

## Approval Sheet

### 聚合物锂离子电池规格承认书

型号 Model: PL 13450

样品数量 NO.OF SAMPLES:

容量 Cap : 650 mAh

送样日期 DATE OF SENDING SAMPLE:

版本 REV : A1

客户代码 CUSTOMER CODE:

| 电芯制定人<br>Cell Prepared by                                                           | 包装制定人<br>Pack Prepared by                                                           | 审核人<br>Checked by                                                                    | 批准人<br>Approved by                                                                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |

客户名 CUSTOMER NAME :

业务员 THE SALESMAN : 黄古浩

| 客户确认<br>CUSTOMER APPROVAL                                                           | 签章<br>STAMP                                                                          |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |

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Product Modified Record List

产品变更履历表

| Revision<br>版本 | Date<br>日期 | Mark<br>标记 | Modified content<br>变更内容 | Prepared by<br>制定人 |
|----------------|------------|------------|--------------------------|--------------------|
| A1             | 2024/7/4   |            | 首版发行                     | 金留杰                |
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1 适用范围 Scope

仅适用于江西省倍特力新能源有限责任公司生产的可充电锂离子电池或电池组, 包括锂离子电池电芯和保护组件。

This document describes the product specification of lithium ion polymer battery or module which includes cell and protection devices supplied by Jiangxi BetterPower new energy limited liability company.

2 电池组成 Battery Constitution

| 序号<br>No. | 名称<br>Name                    | 型号<br>Model                 | 备注<br>Remark |
|-----------|-------------------------------|-----------------------------|--------------|
| 1         | 1 支锂离子电池<br>One piece of cell | 倍特力聚合物电芯<br>PL 13450-650mAh | 纯钴体系         |

3 主要技术参数 Specification

| 序号<br>NO. | 项目<br>Items                           | 标准<br>Criteria | 备注<br>Remarks                                                           |
|-----------|---------------------------------------|----------------|-------------------------------------------------------------------------|
| 1         | 标称容量<br>Nominal capacity              | 650mAh         | 1.0C 充电和 3A 放电至终止电压<br>1.0C charge and 3A discharge for cut-off voltage |
|           | 最小容量<br>Minimum Capacity              | 630mAh         |                                                                         |
| 2         | Energy 能量                             | 2.41Wh         |                                                                         |
| 3         | 标称电压<br>Nominal Voltage               | 3.70V          |                                                                         |
| 4         | 出货电压<br>Shipment voltage              | 4.05-4.15V     | 出厂时的电压<br>As of shipment                                                |
| 5         | 内阻<br>Internal Impedance              | ≤60mΩ          | AC 1KHz 测试<br>AC 1KHz                                                   |
| 6         | 单支电池重量<br>Single battery weight       | 约 13g          |                                                                         |
| 7         | 充电限制电压<br>Limited charge Voltage      | 4.20V          |                                                                         |
| 8         | 放电限制电压<br>Cut-off Voltage             | 3.00V          |                                                                         |
| 9         | 标准充电电流<br>Standard charge current     | 130mA          |                                                                         |
| 10        | 最大充电电流<br>Max charge current          | 650mA          |                                                                         |
| 11        | 标准放电电流<br>Standard dis-charge current | 130mA          |                                                                         |

|    |                                                |            |                            |
|----|------------------------------------------------|------------|----------------------------|
| 12 | 最大持续放电电流<br>Max Continuous discharging current | 5.0A       |                            |
| 13 | 工作温度<br>Operating Temperature                  | 0℃~+45℃    | 充电<br>Charging             |
|    |                                                | 0℃~+60℃    | 放电<br>Discharging          |
| 14 | 贮存温度<br>Storage Temperature                    | 40℃~+45℃   | 小于一个星期<br>Less than 1 week |
|    |                                                | 25℃~+40℃   | 小于一个月<br>Less than 1 month |
|    |                                                | -20℃~ +25℃ | 小于 1 年<br>Less than 1 year |
| 15 | 长期储存电压<br>Long time Storage Voltage            | 3.7-3.95V  |                            |
| 16 | 储存湿度<br>Storage Humidity                       | 60%±20%    |                            |

## 4 产品性能 Product Performance

### 4.1 产品的常规性能 Product General Performance

| 序号<br>No. | 项目<br>Items                     | 测试条件<br>Test Method and Condition                                                                                                                                                                                                                                                                                                                                                                          | 标准<br>Criteria                                                                                                     |
|-----------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 1         | 标准充电模式<br>Standard Charge       | 0.2C 恒流充电至 4.2V，然后恒压充电至 0.02C<br>Charge to 4.2V at constant current 0.2C, then constant voltage charge to taper current 0.02C                                                                                                                                                                                                                                                                              | 总充电时间不超过 6.5 小时，其中在 25±2℃ 环境下充电；<br>Constant voltage 4.2V for 6.5hours in all at 25±2℃.                            |
| 2         | 循环寿命<br>Cycle Life              | (1) 充电过程: 1.0C;<br>(2) 放电过程: 1.0C。<br>重复以上步骤 300 次。<br>Charge: 1.0C charge model<br>Discharge: 1.0C discharge model<br>Repeat the procedures below 300 cycles                                                                                                                                                                                                                                              | 300 次循环后放电容量大于等于第一次放电容量的 80%, Residual capacity ≥ 80% after 300 cycles vs. Discharge capacity of first cycle Cell. |
| 3         | 贮存性能<br>Storage Characteristics | 将电池或电池组按标准充电模式充电后，开路放置在 23±2℃ 环境温度下 28 天后。测试 0.2C 放电容量（保持容量），再测试 0.2C 放电循环 3 次的最大容量（恢复容量）<br>The cell or battery charged with standard charge mode, Open circuit stored in 20±5℃ for 28 days. Discharged with standard discharge mode.<br>The Capacity on 0.2C discharge shall be measured after standard charge and then storage. (Remaining capacity). Testing max capacity with 0.2C discharge in three | 容量保持 ≥ 85%<br>容量恢复 ≥ 90%<br>Remaining capacity ≥ 85%<br>Recovery capacity ≥ 90%                                    |

|  |  |                                        |  |
|--|--|----------------------------------------|--|
|  |  | consecutive cycles.(Recovery capacity) |  |
|--|--|----------------------------------------|--|

## 4.2 安全性能测试 Safety Performance Testing

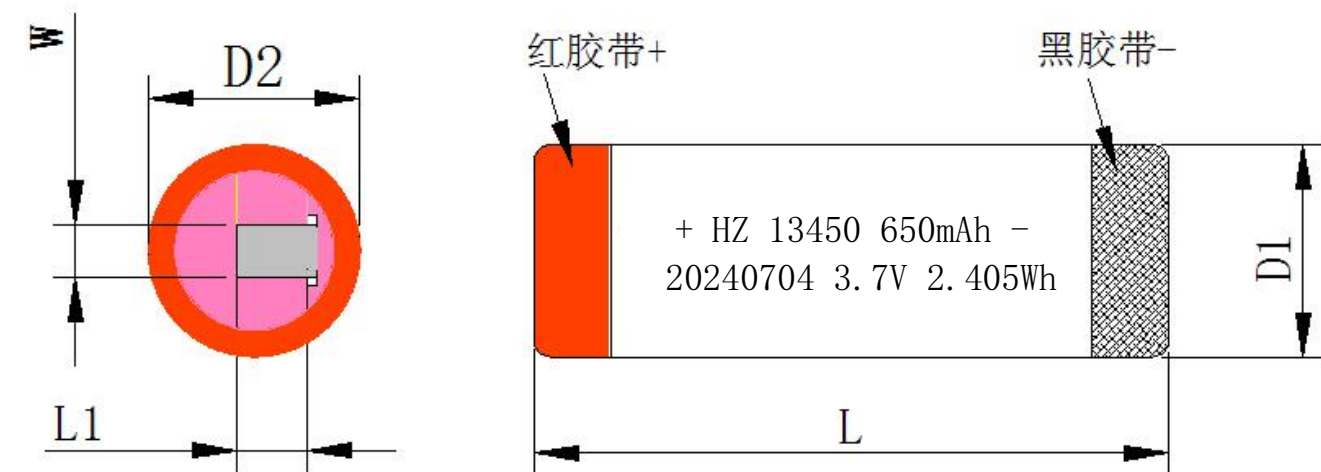
| 序号<br>No. | 项目<br>Items                       | 测试条件<br>Testing condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 标准<br>Criteria                               |
|-----------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1         | 过充电测试<br>Overcharge testing       | 用最大充电电流恒流充电至 4.6V，然后以 4.6V 恒压充电 7h 或电池温度下降值达到最大值的 20%。<br>Charge to a constant current of 4.6V with the maximum charging current, and then charge at a constant voltage of 4.6V for 7 hours or until the battery temperature drops by 20% of the maximum value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 不起火，不爆炸<br>No fire, no explode               |
| 2         | 强制放电测试<br>Forced Discharging Test | 以 0.2C 放电至 3.0V 以后，以 1.0C 电流反向充电 90min<br>After 0.2C discharge to 3.0V, then 1.0C reverse charge 90min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 不起火，不爆炸<br>No fire, no explode               |
| 3         | 挤压测试<br>Crush Test                | 电芯标准充电后，将电芯放在两个平面间承受挤压，挤压的压力由一个直径为 32mm 活塞的液压油缸提供，挤压将一直持续到液压油缸的压强读数达到 17.2Mpa，此时的压力为 13 kN，一旦这个最大压力达到，马上卸压；圆柱型或方型电芯受挤压时其长轴应平行于挤压装置的平面，每个电芯只在一个方向上承受挤压，每次挤压使用不同的电芯。<br>After standard charge, A cell is to be crushed between two flat surfaces, the force for the crushing is to be applied by a hydraulic ram with a 32 mm diameter piston, the crushing is to be continued until a pressure reading of 17.2 MPa is reached on the hydraulic ram, applied force of 13 kN, once the maximum pressure has been obtained it is to be released, A cylindrical or prismatic cell is to be crushed with its longitudinal axis parallel to the flat surfaces of the crushing apparatus, each cell is to be subjected to a crushing force in only one direction, separate cells are to be used for each test. | 不起火、不爆炸<br>No fire, and no explosion.        |
| 4         | 跌落测试<br>Drop Test                 | 电池完全充电后从 1200mm 高度由 X, Y, Z 正负 6 个方向自由跌落到置于水泥地面上 18mm-20mm 的厚木板上,每个方向跌落 1 次,最后用 0.5C 进行充放循环 3 次。<br>Battery is dropped from a height of 1.2 meters 6 times at six angles (X, Y, Z plus positive, negative) to concrete ground, then cycle three times at 0.5C current.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 不起火，不爆炸，不冒烟<br>No fire, no explode, no smoke |

|   |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                  |
|---|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | 振动测试<br>Vibration Test                                    | <p>充满电电池按 X、Y、Z 三个方向，每个方向上从 10HZ~55HZ 的频率循环扫描振动 90min 振动频率 10HZ~50HZ 位移幅值（单振幅 0.8mm）。</p> <p>After standard charging, fixed the capacitor to vibration table and subjected to vibration cycling that the frequency is to be varied at the rate of 1Hz per minute between 10Hz and 55Hz, the excursion of the vibration is 1.6mm. The capacitor shall be vibrated for 30 minutes per axis of XYZ axes.</p> | <p>不起火，不爆炸，不冒烟</p> <p>No fire, no explode, no smoke</p>                                                                                          |
| 6 | 恒定湿热<br>Constant Humidity and Temperature Characteristics | <p>将电池放入 40℃±2℃ 及相对湿度为 90~95% 的恒温恒湿箱中 48 小时后，再以 1.0C 电流放电至 3.0V。</p> <p>After put the battery in the constant humid and hot box of 40℃± 2℃ and relative humidity of 90~95% for 48 hours, and with discharging current 1.0C till 3.0V cut off voltage.</p>                                                                                                                                                 | <p>无冒烟、爆炸、腐蚀，放电容量不低于初始容量 60%</p> <p>No smoke, no explosion, no corrosion, the residual capacity is not less than 60% of the initial capacity</p> |

## 4.3 环境性能测试 Environment Performance Testing

| 序号<br>No. | 项目<br>Items                                  | 测试条件<br>Testing condition                                                                                                                                                                                  | 标准<br>Criteria                                                                                                                                     |
|-----------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1         | 电池温度性能<br>Temperature Performance of Battery | <p>充电过程：标准充电模式。</p> <p>放电过程：分别在 -10℃，0℃ 和 55℃ 温度下以 0.2C 恒流放电至 3.0V。</p> <p>Charge: Standard charge model</p> <p>Discharge: Discharge to 3.0V at 0.2C constant current at -10℃, 0℃ and 55℃ respectively</p> | <p>-10℃ 下，容量 ≥ 60%</p> <p>0℃ 下，容量 ≥ 80%</p> <p>55℃ 下，容量 ≥ 95%</p> <p>-10℃, capacity ≥ 60%</p> <p>0℃, capacity ≥ 80%</p> <p>55℃, Capacity ≥ 95%</p> |

5 电芯图 （单位：mm） Cell drawing （mm）



备注：第二排 20240704 是日期码，代表 2024 年 7 月 4 日，日期码随实际生产日变化。

| 标识<br>Item | 描述<br>Description  | 尺寸规格<br>Dimension and specification |
|------------|--------------------|-------------------------------------|
| D1         | Diameter           | 12.5-13.2 毫米<br>12.5-13.2mm         |
| L          | 长度<br>Length       | 44.0-45.5 毫米<br>44.0-45.5mm         |
| W          | 极耳宽度<br>Tab width  | 3.0±0.2 毫米<br>3.0±0.2mm             |
| L1         | 极耳长度<br>Tab length | 4±2 毫米<br>4±2mm                     |
| 备注         |                    |                                     |

6 贮存及其它事项 Storage and Others

6.1 长期贮存 Long Time Storage

长期贮存的电池（超过 3 个月）需对电池进行充放电一次，置于干燥、凉爽处。贮存电压为 3.70~3.95V。储存温度（-10-30℃）和湿度（60±20%RH）。

If stored for a long time(exceed three months), Need charge and discharge battery one time, the cell should be stored in drying and cooling place. The cell's storage voltage should be 3.70~3.95V .Storage temperature （ -10-30℃ ） and moisture （ 60±20%RH ） .

6.2 其它事项 Others

任何本说明书中未提及的事项，须经双方协商确定。

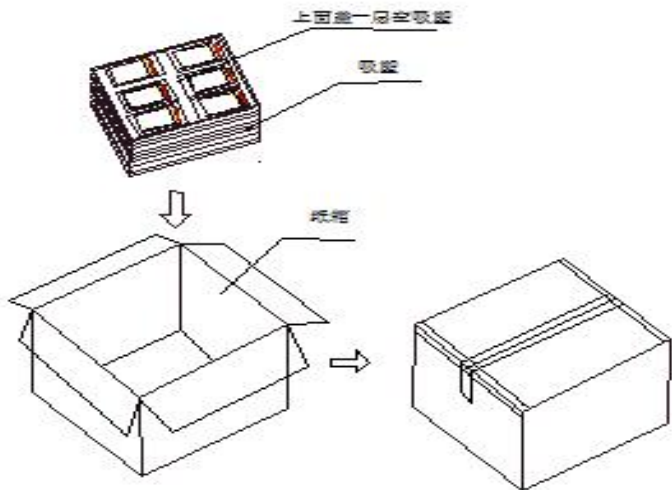
Any matters that this specification does not cover should be conferred between the customer and BPI.

6.3 保质期限 Shelf life

保质期是从出厂日期(喷码)开始起十二个月。

Shelf life starts from the manufacture date (printing) within twelve months

7 包装示意图 Packaging schematic diagram



| NO | 项目 Item                           | 描述 Description                      | 备注 Remark |
|----|-----------------------------------|-------------------------------------|-----------|
| 1  | 包装方式 Packing style                | 外箱+吸塑盒<br>Carton& Plastic tray      |           |
| 2  | 包装箱外尺寸<br>Outside size of the box | 290*235*190                         | 尺寸仅供参考    |
| 3  | 重量 Weight                         | ≤10Kg                               |           |
| 4  | 封箱方式<br>Carton Sealing method     | 透明封箱胶带<br>Transparent adhesive tape |           |

## 附录 Appendix

### 聚合物锂离子充电电池操作指示及注意事项

#### Handling Precautions and Guideline

#### For LIP (Lithium-Ion Polymer) Rechargeable Batteries

#### 前言 Preface

本档“聚合物锂离子充电电池操作指示及注意事项”仅适用于江西省倍特力新能源有限责任公司的电池。

This document of 'Handling Precautions and Guideline LIP Rechargeable Batteries' shall be applied to the battery cells manufactured by Jiangxi BetterPower new energy limited liability company.

#### 声明 Note

以上所有测试的产品需为出货后 7 天内未使用过的新鲜电池；除非其它特殊要求，本产品规格书规定的测试条件为：温度  $25\pm 2^{\circ}\text{C}$ ，相对湿度  $60\pm 20\%\text{RH}$ 。

Testing product should be fresh unused within 7 days after shipment; Unless otherwise defined, test and measurement shall be done under temperature of  $25\pm 2^{\circ}\text{C}$  and relative humidity of  $60\pm 20\%\text{RH}$ .

本产品为江西省倍特力新能源有限责任公司为贵司专项定制开发。双方签订购销合同后，贵司承诺按照合同约定履行付款和提货义务。如违反合同约定拒绝按时付款和提货，贵司承担本产品所有开发费用及相关违约责任。

This product is specially customized and developed by BetterPower new energy limited liability company. for your company. After both parties sign the purchase and sales contract, your company promises to fulfill the payment and delivery obligations as stipulated in the contract. If you refuse to make payment and pick up the goods on time in violation of the contract, your company shall bear all development costs and related breach of contract responsibilities for this product.

### 1 充电 Charging

#### 1.1 充电电流 Charging current

充电电流不得超过本规格书中规定的最大充电电流。使用高于推荐值电流充电将可能引起电芯的充放电性能、机械性能和安全性能的问题，并可能会导致发热或泄漏。

Charging current should be less than maximum charge current specified in the Product Specification. Charging with higher current than recommended value may cause damage to cell electrical, mechanical, and safety performance and could lead to heat generation or leakage.

#### 1.2 充电电压 Charging voltage

充电电压不得超过本规格书刊号中规定的额定电压。充电器的设计应满足此条件。电池电压高于额定电压值时，将可能引起电芯的充放电性能、机械性能和安全性能的问题，可能会导致发热或泄漏。

Charging shall be done by voltage less than that specified in the Product Specification, which is the absolute maximum voltage, must be strictly prohibited. The charger shall be designed to comply with this condition. It is very dangerous that charging with higher voltage than maximum voltage may cause damage to the cell electrical, mechanical safety performance and could lead to heat generation or leakage.

#### 1.3 充电温度 Charging temperature

电池必须在  $0^{\circ}\text{C}\sim 45^{\circ}\text{C}$  的环境温度范围内进行充电。

The cell shall be charged within  $0^{\circ}\text{C}\sim 45^{\circ}\text{C}$  range in the Product Specification.

## 1.4 禁止反向充电 Prohibition of reverse charging

正确连接电池的正负极，严禁反向充电。若电池正负极接反，将无法对电芯进行充电。同时，反向充电会降低电芯的充放电性能、安全性，并会导致发热、泄漏。

Reverse charging is prohibited. The cell shall be connected correctly. The polarity has to be confirmed before wiring. In case of the cell is connected improperly, the cell cannot be charged. Simultaneously, the reverse charging may cause damaging to the cell which may lead to degradation of cell performance and damage the cell safety, and could cause heat generation or leakage.

## 2 放电 Discharging

### 2.1 放电电流 Discharging current

放电电流不得超过本规格书规定的最大放电电流，大电流放电会导致电芯容量剧减并导致过热。

The cell shall be discharged at less than the maximum discharge current specified in the Product Specification. High discharging current may reduce the discharging capacity significantly or cause over-heat.

### 2.2 放电温度 Discharging temperature

电池必须在 0°C~60 °C 的环境温度范围内进行放电。

The cell shall be discharged within 0°C~60 °C range specified in the Product Specification.

### 2.3 过放电 Over-discharging

需要注意的是，在电池长期未使用期间，它可能会用其自放电特性而处于某种过放电状态。为防止过放电的发生，电池应定期充电，将其电压维持在 3.70V 至 3.95V 之间。

It should be noted that the cell would be at an over-discharged state by its self-discharge characteristics in case the cell is not used for long time. In order to prevent over-discharging, the cell shall be charged periodically to maintain between 3.70V and 3.95V.

过放电会导致电芯性能、电池功能的丧失。

Over-discharging may causes loss of cell performance, characteristics, or battery functions.

## 3 保护电路模块 Protection Circuit Module

电芯/电池包装应配有 PCM 以正确保护电芯/电池。PCM 应具有以下功能以保证安全并防止损坏电池性能：(1) 过充保护功能；(2) 过放保护功能；(3) 过流保护

The cell/battery pack shall be with a PCM that can protect cell/battery pack properly. PCM shall have functions of (1) overcharging prevention ,(2) over-discharging prevention,(3) over current prevention to maintain safety and Prevent significant deterioration of cell performance. The over current can occur by external short circuit

## 4 电池的注意事项 Handling Instructions

认真阅读下面的注意事项，确保正确使用聚合物锂离子电池。倍特力对违反下述注意事项而产生的任何问题不予负责。

Read and observe the following warnings and precautions to ensure correct and safe use of Li-ion batteries.

## 危险! Danger!

### 安全警示及使用说明 Caution and Guideline

使用前应先阅读产品规格书以及安全警示，确保正确使用电池并确保电池使用过程中的安全。  
Before using battery, please read specification and safety caution, insure proper application and safety.

#### 安全警示 Caution

下面的操作可能导致电池泄漏，发热甚至燃烧：

Failing in following items can cause leakage, heat even fire:

禁止反向充电！

Prohibition of reverse charge of battery.

禁止过充电！

Prohibition of overcharge of battery.

禁止过放电！

Prohibition of over-discharge of battery.

禁止正负极短路！

Prohibition of short circuit of positive and negative of battery.

请使用指定的充电器充电！

Please charge by specified charger.

请不要撞击，敲打，钉刺或拆卸电池！

Don't knock, beat, nail or disassemble battery.

请保持电芯远离热源，禁止将电芯扔入火中！

Please keep away from fire or other heating sources and prohibition of dumping of battery into fire.

电池浸水后禁止使用！

Don't use after the battery is soaked!

#### 使用说明 Guideline

如果电解液接触到皮肤或眼睛，请立刻用清水冲洗接触的区域并寻求医生的建议！

If electrolyte comes into contact with the skin or eyes where shall flush the electrolyte immediately with fresh water and physicians' advice is to be sought.

请不要在规定的范围外使用或储存电池，否则将削弱电池的性能，缩短电池的寿命，甚至导致电池发热，起火或爆炸！

Don't use or storage battery under the circumstance beyond specified, unless will weaken battery performance and shorten battery life-span, even will cause heating, fire or explosion.

使用前请确保电池在质量保证期内。

Please insure battery in quality guarantee duration before using.

请不要使电池的封口边缘与金属直接接触。

Please don't make the battery side edge of direct contact with the metal.

将小电池和电池放在儿童接触不到的地方

Keep small cells and batteries which are considered swallowable out of the reach of children.

吞咽可能导致烧伤、软组织穿孔和死亡。在摄入 2 小时内可能发生严重烧伤

Swallowing may lead to burns, perforation of soft tissue, and death. Severe burns can occur within 2 h of ingestion.

如误食电池或电池，应立即求医。

In case of ingestion of a cell or battery, seek medical assistance promptly.