

承认书

SPECIFICATION FOR APPROVAL

客户名称 (CUSTOMER): _____

客户料号 (PART NO): _____

客户品名 (DESCRIPTION): _____

送样日期 (DATA) : _____

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客户承认(CUSTOMER APPROVAL)			公司承认 (APPROVAL)		
工程师	审核	批准	工程师	审核	批准
ENGINEER	CHECKED BY	APPROVAL BY	ENGINEER	CHECKED BY	APPROVAL BY

Revision History

[illegible]

1. 电源概况 Power Supply Overview

本产品适用于全球 150 多个国家的消费者去德国、法国、俄罗斯等欧式插座的国家使用，具有体积小，电流大，稳定性好等特点。

This product is suitable for consumers from more than 150 countries to Germany, France, Russia and other European countries to use, with small volume, large current, good stability and other characteristics.

1.1 摘要 Description

外壳材质 Housing Material: PC

导体材质 Conductor Material: 铜 COPPER

防火等级 Fire Rating: 94V0

产品净重 Product NW: 53±10g

产品尺寸 Product Size: 51.8*50.4*58.1mm

产品符合 Rohs 标准 The product meets the Rohs standard

2. 电气规格 Electrical Specification

2.1 AC 输入 AC Input

2.1.1 输入电压 Input Voltage

列举 AC 输入电压范围，在此电压范围内，电源应正常工作并符合所有电气性能要求。

Lists the AC input operating voltage range. The power shall work normally and meet all electrical requirements throughout this range.

AC 输入电压限值 AC Input Voltage Limitations

最小值 Minimum	额定值 Nominal	最大值 Maximum
—	230Vac	—

2.1.3 AC 输入电流 AC Input Current Limiting

AC 额定输入电流 16A .

AC rated input current is 16A .

2.1.2 输入频率 Input Frequency

列举 AC 输入频率范围，在此频率范围内，电源应正常工作并符合所有电气性能要求。

List the AC input operating frequency range. The power shall work normally and meet all electrical requirements throughout this range.

AC 输入频率限值 AC Input Frequency Limitations

最小值 Minimum	额定值 Nominal	最大值 Maximum
-	50Hz	-

2.2 输出规格 Output Specification

2.2.1 AC 额定输出电流 AC Output Current Limiting

AC 额定输出电流 = AC 额定输入电流, 参考 2.1.3 .

AC rated output current = AC rated input current, referenced 2.1.3 .

3. 环境要求 Environment Requirement

3.1 温度 Temperature

工作环境温度: 0℃~35℃ Operating Ambient: 0℃~35℃

贮存环境温度: -20℃~+85℃ Non-operating Ambient: -20℃~+85℃

3.2 湿度 Humidity

工作时: 25%~90%相对湿度 (非冷凝) Operating: 25%~90% relative humidity (Non- condensing)

贮存时: 10%~90%相对湿度 (非冷凝) Non-operating: 10%~90% relative humidity (Non- condensing)

3.3 海拔高度 Altitude

工作时: ≤2000 米 Operating: ≤2000 meters

贮存时: ≤2000 米 Non-operating: ≤2000meters

4. 可靠性 Reliability

4.1 跌落测试 Drop test

在 20mm 橡木地面，从 1 米高度每个面跌落 1 次，产品不破裂，晃动产品内部无异声或明显部分松动，电性能正常。

In the 20mm oak ground, drop from 1 meter each side once, the product does not break, shake the product internally sound or obviously loose, Normal electrical performance.

4.2 挤压测试 Extrusion test

将产品放在试验机的钢制底板上，施加 300N 的力，时间 1 分钟，试验温度 $23 \pm 2^{\circ}\text{C}$ ，将产品从试验机上取出 15 分钟后，检查产品不破裂，电性能正常。

Put the product on the testing machine of steel plate, put 300 N force, time to 1 minute, to test the temperature of $23 + 2^{\circ}\text{C}$, remove products from the testing machine after 15 minutes, check the product is not broken, Normal electrical performance.

4.3 金属部件盐雾测试 Salt spray test for metal parts

5%的 NaCl 熔液，PH 值在 6.5-7.3 之间， 35°C 的环境下经盐雾试验机 $1.4 \pm 0.2\text{cm}^2$ 的气压自动喷雾 24 小时，取出在室温放置 4 小时，使用清水清洗自然晾干，金属部件无腐蚀、生锈等异常现象。

5% NaCl liquid, PH value between 6.5 to 7.3, 35°C environment by the salt spray tester $1.4 \pm 0.2\text{cm}^2$ pressure automatic spray for 24 hours, remove at room temperature for 4 hours, Use tap water to wash and dry naturally, metal parts without corrosion, rust and other anomalies.

4.4 落球冲击测试 Falling ball impact test

将产品以正常位置固定好，用质量为 $500\text{g} \pm 25\text{g}$ 的实心钢球使其从距离样品垂直距离为 1.3M 处自由落到样品上 A 级面（不含按键面），检查产品无明显破裂，电性能正常。

Fix the product in the normal position and use solid steel ball with weight of $500\text{g} \pm 25\text{g}$ to make it freely fall to the a-level surface (excluding the key surface) of the sample from the vertical distance of 1.3m, check the product is not broken, Normal electrical performance.

4.5 插脚插拔耐久性测试 Test the durability of plug

以 200 次/时的速度，将产品上的插头分别连续插拔 2000 次，插脚不可以松动，电性能正常。

At the speed of 200 times/hour, the plug on the product is successively plugged and unplugged for 2000 times, the plug can not be loose, Normal electrical performance.

4.6 插座插拔耐久性测试 Test the durability of plug

以 200 次/时的速度，用测试插头插入插座连续插拔 2000 次，插入力 $\leq 50\text{N}$ ，电性能正常。

At the speed of 200 times/hour, the test plug is inserted into the socket for 2000 times, and the insertion force is $\leq 50\text{N}$. The electrical performance is normal.

5. 安规 Safety standard

5.1 绝缘强度 Dielectric strength

在 $25\pm 2^\circ\text{C}$ 环境下，在 AC 插头与外壳之间输入 DC 500V 1 分钟，绝缘阻抗 $\geq 10\text{M}\Omega$ 。

In $25\pm 2^\circ\text{C}$, between the AC plug&housing, the input is DC500V 1minute, Insulation resistance $\geq 10\text{M}\Omega$.

5.2 铜片温升 The temperature rise of the copper

$25\pm 2^\circ\text{C}$ 环境下，将产品插入标准试验插座，测试端子触点温升不超过 50K 。

$25\pm 2^\circ\text{C}$ environment, insert the product standard test socket, test terminal contact temperature rise shall not exceed 50K .

5.3 耐热测试 Heat resistance test

将样品存放在 $70\pm 2^\circ\text{C}$ 的加热箱内 7 小时，试验结束后标志应清晰可见，塑胶件无明显变形、开裂等现象。

Stored in a sample of $70 + 2^\circ\text{C}$ heating in 7 hours, after the test mark should be clearly visible, no obvious plastic deformation and cracking phenomenon.

6. 产品外观 Product Appearance Inspection

6.1 塑胶外壳 Plastic Shell

距离肉眼 30-45CM, 45° 度角，检查时左右上下晃动 15° 目视检查，外观面无明显缩水、缺胶、划痕、批锋及其它机械损伤。

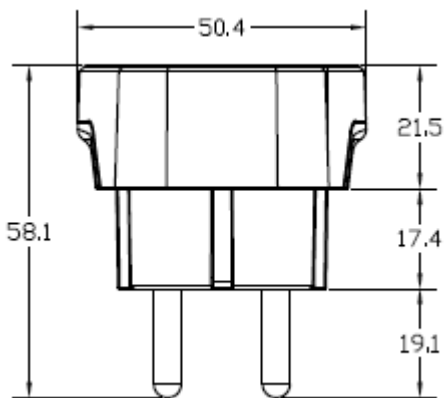
The eyesdistance is 30-45cm, angle: 45° , right&left, up&down waggle is with 15° when inspecting, the appearance isn't shrunked obviously, light stock, scratch, without burr, and other mechanical damages.

6.2 喷涂 Spray-finishing

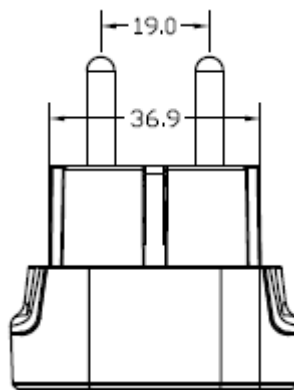
距离肉眼 30-45CM, 45 度角, 检查时左右上下晃动 15 度目视检查, 喷涂无明显积油、少漆、露底色、脱漆、异色点等不良。用 $\geq 99.5^{\circ}\text{C}$ 无醇酒精以 60 次/分钟来回擦拭 50 次, 试验完成后允许字体有轻微的磨损及退色, 但要求字体内容仍完整可辨认。

The eyes distance is 30-45cm, angle: 45° , right&left, up&down waggle is with 15° when inspecting, the spray-finishing doesn't have obviously paint accumulation, lacking paint, leaked ground color, paint drop, unlikeness color dot etc. With $\geq 99.5^{\circ}\text{C}$ Alcoholic wipe 50 times back and forth to 60 times/min, after the completion of the test allows fonts have slight wear and discoloration, but required font content still complete can identify.

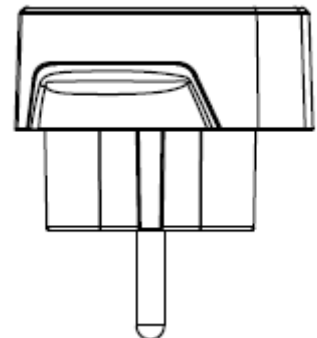
7. 产品视图 Product Drawing



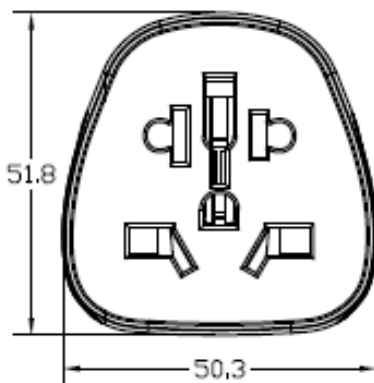
前视图



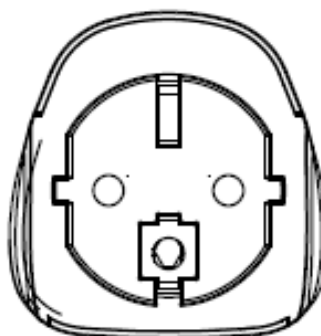
后视图



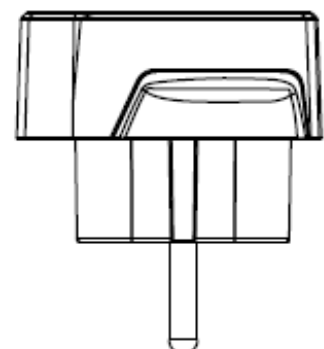
左视图



俯视图



仰视图



右视图