

确 认 书

APPROVAL SHEET

客 户: 诺 力

机 种 名 称: 锂离子电池充电器

型 号: SSLC300V29

发 行 版 本: A/0

发 行 日 期: 2018-7-4

品 号: BZ87X2J3

规 格:

输出电压	29.4V
输出电流	8A
输 入 端	欧规3PIN 品字尾
输 出 端	诺力专用线
标 签	英文标签
包装盒	中性牛皮纸
电压输出方式	触发输出

承 制 方:

编 制	审 核	批 准
黄 永 清		

使用方:

主 管	核 准



无 锡 三 石 电 子 有 限 公 司

WUXI SANS ELECTRONIC CO., LTD.

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版本: A/0

日期: 2018-7-4

修改记录

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品号: BZ87X2J3

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产品功能简介:

本款充电器为智能锂电池充电器;本充电器同时设定了过流、短路、防倒灌、输出开路、内部温度保护以及最低充电限制等多重保护,有效防止充电器损坏引起的事故及起火事件。



目 录

1. 输入特性Input characteristics

- 1.1 额定输入电压 Rated input voltage
- 1.2 输入电压范围 Input voltage range
- 1.3 输入频率范围 Input frequency range
- 1.4 效率 Efficiency
- 1.5 空载功率 No-load power
- 1.6 空载输入电流 No-load input current
- 1.7 功率因素 Power Factor

2.输出及充电特性灯指示功能: Characteristics of light output and charging functionality instructions

- 2.1 额定输出电压 Rated output voltage
- 2.2 输出电流 Output current
- 2.3 输出电压范围 Output Voltage Range
- 2.4 输出电压纹波和噪声 Output voltage ripple and noise
- 2.5 充电器最低充电电压 Minimum battery charge voltage
- 2.6 保持恒流充电最低电压 Maintain constant current charging a minimum voltage
- 2.7 低电压下小电流恒流充电 A low voltage, low current constant current charge
- 2.8 正常恒流充电 Constant-current charge
- 2.9 灯转换—红灯转绿灯 Light conversion - Red light turn to green
- 2.10 灯转换—绿灯转红灯 Light conversion - Green light turn to red

3. 保护特性: Features

- 3.1 过流保护 Over-current protection
- 3.2 短路保护 Short-circuit protection
- 3.3 防倒灌保护 Anti-intrusion protection
- 3.4 温度保护 Temperature protection



无锡三石电子有限公司
WUXI SANS ELECTRONIC CO.,LTD.

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4. 环境特性: Environmental characteristics

- 4.1 绝缘强度 (耐压) Dielectric Strength (Pressure)
- 4.2 绝缘电阻 Insulation Resistance
- 4.3 安规要求 Safety requirements
- 4.4 温度 Temperature
- 4.5 湿度 Humidity

5. 机械性能: Mechanical properties

- 5.1 外壳尺寸 Shell Size
- 5.2 输入AC插座 AC input socket
- 5.3 输出DC线 DC output line
- 5.4 颜色 Color

6. 安规认证 Safety certification

7. 产品成品图 Finished map products

8. 输入AC线规格 The specifications of the input AC line

9. 输出DC线的规格 The specifications of the output DC line

10. 标签 Label

11. 包装盒 Packing Box

12. 说明书 Operation manual



无锡三石电子有限公司
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电气性能要求: Electrical performance requirements

1. 输入特性: Input characteristics

序号 Serial number	条件说明 Conditions	规格 Specifications
1.1 额定输入电压 Rated input voltage	\	230V
1.2 输入电压范围 Input voltage range	连续 Continuously	180Vac -240Vac
1.3 输入频率范围 Input frequency range	连续 Continuously	50/60Hz
1.4 效率 Efficiency	Vin 230Vac/ Full Load	$\geq 87\%$
1.5 空载功率 No-load power	230Vac/Out 0A	Max 5W
1.6 空载输入电流 No-load input current	230Vac/Out 0A	$\leq 120 \text{ mA}$
1.7 功率因素 Power Factor	230Vac/ Full Load	Min 0.9

2. 输出和充电特性、灯指示功能: Output and charge characteristics, functional lights instructions

序号 Serial number	条件说明 Conditions	规格 Specifications
2.1 额定输出电压 Rated output voltage	4. 2*NV	29.4V
2.2 输出电流 Output current	在恒压模式 at constant voltage mode	8.0A $\pm$ 0.5A
2.3 输出电压范围 Output Voltage Range	输出空载以DC线末端为准 at the output end of DC cable	29.2V $\leq$ Vo $\leq$ 29.6V
2.4 输出电压纹波和噪声: (在输出端并联0.1uF 独石电容和10uF电解电容, 并且示波器采用20MHz波段测试。) Output voltage Ripple and Noise:(0.1uF Ceramic Cap and 50 V 10uF Aluminum Cap.Paralleled between the end of output cable,BW=20MHz)	Vin 230Vac/Full Load	$\leq 1200\text{mVp-p}$

 无锡三石电子有限公司 WUXI SANS ELECTRONIC CO.,LTD.		品号: BZ87X2J3
		版本: A/0 日期: 2018-7-4
2.5 充电器最低充电电压Minimum battery charge voltage	电池在长时间放电后, 到达某一点后会自动保护关闭输出, 该点就是最低充电电压点。Battery discharge in a long time after the arrival of an automatic protection that will shut down output, the point is the minimum charge voltage point	15±2V
2.6 保持恒流充电最低电压Maintain constant current charging a minimum voltage	电池在由恒流转入恒压时的电压点, 通常由充电补偿和输出线的规格有关。By the constant current into the battery when the voltage at constant pressure, usually by the charge compensation and the relevant specifications of the output line	≥28V
2.7 低电压下小电流恒流充电A low voltage, low current constant current charge	在电池组电压较低的情况下才用小电流修复充电In the battery voltage lower case with small current repair charge	15±2V至18V±2V时, 充电电流2.0A±500mA
2.8 正常恒流充电Constant-current charge	电池在最低充电电压至恒流充电最高电压之间, 充电电流能够满足客户规定的电流波动范围称之为恒流充电。Battery charging voltage to the minimum to the maximum voltage between the constant-current charge, the charge current to meet the requirements of current customers range called the constant-current charge.	18V±2V至恒流最高电压时5.0A±0.5A.
2.9 灯转换-红灯转绿灯 Light conversion - red light turn to green	红灯转绿灯表示电池已经充满电, 直观上反映充电的状态。Red light to green light shows battery has been fully charged, such light shows battery charging state directly.	600mA±200mA
2.10 灯转换-绿灯转红灯 Light conversion - green light to red light	直观上反映正在充电的状态。Intuitively reflect the state of charge.	900mA±200mA



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3. 保护特性: Features

序号Serial number	条件说明Conditions	规格Specifications
3.1 过流保护(Over-current protection)	当充电器发生内部或外部故障时, 比如短路或者过载, 充电器进入保护状态。故障排除后, 充电器可恢复正常工作。When internal or external charger failure, such as short circuit or overload, charger will stop working until failures removed	保护, 无损坏。
3.2 短路保护(Short-circuit protection)	当正负极短路, 充电器进入保护状态: 充电器无输出; 并且输入功率 $\leq 5W$ 。故障排除后, 充电器可恢复正常工作。When the positive and negative short-circuit, charger will protect and no charger output and input power $\leq 5W$. Charger rework after failure removed.	保护, 无损坏。
3.3 防倒灌 Anti-intrusion	当充电饱和, 电源线拔掉充电器和电池依然连接时, 电池里电能不会倒灌充电器When charge saturation, unplug the power cord but battery charger is still connected, battery energy will not flow backward into charger.	无倒灌 No intrusion
3.4 温度保护Temperature protection	当充电器内部空间温度高于 $80^{\circ}C$ 时, 停止输出。当充电器内部温度恢复至 $60^{\circ}C$ 继续正常充电。	保护温度 $80^{\circ}C \pm 2^{\circ}C$ 恢复温度 $\leq 55^{\circ}C$

4. 环境特性: Enviromental Features

序号Serial number	条件说明Conditions that	规格Specifications
4.1 绝缘强度(耐压): Dielectric Strength:(pressure-resistance)	AC输入端与二次侧之间打 $3.00KV$, 漏电流 $<10mA$, 测试时间1分钟。批量生产时, $3000Vdc$, 3秒钟。以上测试时, 绝缘电阻均应满足。Between AC input and secondary applied AC $3.00kV$, 1 minute test time, and cut off current shall be less than 10 mA. AC $3.00kV$, test time 3 Sec. for mass production.	无打火, 拉弧, 超漏 (No brand, arc gap, super-leak)



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4.2 绝缘电阻: (Insulation Resistance)	AC输入端与二次测加500Vdc, 测试时间1分钟; 批量生产时, 500Vdc, 3秒钟。以上测试时, 绝缘电 阻均应满足。Between AC input and secondary applied 500Vdc, 1 minute test time. 500Vdc, test time 3 Sec. for mass production.	$\geq 20M\Omega$
4.3 安规要求: Safety requireme	根据客户要求 As per customers' requirements	-----
4.4 温度: Temperature	工作 Operation 储存 Storage	0℃ to +40℃ -20℃ to +55℃
4.5 湿度: Humidity	工作 Operation 储存 Storage	20% ~85% 10%~95%

5.机械性能 Mechanical properties

序号Serial number	条件说明Conditions	规格Specifications
5.1 外壳尺寸: (长度 x 宽度 x 高度) Shell Size (Length x width x Height)	外型尺寸 Overall dimensions	205mm*102mm*52mm
5.2 输入AC插座: AC input socket	\	参阅第十页输入AC线的规格
5.3 输出DC线: DC output line	\	参阅第十页输出DC线的规格
5.4 颜色 Color	\	黑色Black
5.5 外壳 SHELL	\	黑色Black
5.6 DC线DC Line	\	黑色Black

6.安规认证

GS认证	\	\
UL认证	\	\



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7.产品成品图 Finished map products

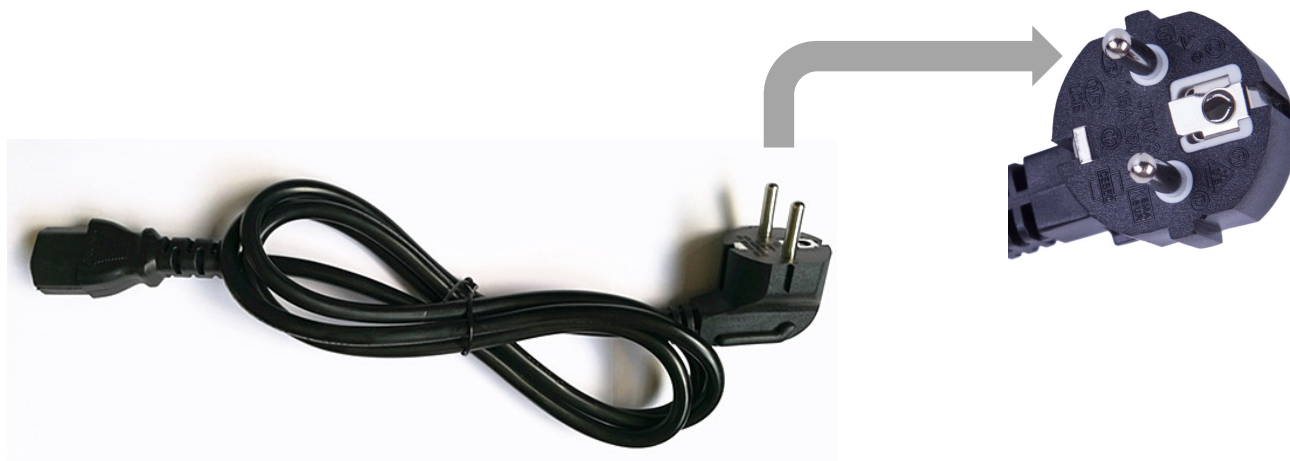
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单位: mm

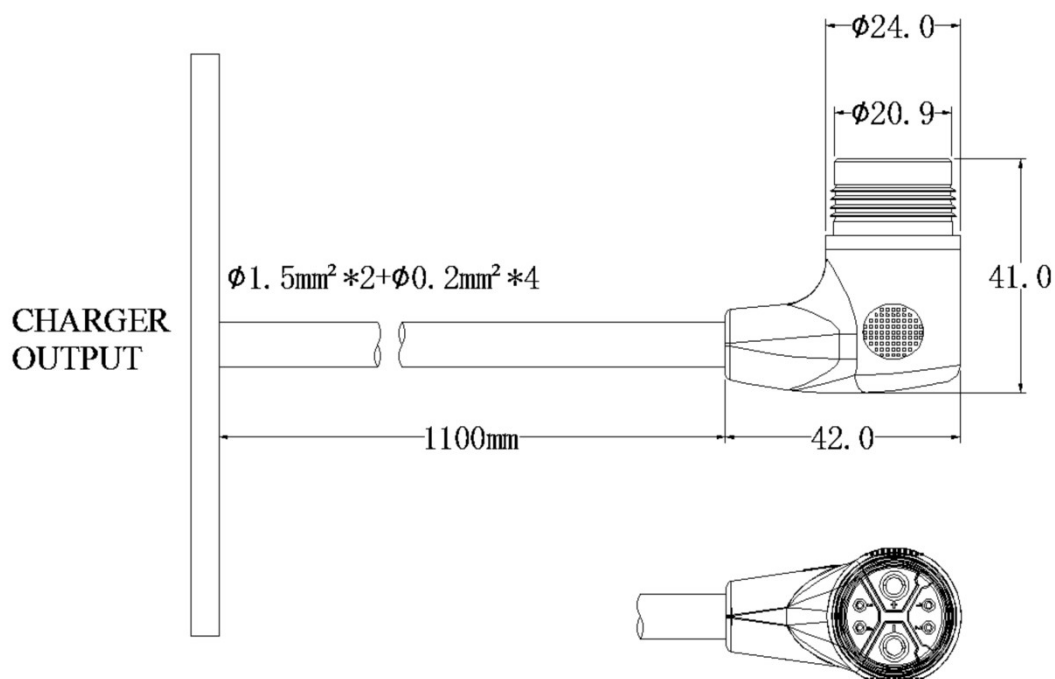


8. 输入AC线的规格 The specifications of the input AC line

规格(SPEC:): 欧规3PIN + 品字尾 3 * 0.75mm² * 1.5M

**9. 输出DC线的规格 The specifications of the output DC line**

单位(unit): mm





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10. 标签 Label

主标签



Battery Charger
MODEL: SSLC300V29
INPUT: AC180V-240V~3.0A
50-60Hz
OUTPUT: 29.4V= 8.0A



CAUTION



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL BEFORE CHARGING READ THE INSTRUCTIONS! FOR INDOOR USE, OR DO NOT EXPOSE TO RAIN

MADE IN CHINA
MANUFACTURER: WUXI SANS ELECTRONIC CO., LTD
ADDRESS: INDUSTRIAL WUYI, DONGGANG TOWN WUXI, JIANGSU, P. R. CHINA



T6. 3A250V



RED: CHARGING
GREEN: CHARGE-FULL OR DISCONNECT





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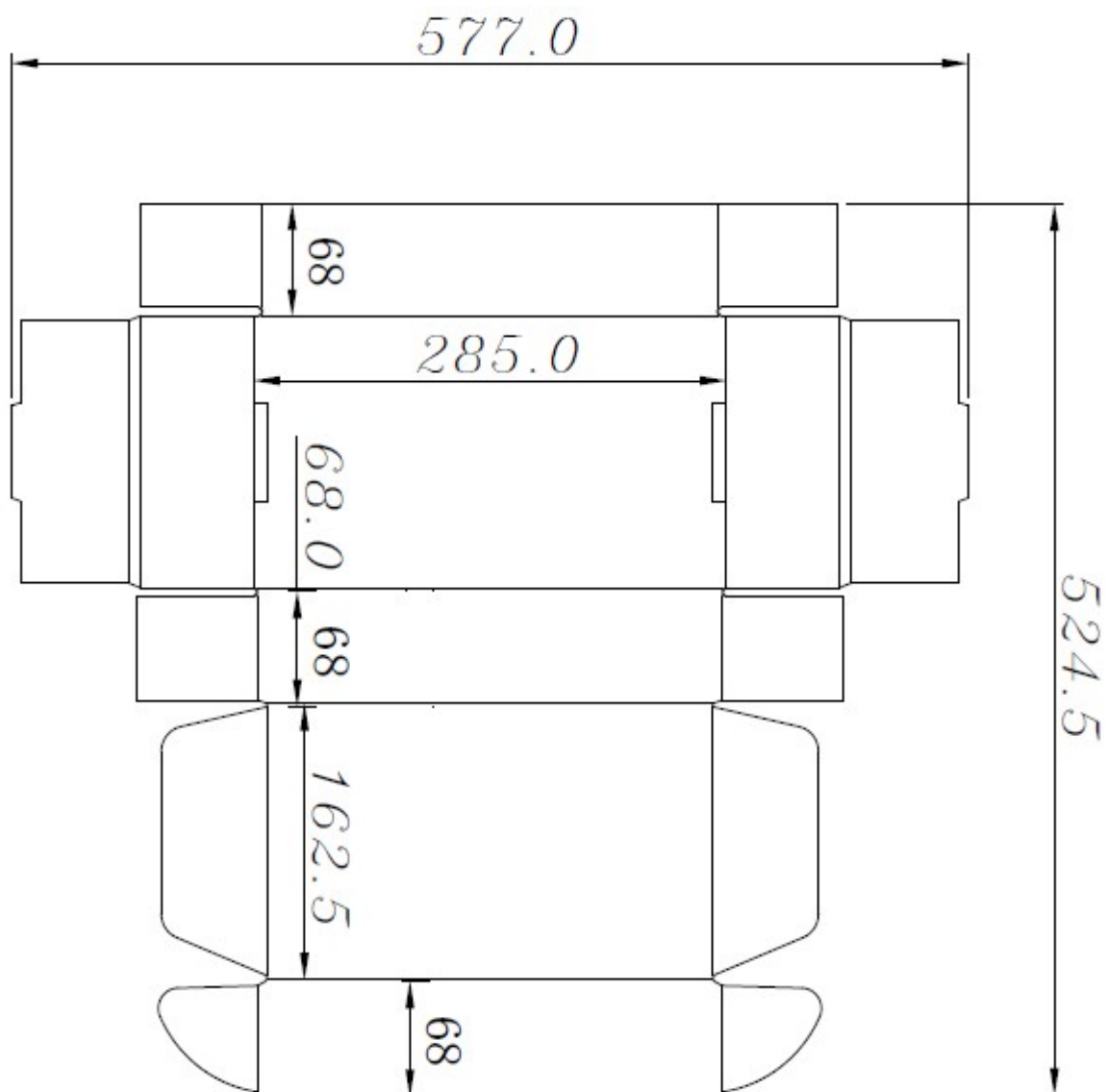
品号: BZ87X2J3

版本: A/0

日期: 2018-7-4

11. 包装盒 Packing Box

材质: 牛皮盒





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12. 说明书 Operation manual

Battery Charger Instructions Manufacturer: Wuxi Sans Electronic Co., Ltd.

1. Important safety instructions

- (1) Save these Instructions – This manual contains important safety and operating instructions for battery charger Models SSLC300V55/SSLC300V29/DZL300SS01/DZL300SS02
- (2) Before using battery charger, read all instructions and cautionary markings on battery charger, battery, and product using battery.
- (3) Caution – To reduce risk of injury, charge only matching type rechargeable batteries. Other types of batteries may burst causing personal injury and damage.

2. Usage

- (1) Connect the connector pin of battery case firstly, and then the alternating current power supply.
- (2) When in charge process, the charging indicator light shows red; after fully charged, the charging indicator light shows green.
- (3) When the batteries are fully charged, (When the Green light is on), unplug the connector pin of alternating current power supply firstly, and then that of battery case.

3. Trouble removal

- (1) The power indicator light (Green Light) does not illuminate.
A. Check whether there is alternating current power supply.
B. Check whether the connection is bad at the input interface.
When you eliminate the conditions above, please ask for help from the manufacturers; do not attempt to repair it by yourself.
- (2) The charging indicator light (Red Light) is not work.
A. check whether the output connector is well connected.
B. check whether the battery can be used.
When you eliminate the conditions above, please ask for help from the manufacturers; do not attempt to repair it by yourself.
- (3) The charging indicator light is always red.
A. See whether the battery is damaged.
When you eliminate the conditions above, please ask for help from the manufacturers; do not attempt to repair it by yourself.

4. Attention

- (1) There is high voltage inside the charger. Do not attempt to open it.
- (2) The charger is designed for indoor use only.
- (3) Do not attempt to recharge any non-rechargeable batteries.
- (4) Contact the manufacturers or retail dealers if there are any problems.
- (5) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- (6) Children should be supervised to ensure that they do not play with the appliance.
- (7) Important safety instructions – save these instructions
- (8) Danger – to reduce the risk of fire or electric shock, carefully follow these instructions
- (9) If the shape of the plug does not fit the power outlet, use an attachment plug adapter of the proper configuration for the power outlet.
- (10) If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.



电池充电器说明书 制造商: 无锡三石电子有限公司

1. 重要的安全说明

- (1) 本说明书包含型号为 SSLC300V55/SSLC300V29/DZL300SS01/DZL300SS02 的电池充电器的重要安全和操作说明

- (2) 在使用充电器给电池充电之前, 请阅读电池上的所有指示和警示标记。
- (3) 注意-充电器只能给相匹配的电池充电。其他电池的类型可能会爆裂, 造成人身伤害和损害。

2. 使用方法

- (1) 充电时, 先插电池外壳的插头, 再插市电电源插头。
- (2) 正常充电时, 充电指示灯显示红色; 电池充满后, 充电指示灯显示为绿色。
- (3) 充电结束(绿灯亮)时, 先拔出市电电源插头, 然后拔出电池外壳的插头。

3. 故障排除

- (1) 充电器指示灯(绿灯)不亮。
A. 检查是否有交流输入。
B. 检查输入接口是否接触不良。
以上均可能排除的话, 请送厂维修: 勿自行修护。
- (2) 充电指示灯(红灯)不亮。
A. 检查电池充电口是否接好。
B. 检查电池是否损坏。
以上均可能排除的话, 请送厂维修: 勿自行修护。
- (3) 充电指示灯一直显示红色。
A. 检查电池是否损坏。
当你排除以上条件时, 请送厂维修: 勿自行修护。

4. 注意事项

- (1) 充电器内部有高压。不得自行拆卸。
- (2) 本产品仅限室内使用。
- (3) 禁止给不可再充电电池充电。
- (4) 若有任何问题, 请联系厂家或零售商处理。
- (5) 除非有监护人监督或指导, 否则不能让无民事行为能力人(包括儿童)操作。
- (6) 在使用中勿让儿童接触充电器。
- (7) 牢记关于安全使用说明的信息。
- (8) 为了降低火灾或电击的危险, 严格按照使用说明操作。
- (9) 如果插头的形状与电源插座不匹配, 应立即更换相匹配的连接插头。

(10) 如果电源线损坏, 为了避免危险, 必须由制造商、其服务代理或类似部门的专业人员更换。
不得将本充电器作为未分类的城市垃圾处理, 要采用单独的收集设施。请联系当地政府了解有关收集的系统信息。
如果在垃圾填埋场或垃圾场处理电器, 有害物质会渗入地下水, 进入食物链, 损害你的健康和幸福。

