



标准&定制开关连接器产品制造商
DONG GUAN XI BANG ELECTRONICS CO., LTD.

规格书 SPECIFICATION

CUSTOMER NAME 客户名称: _____
 CUSTOMER NO. 客户编号: _____
 SERIES 系列: AC电源插座
 MODEL NO. 型号: _____
 DRAWING NO. 图形号: AC power socket

If specification of this product meets your request, please confirm all the items of it and return to us with signature and stamp, it will be basis of our production and record. Thanks your cooperation in advance!

若此产品规格符合贵司要求，敬请确认此规格书内所有项目
 并签名和盖章后回传给我司，以作我司产品制作之
 依据和存档之用，多谢合作！

EXAMINE & APPROVAL 审批

APPROVE 接受	NOT APPROVE 不接受
SIGNATURE 签署 STAMP 盖章 DATE 日期	

PREPARED BY. 制表人	CHECKED BY. 校对	APPROVED BY. 审核	APPROVAL BY. 批准
<div style="border: 1px solid red; padding: 2px;">研发部</div> <div style="border: 1px solid red; padding: 2px;">戴海明</div> <div style="border: 1px solid red; padding: 2px;">2022. 06. 08</div>	<div style="border: 1px solid red; padding: 2px;">品质部</div> <div style="border: 1px solid red; padding: 2px;">黄自清</div> <div style="border: 1px solid red; padding: 2px;">2022. 06. 08</div>	<div style="border: 1px solid red; padding: 2px;">工程部</div> <div style="border: 1px solid red; padding: 2px;">庞军</div> <div style="border: 1px solid red; padding: 2px;">2022. 06. 08</div>	<div style="border: 1px solid red; padding: 2px;">总经办</div> <div style="border: 1px solid red; padding: 2px;">吴量</div> <div style="border: 1px solid red; padding: 2px;">2022. 06. 08</div>

东莞市溪榜电子有限公司

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MAil: HK@ALPSR.CN XB@ALPSR.CN
 Quality core! Afterburner for Made in China!



电气额定值 Rating	UL/cUL 15A 250V AC VDE/ENEC 10A 250V AC CCC 10A 250V AC KC 10A 250V AC
标准Standard	60320-1

1. 概述 General :

1.1适用范围: 本规格主要适用于一般电子设备上之IEC60320 C14型器具输入插座。

Application: This specification is applied to the IEC60320 C14 inlet used in electronic equipment.

1.2使用温度范围: -10°C ~ 70°C 。

Operating Temperature: -10°C ~ 70°C

1.3产品测试条件: 环境温度 5°C ~ 35°C , 相对湿度: 45%~85%RH, 气压: 86Kpa-106Kpa

Test Conditions: Temperature Range: 5°C ~ 35°C ; Humidity Range: 45%~85%RH; Air pressure: 86Kpa-106Kpa

2. 外观、结构、尺寸Appearance Construction and Dimensions

2.1外观: 各部分之加工须良好, 插座不能生锈、刮伤、裂痕、电镀不良及剥离等现象产生。

Appearance: Socket shall have good finishing, and shall have no rust, crack or plating failure.

2.2结构与尺寸: 依照产品图面。

Construction and Dimensions: As per product drawing.

3. 电气性能Electrical Performance

项次 No.	项 目 Property	测试条件 Test Conditions	判定标准 Standards
3.1	接触阻抗 Contact Resistance	以直流电压5V/1分钟, 电流不超过1A状态下进行测试。 Measure with 1A or less current at 5V DC for 1 min.	$\leq 30\text{m}\Omega$
3.2	绝缘阻抗 Insulation Resistance	以500VDC之电流于下述位置测试1分钟 ± 5 秒。 测试位置: 1. 在开路端子之间 2. 在端子与塑胶外壳之间 Test with DC 500V at following position for 1min ± 5 s. Test position: 1. Between all terminals of any open circuit. 2. Between terminals and plastic base.	100M Ω 以上 More than 100M Ω
3.3	耐电压 Withstand Voltage	将产品施以交流电压于下述位置并以下列条件测试之。 开路端子之间: 2500V AC(50-60Hz) 1min 端子与塑胶外壳之间: 3750V AC(50-60Hz) 1min 漏电流: 1mA Test with AC current at following position as following condition. Between all terminals: 2500V AC(50-60Hz) 1min Between terminals and plastic base: 3750V AC(50-60Hz) 1min Leakage Current: 1mA	不能有击穿、电弧导通或火花产生。 Any dielectric breakdown or arc shall not occur.



4. 机械性能 Mechanical Performance

项次 No.	项目 Property	测试条件 Test Conditions	判定标准 Standards
4.1	插拔力 Insert and Extract Force	使用标准插头治具插拔10次后测试插座的插入力和拔出力。 Test the insert and extract force of socket after plugging in and unplugging 10 times by standard plug gauge.	1.36kgf~6.8kgf
4.2	端子强度 Terminal Strength	将产品置放于70℃环境中1小时后，以60N的力垂直作用于端子顶部1分钟。 Test with 60N force from vertical direction on top of terminal for 1 min after keeping the product under temperature 70℃ for 1hour.	端子移动量不可超过2.5mm Terminal shall not be moved exceeding 2.5mm.
4.3	安装孔强度 Driving strength of mounting holes	以锁入力9kg-cm将M3螺丝穿过产品安装孔并锁入模具螺孔内。 Driving M3 screw through the mounting holes to the mating parts in torque force 9kg-cm.	安装孔不可破裂 No damage or break on mounting holes.

5. 耐久性能 Durability Performance

项次 No.	项目 Property	测试条件 Test Conditions	判定标准 Standards
5.1	可焊性 Soldering Ability	将端子顶部浸入温度为255℃±5℃的焊锡池中约2mm深，浸入时间为3±0.5秒。 Dip the top of terminals about 2mm deep in the solder bath of 255℃±5℃ for 3±0.5seconds.	浸渍部分≥95%的面积吃锡 More than 95% are covered by solder.
5.2	耐焊性 Solder Heat Resistance	将端子顶部浸入温度为255℃±5℃的焊锡池中约2mm深，焊锡温度和时间如下： Dip the top of terminals about 2mm deep in the solder bath. The Soldering type and test time is following. 锡炉式Dip Soldering: 260±5℃, 3±1sec; 手焊式Manual Soldering: 350±10℃, 3±0.5sec	不应有外观明显变形和作动功能异常现象 Product shall not have any abnormality on appearance or operating function.
5.3	寿命测试 Life Test	在无负荷状态下使用标准插头治具对产品以1分钟20次的速度，进行6000次的插入、拔出。 Test by standard plug gauge under without load condition, plugging in and unplugging 6000cycles at speed 20 cycles/1 min.	满足机械、电气等性能要求，解除电阻不大于60mΩ。 Mechanical and electrical standard shall be satisfied. Contact resistance shall not exceed 60 mΩ.
5.4	耐湿性 Humidity Endurance	在40±2℃相对湿度90~95%下放置 96小时试验后，置于常温常湿中1小时；除去水滴后测试之。 Keep the product under 40±2℃ and 91-95%RH condition for 96 hours, then store in room temperature and humidity for 1h. Test the product after removing globules on surface.	满足3.2和3.3要求，且塑胶本体无变形或破裂 Product shall not have any abnormality on appearance and conform this tlectrical performance standard 3.2 & 3.3.



项次 No.	项 目 Property	测试条件 Test Conditions	判定标准 Standards
5.5	耐热性 Heat Endurance	在100±2℃条件下放置 96 小时后，置于常温常湿中1小时；除去水滴后测试之。 Keep the product under 100±2℃ condition for 96 hours, then store in room temperature and humidity for 1h. Test the product after removing globules on surface.	满足3.2和3.3要求，且塑胶本体无变形或破裂 Product shall not have any abnormality on appearance and conform this tlectrical performance standard 3.2 & 3.3.
5.6	耐寒性 Cold Endurance	在-20±2℃条件下放置 96 小时后，置于常温常湿中1小时；除去水滴后测试之。 Keep the product under -20±2℃ condition for 96 hours, then store in room temperature and humidity for 1h. Test the product after removing globules on surface.	满足3.2和3.3要求，且塑胶本体无变形或破裂 Product shall not have any abnormality on appearance and conform this tlectrical performance standard 3.2 & 3.3.
5.6	盐雾测试 Salt Spray Test	测试条件：温度35±2℃；盐水浓度5%±1；PH值6.5~7.2；时间24小时。以清水将产品表面冲洗干净，置于室温1小时后检查之。 Test condition: Temperature: 35±2℃, Salt Water concentration: 5%±1, PH:6.5~7.2. After storing product in this condition for 24 hours, to wash product by water and restore in room temperature for 1h. Check the product after removing globules on surface.	无明显氧化或生锈现象发生 The product shall not have any rust or crack on plating.
5.7	球压测试 Ball-Pressure Test	在125±2℃条件下放置 1 小时后，以20N负载重物，顶端为一直径5mm的球体测试之。 After storing the product under 125±2℃ condition for 1 hour, test the product by a 5mm Ball Pressure Test machine with 20N force from vertical direction on Plastic.	压痕直径≤2mm Diameter of the impression≤ 2mm

6. 安全性能Safty Performance

项次 No.	项 目 Property	测试条件 Test Conditions	判定标准 Standards
6.1	灼热丝试验 Glow Wire Test	以温度750℃之灼热丝，接触产品30秒，之后移开。 Touch the specimen with a 750℃ glow wire last 30 second. Check the specimen after moving away the glow wire.	火焰在30秒内熄灭，滴落的残焰不能使绢纸燃烧。 Burning stops within 30 seconds on a vertical specimen; drips of particles allowed as long as they are not inflamed.



项次 No.	项目 Property	测试条件 Test Conditions	判定标准 Standards
6.2	防火等级 Safety of Flammability	将样本点燃后，依据下列情况判断防火等级。 94V-2: 30秒内停止燃烧，允许滴下燃烧的颗粒。 94V-1: 30秒内停止燃烧，允许滴下不燃烧的颗粒。 94V-0: 10秒内停止燃烧，允许滴下不燃烧的颗粒。 Burning the specimen and check the condition by following: V-2: burning stops within 30 seconds; drips of flaming are allowed. V-1: burning stops within 30 seconds; drips of particles allowed as long as they are not inflamed. V-0: burning stops within 10 seconds; drips of particles allowed as long as they are not inflamed.	产品防火等级满足V-2~V-0 Product satisfied V-2 to V-0 condition.

7. 环保要求 environmental requirement:

项次 No.	项目 Property	判定标准 Standards
7.1	RoHS 2.0	此产品遵循RoHS2.0对有害物质管控标准。镉≤100PPM，铅≤1000PPM，汞≤1000PPM，六价铬≤1000PPM，多溴联苯≤1000PPM，多溴二苯醚≤1000PPM，邻苯二甲酸二(2-乙基己基)酯≤1000PPM，邻苯二甲酸丁酯苯甲酯≤1000PPM，邻苯二甲酸二丁酯≤1000PPM，邻苯二甲酸二异丁酯≤1000PPM。 The product follow the RoHS2.0 requirement. Cd≤100PPM, Pb≤1000PPM, Hg≤1000PPM, Cr ⁶⁺ ≤1000PPM, PBBs≤1000PPM, PBDEs≤1000PPM, DEHP≤1000PPM, BBP≤1000PPM, DBP≤1000PPM, DIBP≤1000PPM
7.2	REACH Compliance	此产品遵循欧盟颁布之REACH管制物质标准。 The product follow the European Union REACH requirement.

注意事项 Note

1. 应避免使用也太焊剂，否则易腐蚀；

To avoid causing corrosion, liquid soldering flux shall not be used in soldering process;

2. 如长期储存超过6个月以上，应用塑料袋将产品密封，且放在阴暗干燥处。

If product are going to store more than 6 months, product should be packaged in a plastic bag and placed in dark and dry place.

3 产品储存环境温度建议把控在0° -30°，湿度把控在30%-75%

It is recommended to control the product storage environment temperature at 10-20 ° and humidity at 30% - 60%