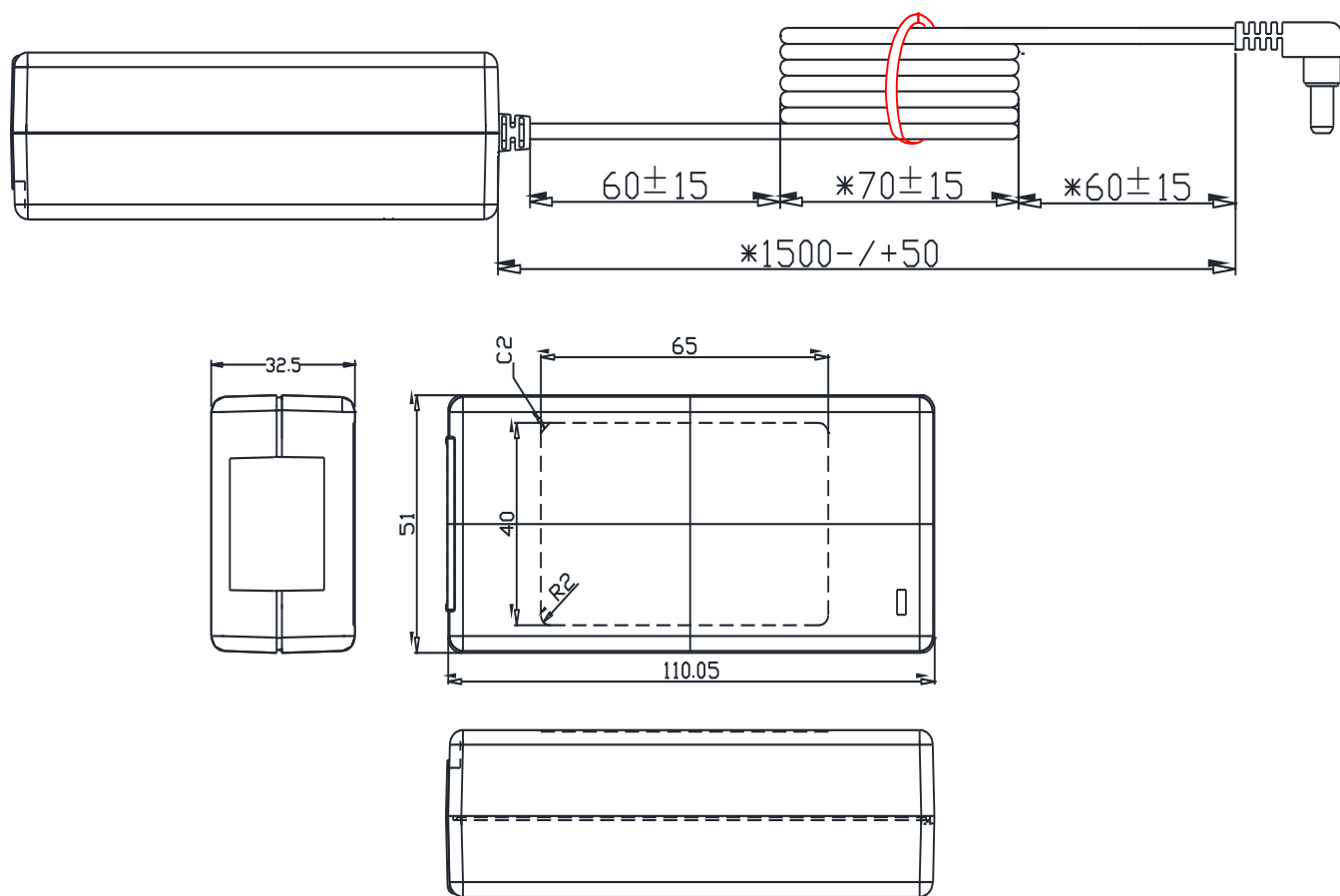
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版次	变更内容	制图	审核	批准	单位	mm	图 称	输入电源线	
		白美端			比例		图 号	CORD-120500M	版本
					编 号		LJDY0120017		
					日期	2021-9-25	产品型号	SW-120500T9	

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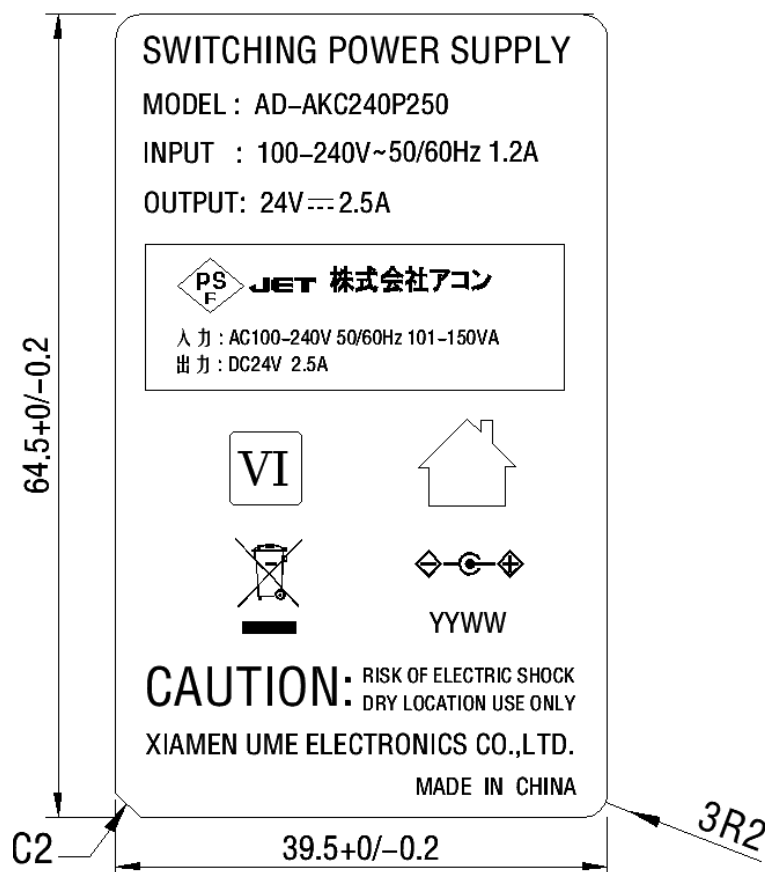
8 外观示意图 Mechanical Drawing (单位 unit: mm 颜色 color: BK)



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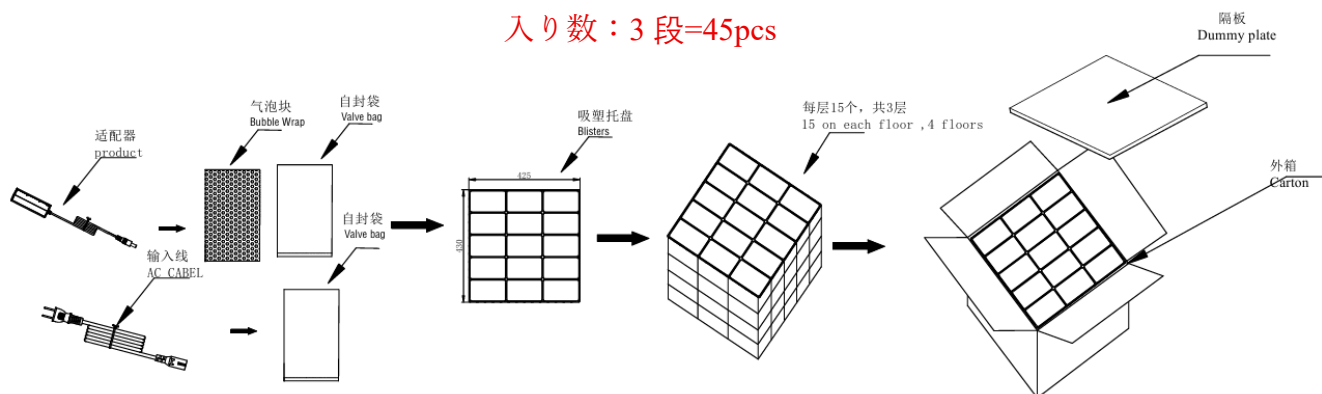
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9 铭板标识 Label



10 包装方式 Packaging

入り数：3段=45pcs



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11 BOM list

NO	ITEM	DESCRIPTION	SPECIFICATION	QTY	MANUF ACTURER
1	PCB	PCB	UME-138350A-PCB	1	TXS/JT/MW/HG
2	RX1,RX2	Chip R	750K Ω $\pm$ 5% 1206	2	YAGEO/FengHua
3	R1,R16,R17	Chip R	51 Ω $\pm$ 5% 1206	3	YAGEO/FengHua
4	R2	Chip R	3.0M Ω $\pm$ 5% 1206	1	YAGEO/FengHua
5	R3	Chip R	200K Ω $\pm$ 5% 1206	1	YAGEO/FengHua
6	R4,R5,R6,R7,R8	Dip R	2.4 Ω $\pm$ 5% 1206	5	YAGEO/FengHua
7	R9	Chip R	220 Ω $\pm$ 5% 1206	1	YAGEO/FengHua
8	R10	Chip R	10K Ω $\pm$ 5% 0805	1	YAGEO/FengHua
9	R11	Chip R	15 Ω $\pm$ 5% 0805	1	YAGEO/FengHua
10	R12,R12A	Chip R	1M Ω $\pm$ 5% 1206	2	YAGEO/FengHua
11	R13,R19,R24	Dip R	1K Ω $\pm$ 5% 0805	3	YAGEO/FengHua
12	R14	Chip R	300K Ω $\pm$ 5% 1206	1	YAGEO/FengHua
13	R15	Chip R	0 Ω $\pm$ 5% 0805	1	YAGEO/FengHua
14	R18	Chip R	24K Ω $\pm$ 5% 0805	1	YAGEO/FengHua
15	R20	Chip R	3K $\pm$ 1% 0805	1	YAGEO/FengHua
16	R21	Chip R	33K Ω $\pm$ 1% 0805	1	YAGEO/FengHua
17	R23	Chip R	30K Ω $\pm$ 5% 0805	1	YAGEO/FengHua
18	C2,C11	Chip C	102 500V $\pm$ 10%1206 X7R	2	YAGEO/FENG HUA
19	C5	Chip C	103 50V $\pm$ 10%0805 X7R	1	YAGEO/FENG HUA
20	C12	Chip C	684 50V $\pm$ 10%0805 X7R	1	YAGEO/FENG HUA
21	BD1	Rectifier Bridge	KBL406G 600V 4A P=5mm	1	PANJIT
22	D1	Diode	M7 SMA	1	JF/MIC/PANJIT
23	D2,D3	Diode	1N4148W 75V 0.15A SOD-123	2	JF/MIC/PANJIT
24	D5	Schottky Diode	SR30100CTH 30A 100V TO-220	1	JF/ Panjit/Sirect/Diode
25	U1	IC	0B2283K SOT-23	1	On Bright

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26	U2	IC	CJ431±0.5% SOT-23	1	Changdian/UTC
27	LED	LED	30 LED Green	1	Hong Qi
28	F1	FUSE	*T3.15A/250V P=5mm	1	XC
		FUSE	334 T3.15AL250V 3.6*10mm		Better
29	HS2	Mike pull tape	150mm*73mm*0.05mm	1	HXH
30	HS1	Heat sink	70*20*2+33*30*2	1	XZ
31	HS2	Heat sink	101*21*2	1	XZ
32	Q1	Screw	Φ3*8	1	Yunzhan/jixin
33	D5	Screw	Φ3*6	1	Yunzhan/jixin
34	Q1,D5	Nut	Φ3mm	2	Yunzhan/jixin
35	CX1	X Cap	0.33uF 275V±20% P=10	1	STE
36	L1	Inductance	1.4uH MIN D4*15 Φ1.0	1	HXH/CS
37	LF1	Inductance	0.6mH MIN 0.5 UEW+TLW	1	HXH/CS
38	LF2	Inductance	20mH MIN 0.5 UEW+TLW	1	HXH/CS
39	CN1	AC INLET	ST-A01-005KT44(N)2.0	1	Chenli/BEJ
40	CY1	Y cap	Y1 222 400V±20% P=10	1	STE/HJ
41	TR	TRANSFMOR	PQ2620-240250A	1	HXH/ JQ
42	PH1	Photo	EL-817MB DIP-4 P=10.2	1	Everlight
		Photo	BPC-817MB DIP-4 P=10.2		BaiHong
43	Q1	MOSFEET	TK10A60D 600V 10A TO-220F	1	Toshiba
		MOSFEET	HF10N65 650V 10A TO-220F		HF/JF
44	C1	E cap	120uF 400V±20% 105℃18*30mm(BXW)	1	Rubycon
45	C6	E cap	10uF 50V±20% 105℃ Φ5*11mm(YXF)	1	Rubycon
46	C8,C9	E cap	470uF 35V±20% 105℃ Φ10*20mm(ZLH)	2	Rubycon
47	C10	E cap	270uF 35V±20% 105℃ Φ8*16mm(ZLH)	1	Rubycon
48	JP1	JUMP WIRE	Φ0.5mm	13	UME
49	RT	JUMP WIRE	Φ0.5mm	25	UME

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-SP22020801/A1
品 名 Product	开关电源 SPS	型 号 Model	AD-AKC240P250	日期 Date	2025-08-07

50		Silicon Sheet	52*30*2.5mm	1	GK/HY
51		Silicon Sheet	50*40*1mm	1	GK/HY
52		Silicon Sheet	15*25*3mm	1	GK/HY
53		Light Pipe	4.52*2.01*2.5+Φ6*Φ4.52 d=9.04mm	1	JinTonZhou
54		DC Cable	Φ2.1*5.5*9.5 2464 18AWG 1500mm BK	1	DPK/GC
55		AC Cable	<PS>E 2*0.75 mm ² VCTFK L = 1800mm, Black, Lead-free soldering	1	Kailiangao/JR
56		Case	UME 6005A BK	1	JLF/YGE
57		Case	UME 6005B BK	1	JLF/YGE
58		Bubble Wrap	195*115	1	Xincheng
59		Valve bag	140*210*0.05T	1	Xincheng
60		Valve bag	95*155*0.05T	1	Xincheng
61		CARTON	470*380*195mm	0.0222	XinRuicheng/ FuXing
62		LINER	465*365*3mm	0.0222	XinRuicheng/ FuXing
63		Blisters	460*370*65mm	0.06667	Yuxiang
64		UL Bond	UB-100	0.55	U-BAN
65		Solder Bar	Pb free	0.4	YUNNANXIYE
66		Solder wire	Pb free	0.2	YUNNANXIYE

批准 Approval:	ZL	审核 Check:	ZL	制表 Execution:	BMD
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