UMEN 厦 门 友 盟 电 子 有 限 公 司

XIAMEN UME ELECTRONICS CO.,LTD.

# 产品规格承认书
# SPECIFICATION

**文件编号 File No.：** UME-EG-SP24053101/A1

| | | | |
|---|---|---|---|
| 客户<br>Customer | AKON | 核准<br>Approval | ZL |
| 品名<br>Product | 开关电源<br>Switching power supply | 品管确认<br>QC | LTF |
| 型号<br>Model | AD-B160P375 | 审核<br>Check | ZL |
| 日期<br>Date | 2024-05-31 | 拟制<br>Execution | BMD |

| 客户承认意见<br>Confirmation by Customer | 客户签署<br>Stamp & Signature |
|---|---|
| ☐**合格** ☐**不合格** ☐**条件合格**<br>**Accept** **Reject** **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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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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## 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 | 2024-05-31 | 1.First Issue | BMD | ZL | ZL |
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## 2 概述 Summary

2.1 本文件包含一般的客戶要求及电气、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【JET6108-61010-1009】

### 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*0.75㎟ VCTFK<br>L = 1800mm, Black, Lead-free soldering |

### 3.3 Output

| | |
|---|---|
| Rated output voltage | 16V±5% |
| Rated Load Current | 3750mA |
| Over Current Protection | 100%-150% @Vin=90Vac-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 | 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.<br>AC input = Rating voltage (100/240V) | Less than 250 μA |
| 2 | ESD Test | 1.Test is conducted at room temperature/humidity.(25℃, RH 50-60%)<br>2.Test set is 150pF/150Ω.<br>3.(1)±4KV:Contact discharge test. +phase: 3times, －phase: 3times, total: 6times. (2)±8KV:Air discharge test. +phase : 3times, －phase: 3times, total: 6times.<br>(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%)<br>2.Test set is 150pF/150Ω.<br>3.(1)±6KV:Contact discharge test. + phase: 3times, －phase: 3times total: 6times. (2)±10KV:Air discharge test. + phase: 3times, －phase: 3times, total: 6times.<br>(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%)<br>2.Test condition: 150pF/150Ω.<br>3,Contact discharge / Air discharge<br>4,Load: 1)no load 2)rated load<br>5. Impressing 10 times continuously to plus and minus each.<br>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.<br>Test place=Between AC blade and DC plug<br>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),<br>2.Load: Charge actual Cellular phone<br>3.Measure the surface temperature of the adaptor<br>4.T ambient = The room temperature<br>5.Condition: Until it carries out temperature saturation (the definition of temperature than 1℃ in 1 hour). | Housing surface Temperature rise is less than 45K. |
| | | 1.Apply rating input voltage(100/240V), | Housing surface Temperature rise is less than 15K. |



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| | | | |
|---|---|---|---|
| | | 2.No Load<br>3.Measure the surface temperature of the adaptor | |
| 6 | Input over / under | Apply voltage=(rating input voltage)x(1±30%)<br>Impressed time：24h | No destruction |
| 7 | EMI/Conducted Emission | Telephone stand by mode with rapid-charge condition | Conform to:<br>FCC 47CFR Part 15 Class B<br>J55014-1 |
| 8 | Surge | IEC61000-4-5<br>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:<br>0℃ to 40℃<br>Electrical performance not guarantees working temperature range: -20℃ to 50℃<br>Storage temperature range: -30℃ to 80℃ | No abnormal appearance, mechanic performance or electric performance |
| 2 | High Temperature Leave | 1. Temperature 80℃ for 96 hours.<br>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.<br>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.<br>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.<br>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<br>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%<br>B : RH= 90 ± 5%<br>E : No limit<br>After 5cycles, put EUT at room temperature/humidity condition | |



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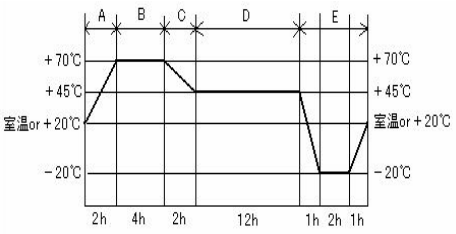
|---|---|---|---|
| | |  | |
| 8 | Humidity | Operation is 10~85%.<br>Storages is 5~95% | Non-condensing |

**【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.<br>2. Drop test points (1) 1 corner (2) 2 edges (3) 4 surfaces, Total: 7times drop test.<br>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$^2$<br>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.<br>(1)Top/Bottom direction : 12.5(m/S$^2$)30(min)<br>(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. Don't take the label off the main body |
| 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 |



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**【DC cord Test Items】**

| Item | | Conditions | Criteria |
|---|---|---|---|
| 1 | DC Cord strength (adaptor side／plug side) | 1. Test part: Between adaptor and DC cord<br>2. Pull a cord with 49N(5Kgf) force<br>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)<br>Angle = +/-90º<br>Cycles in every minute = 40times/min.<br>Test cycles = 1000times<br>Note: contrarotate 90º, and then rotate it clockwise with 180 º(+90º ~-90º）, and at last return to origin.<br>（1 Cycle：0º ⇒-90º ⇒0º ⇒+90º ⇒0º） | 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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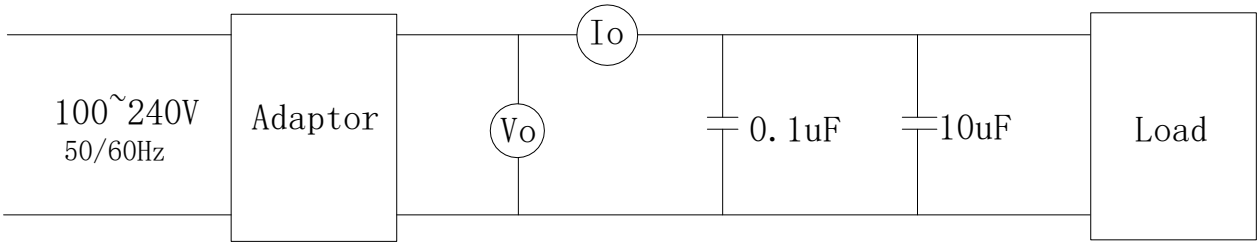
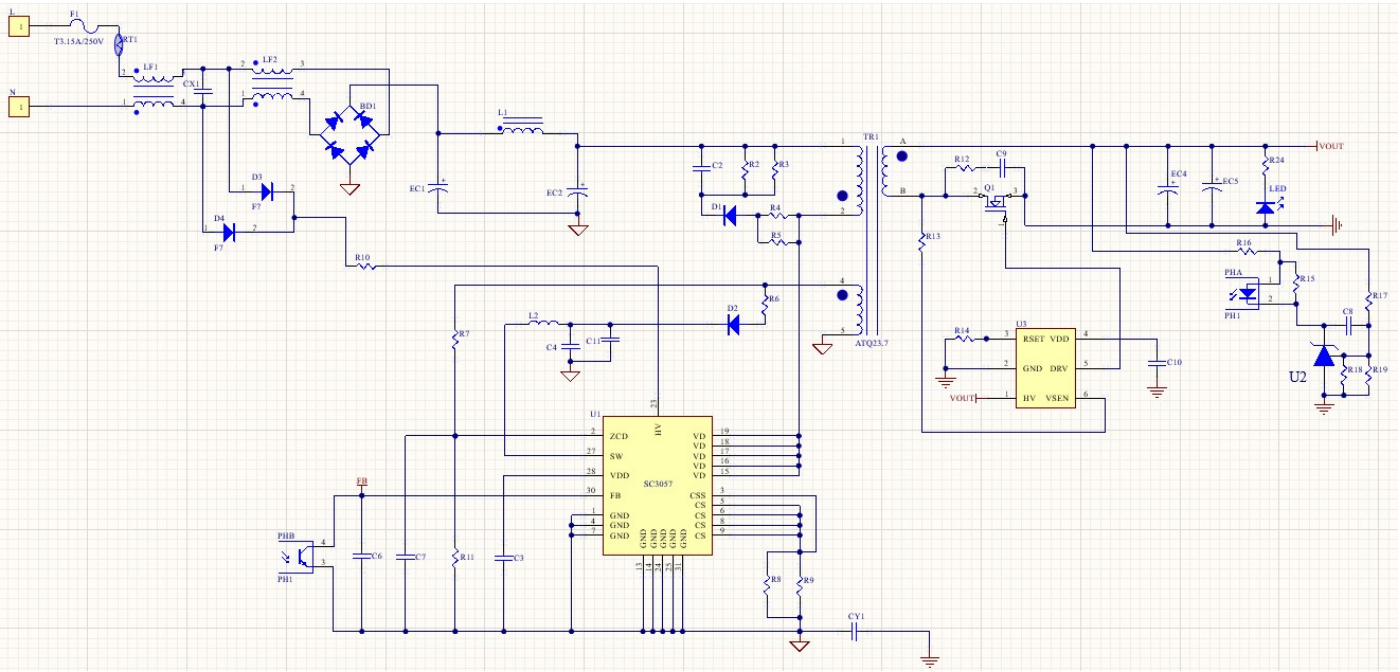
### 3.5 测试线路图 Test Circuit




## 4 线路图 Schematic Diagram





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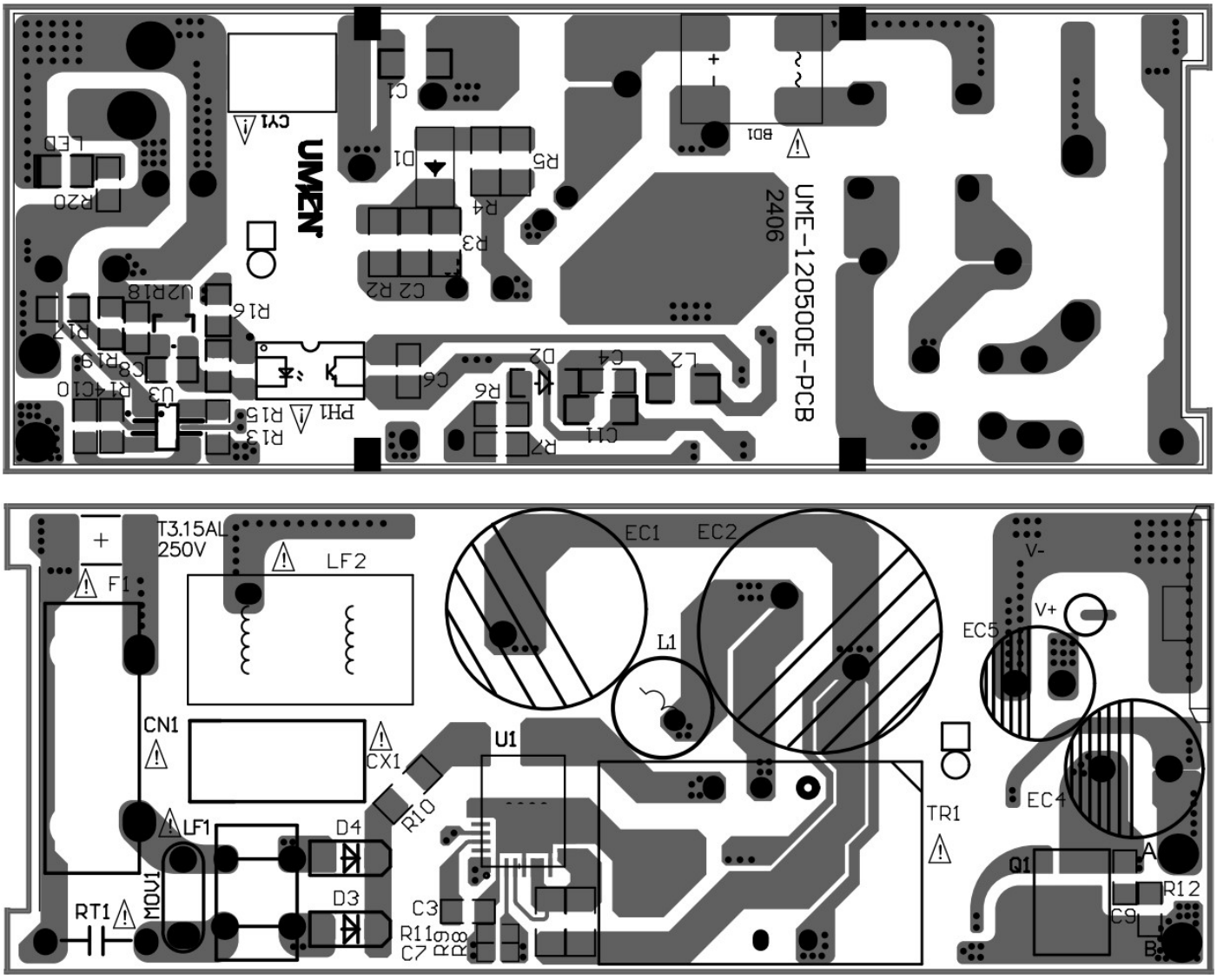
## 5 电路板图 P.C.B



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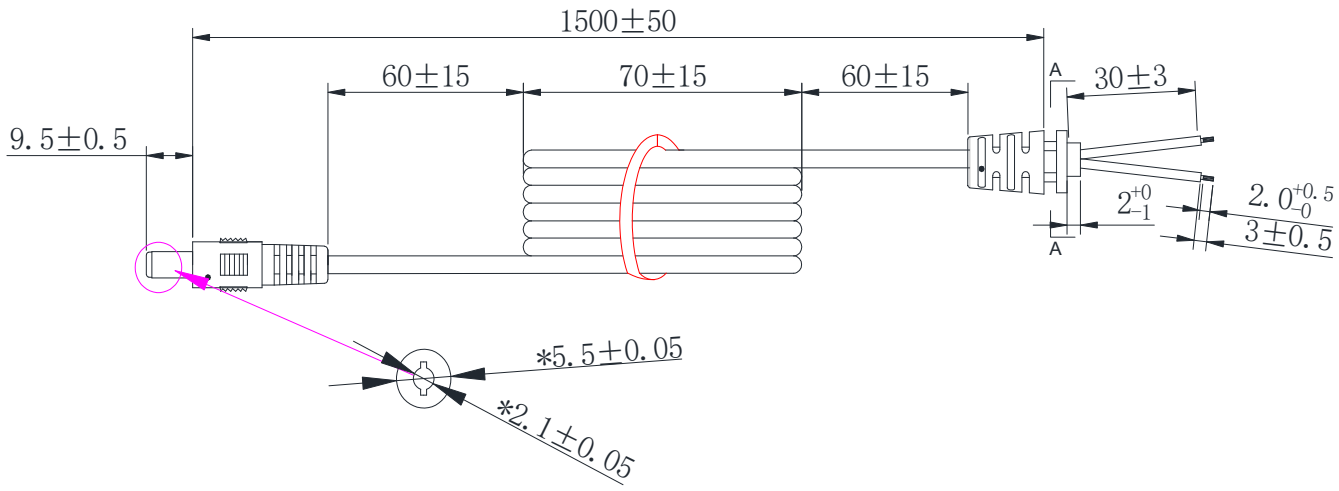
6 CORD 图（单位 unit：mm 颜色 color：Black）




备注：

1. 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;
2. 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.
3. 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
4. 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;
5. 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;
6. PLUG绝缘阻抗测试：100MΩMIN在500DC/分; PLUG接触阻抗测试：100mΩMAX;
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;



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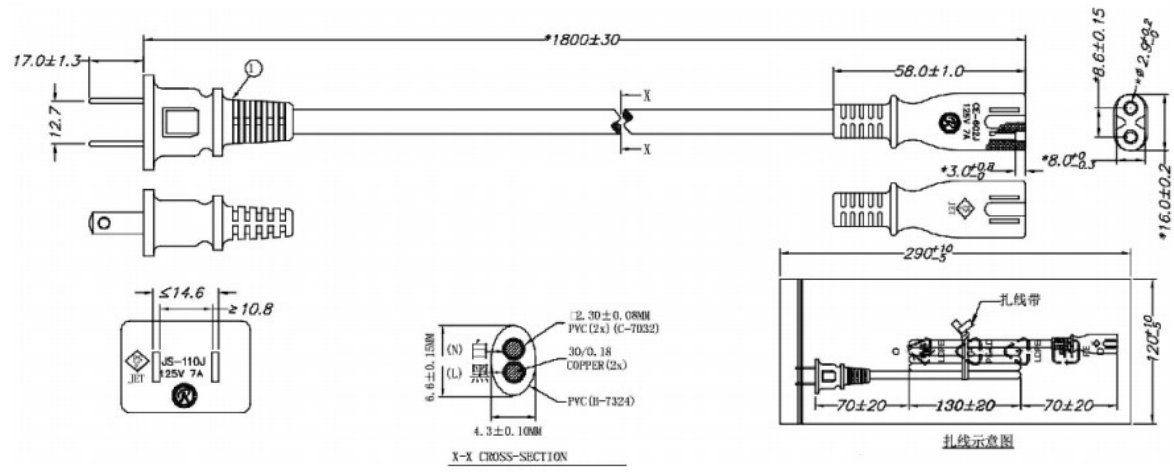
## 7 AC CORD 图




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 | | 图 号 | CORD-120500M | 版本 |
| | | | | | | | 编 号 | LJDY0120017 | 1.0 |
| | | | | | 日期 | 2021-9-25 | 产品型号 | SW-120500T9 | |



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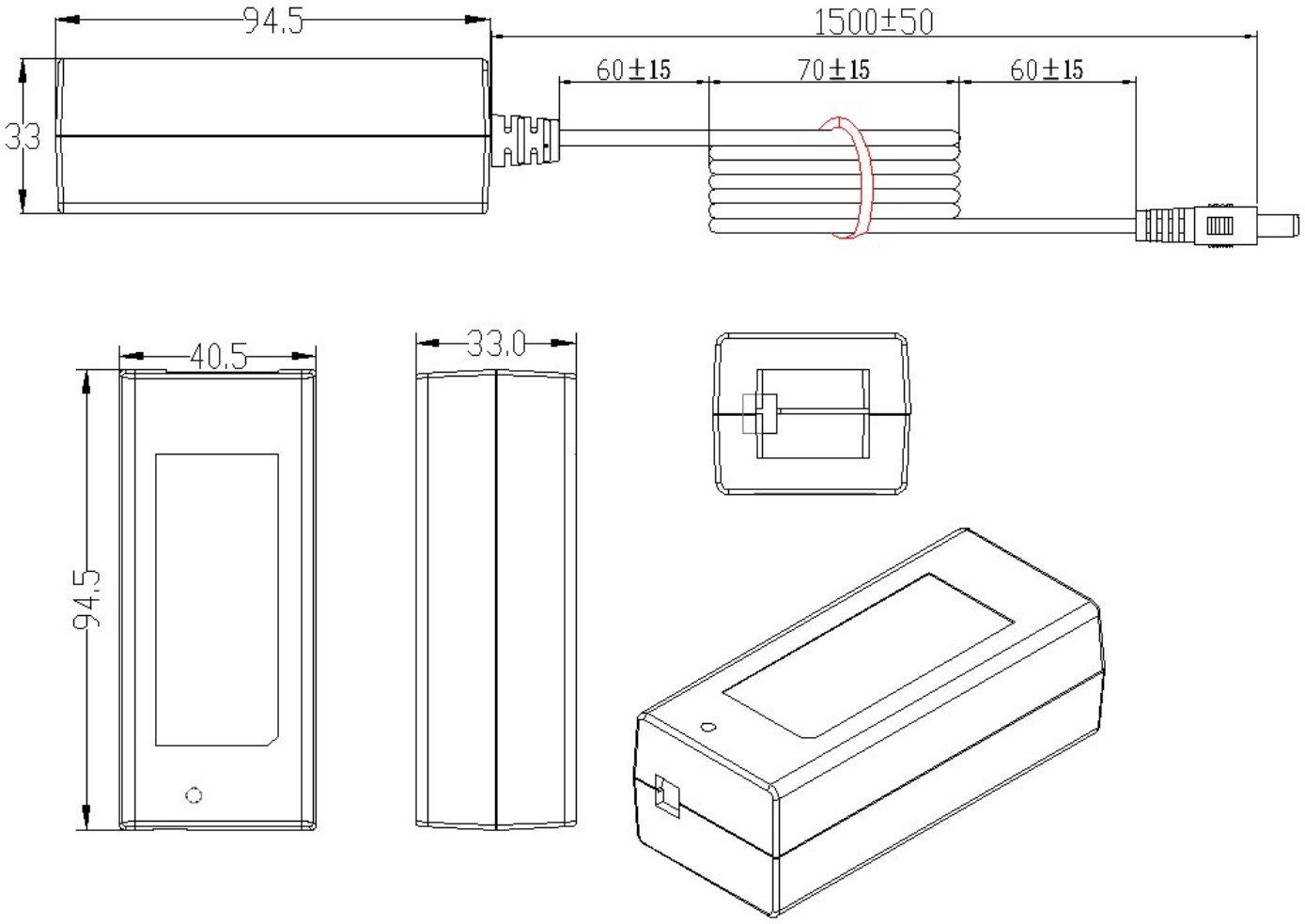
**8 外观示意图 Cord and Mechanical Drawing（单位 unit：mm 颜色 color：Black）**



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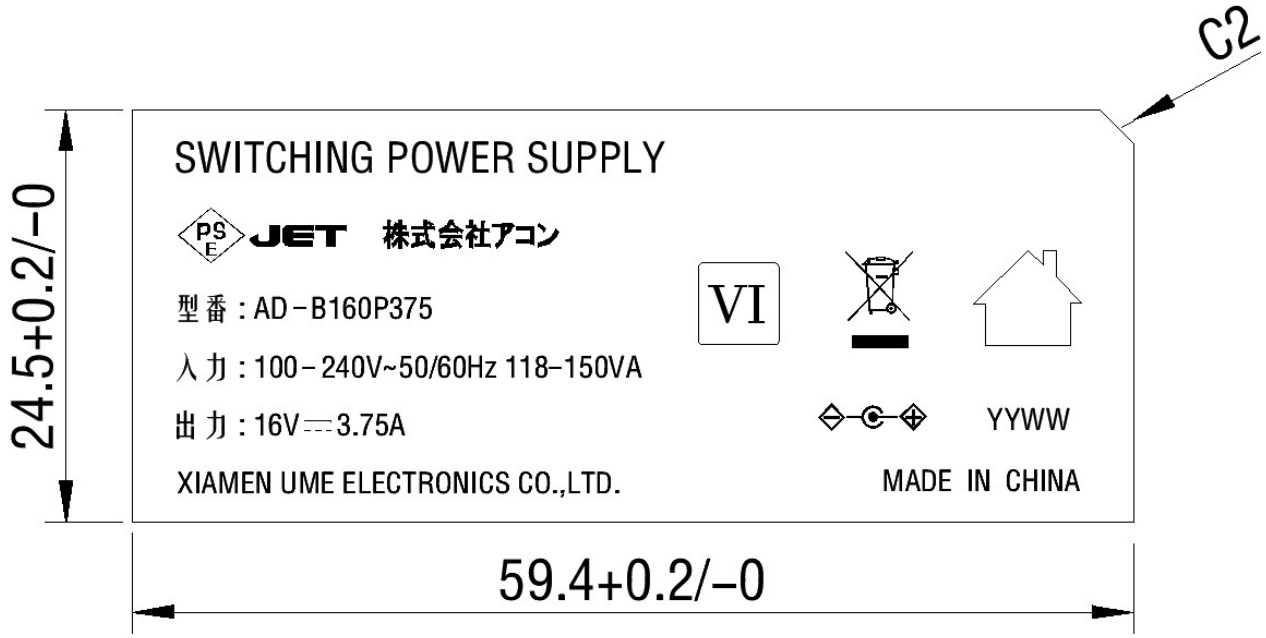
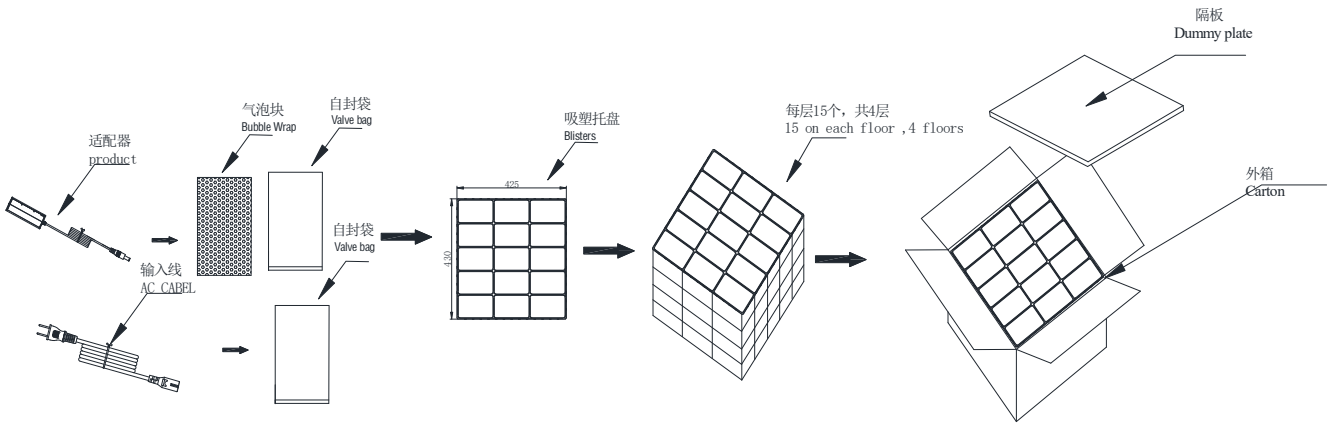
## 9 铭板标识 Label




## 10 包装方式 Packaging






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

| 产品规格承认书 SPECIFICATION | | | | 文件编号 File No. | UME-EG-SP24053101/A1 |
|---|---|---|---|---|---|
| 品 名 Product | 开关电源 SPS | 型 号 Model | AD-B160P375 | 日期 Date | 2024-05-31 |

**11 BOM list**

| NO | ITEM | DESCRIPTION | SPECIFICATION | QTY | MANUF ACTURER |
|---|---|---|---|---|---|
| 1 | PCB | PCB | UME-120500E-PCB | 1 | TXS/JT/MW/HG |
| 2 | L2 | Chip L | 10uH±10% 1206 | 1 | YAGEO/FengHua |
| 3 | R2,R3 | Chip R | 910KΩ±5% 1206 | 2 | YAGEO/FengHua |
| 4 | R4,R5 | Chip R | 47Ω±5% 1206 | 2 | YAGEO/FengHua |
| 5 | R6 | Dip R | 2.2Ω±5% 1206 | 1 | YAGEO/FengHua |
| 6 | R7 | Dip R | 150KΩ±1% 0805 | 1 | YAGEO/FengHua |
| 7 | R8 | Chip R | 0.33Ω ±1% 1206 | 1 | YAGEO/FengHua |
| 8 | R9 | Chip R | 0.30Ω ±1% 1206 | 1 | YAGEO/FengHua |
| 9 | R10 | Chip R | 5.1KΩ±5% 1206 | 1 | YAGEO/FengHua |
| 10 | R11 | Chip R | 24KΩ±5% 0603 | 1 | YAGEO/FengHua |
| 11 | R12 | Chip R | 4.7Ω±1% 0805 | 1 | YAGEO/FengHua |
| 12 | R13 | Chip R | 10Ω±5% 0805 | 1 | YAGEO/FengHua |
| 13 | R14 | Chip R | 51KΩ±5% 0805 | 1 | YAGEO/FengHua |
| 14 | R15 | Chip R | 1KΩ±5% 0805 | 1 | YAGEO/FengHua |
| 15 | R16 | Chip R | 750Ω±5% 0805 | 1 | YAGEO/FengHua |
| 16 | R17 | Chip R | 68KΩ±1% 0805 | 1 | YAGEO/FengHua |
| 17 | R18 | Chip R | 15KΩ±1% 0805 | 1 | YAGEO/FengHua |
| 18 | R19 | Chip R | 68KΩ±1% 0805 | 1 | YAGEO/FengHua |
| 19 | R20 | Chip R | 15KΩ±5% 0805 | 1 | YAGEO/FengHua |
| 20 | C1 | Chip R | 103 1KV±5% 1206 X7R | 1 | YAGEO/FengHua |
| 21 | C2 | Chip R | 102 500V±10% 1206 X7R | 1 | YAGEO/FengHua |
| 22 | C3 | Chip C | 225 50V±10% 0805 X7R | 1 | YAGEO/FENG HUA |
| 23 | C4,C8 | Chip C | 104 50V±10% 0805 X7R | 2 | YAGEO/FENG HUA |
| 24 | C6 | Chip C | 102 50V±10% 0805 X7R | 1 | YAGEO/FENG HUA |
| 25 | C9 | Chip C | 102 200V±10% 0805 X7R | 1 | YAGEO/FENG HUA |



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|---|---|---|---|---|---|
| 品 名 Product | 开关电源 SPS | 型 号 Model | AD-B160P375 | 日期 Date | 2024-05-31 |

| | | | | | |
|---|---|---|---|---|---|
| 26 | C10 | Chip C | 224 50V±10% 0805 X7R | 1 | YAGEO/FENG HUA |
| 27 | C11 | Chip C | 106 50V ±10% 1206 X7R | 1 | YAGEO/FENG HUA |
| 28 | U1 | IC | SC3057 | 1 | NX |
| 29 | U2 | IC | CJ431±0.5% SOT-23 | 1 | Changdian/UTC |
| 30 | U3 | IC | SC3503 | 1 | SC |
| 31 | D1 | Diode | RS2MS 2A/1000V/SMAF | 1 | JF/MIC/PANJIT |
| 32 | D2,D3,D4 | Diode | F7 1A/1000V/SOD-123FL | 3 | JF/MIC/PANJIT |
| 33 | PH1 | Optocoupler | EL1018(TA)-VG | 1 | EVERLIGHT |
| 34 | | Optocoupler | BPC-1008 | | BH |
| 35 | | Optocoupler | CT1018(V)(T1)-W | | KJ |
| 36 | BD1 | Rectifier Bridge | TDF80M TDF 8A 1000V | 1 | LEC |
| 37 | | Rectifier Bridge | LX80M Z4PAK-D | | ZW |
| 39 | LED | LED | 0805 | 1 | BH |
| 40 | F1 | FUSE | DESC 24T 3.15A 250VAC | 1 | FYS/XC |
| 41 | CY1 | Y cap | SMD Y1 222M400VAC | 1 | TRX |
| 42 | Q1 | Mosfeet | SFS12R08GNF PDFN5*6 120V 240A | 1 | DW |
| 43 | | Mosfeet | KSA202NAT | | GY |
| 44 | | silicon sheet | 18*50*4.0mm | 1 | GK |
| 45 | | silicon sheet | 18*50*4.0mm | 1 | GK |
| 46 | RT1 | Thermisto | 2.5Ω 5A SCK-2R55A | 1 | STE |
| 47 | MOV1 | Varistor | 07D471±10% | 1 | ST |
| 48 | CX1 | X Cap | 0.33uF 250V±20% P=15 | 1 | STE |
| 49 | L1 | Inductance | 50UH MIN Φ0.5mm Φ6*10 | 1 | HXH/CS/JY |
| 50 | LF1 | Inductance | 0.8mH MIN ϕ 0.5mm UEW+TLW | 1 | HXH/CS/JY |
| 51 | LF2 | Inductance | 25mH SQ1212 | 1 | HXH/CS/JY |
| 52 | CN1 | AC INLET | HC-801-5-P4 | 1 | HD |
| 53 | | AC INLET | ST-A03-005AT5 (A:1.7) 2PIN 22.5*17.5*13 | | BEJ |
| 54 | TR | TRANSFMOR | TR-190315B | 1 | HXH/ CXY |



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|---|---|---|---|---|---|
| 品 名 Product | 开关电源 SPS | 型 号 Model | AD-B160P375 | 日期 Date | 2024-05-31 |

| | | | | | |
|---|---|---|---|---|---|
| 55 | EC1 | E cap | 39uF 400V±20% 105℃ φ14.5*20mm(BXW) | 1 | Rubycon |
| 56 | EC2 | E cap | 68uF 400V±20% 105℃ Φ18*20mm(BXW) | 1 | Rubycon |
| 57 | EC4 | E cap | 390uF 25V±20% 105℃ Φ10*12mm(PZ ) | 1 | AISHI |
| 58 | EC5 | E cap | 560uF 25V 8*16 (PZ) | 1 | AISHI |
| 59 | | Light Pipe | Φ3.0*3.3 | 1 | JLF/XF |
| 60 | | DC Cable | Φ2.1*5.5*9.5 2464 18AWG 1500mm BK | 1 | DPK/GC |
| 61 | | AC Cable | <PS>E 2*0.75㎡ VCTFK L=1800mm, Black, Lead-free soldering | 1 | KailianGao |
| 62 | | Case | UME 3006A BK | 1 | JLF/XF |
| 63 | | Case | UME 3006B BK | 1 | JLF/XF |
| 64 | | Nameplate | NAP-160375C1-PSE | 1 | YiHangXing |
| 65 | | Bubble Wrap | 195*115 | 1 | Xincheng |
| 66 | | Valve bag | 140*210*0.05mm | 1 | Xincheng |
| 67 | | Valve bag | 95*155*0.05mm | 1 | Xincheng |
| 68 | | CARTON | 470*370*270 | 0.01667 | XRC/FX/HXH |
| 69 | | LINER | 465*365*3mm | 0.01667 | XRC/FX/HXH |
| 70 | | plastic tray | 462*130*5mm | 0.06667 | XRC/FX/HXH |
| 71 | | White glue | AP-688 | 1.2 | JX |
| 72 | | Solder Bar | Pb free | 0.4 | YUNNANXIYE |
| 73 | | Solder wire | Pb free | 0.2 | YUNNANXIYE |



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