

Approval Sheet  
聚合物锂离子电池规格承认书

型号 Model: PL 902030 2P 样品数量 NO.OF SAMPLES:

容量 Cap : 1000 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 |
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客户名 CUSTOMER NAME :

业务员 THE SALESMAN : 李程

|                           |             |
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Product Modified Record List

产品变更履历表

| Revision<br>版本 | Date(YY-MM-DD)<br>日期(年-月-日) | Mark<br>标记 | Modified content<br>变更内容 | Prepared by<br>制定人 |
|----------------|-----------------------------|------------|--------------------------|--------------------|
| A1             | 2023/03/20                  |            | First issue<br>首版发行      | 周全勇                |
|                |                             |            |                          |                    |
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## 1. 适用范围 Scope

仅适用于江西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 Better Power 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         | 2 支锂离子电芯<br>Two piece of cell             | 倍特力聚合物电池<br>PL902030S-500mAh     |              |
| 2         | 1 个电池保护板<br>One piece of protection board | IC: S8261DAI<br>MOSFET: EC8205   |              |
| 3         | 导线(ZH-3P 反向/黑空红)<br>Lead wire             | 线型 UL3302-26#<br>Wire UL3302-26# |              |

## 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                       | 1000mAh                       | 0.2C 充放电至终止电压<br>0.2C charge and discharge for cut-off voltage |
|           | 最小容量<br>Minimum Capacity                       | 1000mAh                       |                                                                |
| 2         | 能量<br>Energy                                   | 3.70Wh                        |                                                                |
| 3         | 标称电压<br>Nominal Voltage                        | 3.7V                          |                                                                |
| 4         | 出货电压<br>Shipment voltage                       | 3.85-3.95V                    |                                                                |
| 5         | 内阻<br>Internal Impedance                       | Pack $\leq 180\text{m}\Omega$ | 标准充电后 AC 1KHz 测试<br>AC 1KHz after standard charge              |
| 6         | 单支电池重量<br>Single battery weight                | 约 18g                         |                                                                |
| 7         | 充电限制电压<br>Limited charge Voltage               | 4.20V                         |                                                                |
| 8         | 放电限制电压<br>Cut-off Voltage                      | 3.0V                          |                                                                |
| 9         | 标准充电电流<br>Standard charge current              | 200mA                         |                                                                |
| 10        | 最大充电电流<br>Max charge current                   | 1000mA                        |                                                                |
| 11        | 标准放电电流<br>Standard discharge current           | 200mA                         |                                                                |
| 12        | 最大持续放电电流<br>Max Continuous discharging current | 1000mA                        |                                                                |

|    |                               |             |                                |
|----|-------------------------------|-------------|--------------------------------|
| 14 | 工作温度<br>Operating Temperature | 0℃~+20℃     | 最大充电 0.2C<br>Max Charging 0.2C |
|    |                               | 20℃~+45℃    | 最大充电 1.0C<br>Max Charging 1.0C |
|    |                               | -10℃~+55℃   | 放电<br>Discharging              |
| 15 | 贮存温度<br>Storage Temperature   | -20℃ / +40℃ | 小于 1 星期<br>Less than 1 week    |
|    |                               | -20℃ / +35℃ | 小于 1 个月<br>Less than 1 month   |
|    |                               | -20℃ / +30℃ | 小于 1 年<br>Less than 1 year     |
| 15 | 储存电压<br>Storage Voltage       | 3.7-3.95V   |                                |

## 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 20±2℃ 环境下充电；<br>Constant voltage 4.2V for 6.5hours in all at 20±2℃.                                                                                                                                                                  |
| 2         | 0.2ItA 放电性能<br>0.2ItA discharging Performance | 将电池或电池组按标准充电模式充好电后，搁置 0.5~1h，再以标准放电模式进行放电。<br>The cell or battery charged with standard charge mode, deposit 0.5~1h, then discharged with standard discharge mode.                      | The discharge time is required ≥5h. The above test cycle can be repeated five times, Once is qualified to meet the requirements. 放电时间应 ≥5h。上述测试可以重复循环 5 次，当有一次符合要求即为合格。                                                                                  |
| 3         | 循环寿命<br>Cycle Life                            | (1) 充电过程: 0.5C;<br>(2) 放电过程: 0.5C。<br>重复以上步骤 300 次。<br>Charge: 0.5C charge model<br>Discharge: 0.5C 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%，厚度膨胀 ≤8%<br>Residual capacity ≥80% after 300 cycles vs. Discharge capacity of first cycle Cell. The thickness expansion is less than or equal the first thickness, 8%                                                       |
| 4         | 荷电保持能力<br>Charged Storage Characteristics     | 将电池或电池组按标准充电模式充电后，开路放置在 20±5℃ 环境温度下 28 天后。<br>The cell or battery charged with standard charge mode, Open circuit stored in 20±5℃ for 28 days. Discharged with standard discharge mode. | 以标准放电模式进行放电，放电时间应不低于 4.25 小时，再次以标准充电模式充电后以标准放电模式放电，放电时间应不低于 4.5 小时。<br>Discharge time should not be less than 4.25h. Then charged with Standard Charge mode, Discharged with standard discharge mode again. Discharge time should not be less than 4.5h. |

## 4.2 安全性能测试 Safety Performance Testing

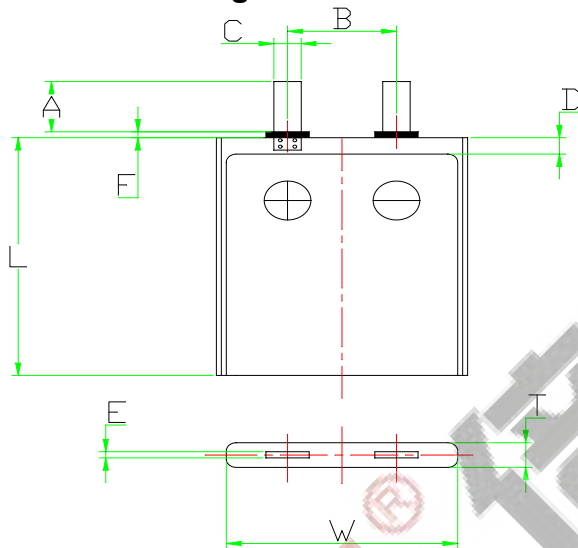
| 序号<br>No. | 项目<br>Items                     | 测试条件<br>Testing condition                                                                                                             | 标准<br>Criteria                                                |
|-----------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 1         | 过充电测试<br>Overcharge testing     | 充满电的电池外接 3C/4.6V 的电源给电池持续加载 2 小时<br>3C/4.6V DC power supply charge 2hrs after fully charge                                            | 不起火,不爆炸,不冒烟或漏液<br>No fire, no explode, no smoke or no leakage |
| 2         | 短路测试<br>Short-circuit testing   | 标准充电后, 用小于 0.1Ω导线短路电池 1 小时, 然后断开导线<br>After standard charging, short-circuit the battery with 0.1Ωwire for 1 hour then open the wire. | 不爆炸,不起火,不冒烟<br>No Explosion, No Fire, No Smoking,             |
| 3         | 过放电测试<br>Over-discharge testing | 将电池放电至终止电压后,以 30Ω负载给电池持续加载 28 小时。<br>Discharge 28hrs through 30Ω resistor after fully charge                                          | 不起火, 不爆炸, 不冒烟<br>No fire, no explode, no smoke                |

## 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         | 45°C/7 天<br>45°C/7 days                      | 充满电电池在 45±2°C 高温箱中搁置 7 天,再放电至终止电压<br>Storage 7 days at 45±2°C oven after fully charge, then discharge to 3.0V at RT                                                                                                                                                                                                                                                                              | 不起火, 不爆炸, 不冒烟<br>No fire, no explode, no smoke or no leakage<br>容量衰减 < 10%, 内阻增加 < 30%<br>Cap loss < 10%, imp increase < 30%     |
| 2         | 电池温度性能<br>Temperature Performance of Battery | 充电过程: 标准充电模式。<br>放电过程: 分别在 -10°C, 0°C 和 55°C 温度下以 0.2C 恒流放电至 3.0V。<br>Charge: Standard charge model<br>Discharge: Discharge to 3.0V at 0.2C constant current at -10°C, 0°C and 55°C respectively                                                                                                                                                                                                 | -10°C 下, 容量 ≥ 70%<br>0°C 下, 容量 ≥ 80%<br>55°C 下, 容量 ≥ 80%<br>-10°C, capacity ≥ 70%<br>0°C, capacity ≥ 80%<br>55°C, Capacity ≥ 80% |
| 3         | 振动测试<br>Vibration Test                       | 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)。<br>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. | 不起火,不爆炸,不冒烟或漏液<br>No fire, no explode, no smoke or no leakage                                                                    |

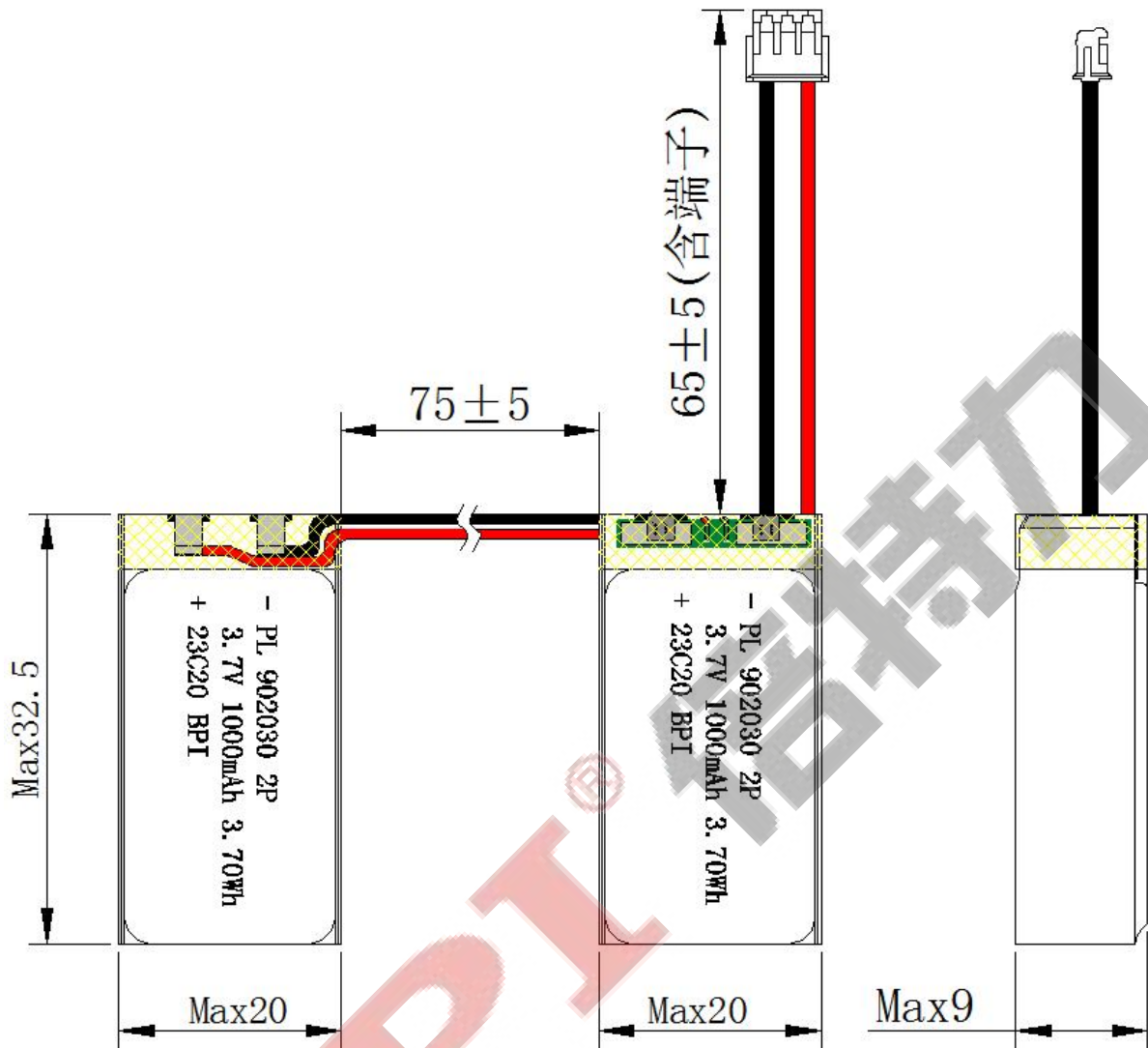
|   |                   |                                                                                                                                                                                                                                                                        |                                                               |
|---|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 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,不冒烟或漏液<br>No fire, no explode, no smoke or no leakage |
|---|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|

5. 电芯图（单位：mm） Cell drawing（mm）



| 标识<br>Item | 描述<br>Description              | 尺寸规格<br>Dimension and specification |
|------------|--------------------------------|-------------------------------------|
| T          | 厚度<br>Thickness                | 最大 9.0 毫米<br>9.0mm Max              |
| W          | 宽度<br>Width                    | 最大 19.8 毫米<br>19.8mm Max            |
| L          | 高度<br>Length                   | 最大 30.0 毫米<br>30.0mm Max            |
| A          | 极耳长度<br>Tab length             | 8.0±2.0 毫米<br>8.0±2.0mm             |
| B          | 极耳中心距<br>Tab center distance   | 5.0±2.0 毫米<br>5.0±2.0mm             |
| C          | 极耳宽度<br>Tab width              | 1.5±0.1 毫米<br>1.5±0.1mm             |
| D          | 顶封位宽度<br>Top sealing width     | 3.0~4.5 毫米<br>3.0~4.5mm             |
| E          | 极耳厚度<br>Tab thickness          | 0.1 毫米<br>0.1mm                     |
| F          | 极耳胶长度<br>Tab rubber length     | 0.2 ~2.0 毫米<br>0.2~2.0mm            |
| /          | 折边方式<br>Side sealing edge mode | 双折边<br>Double fold                  |

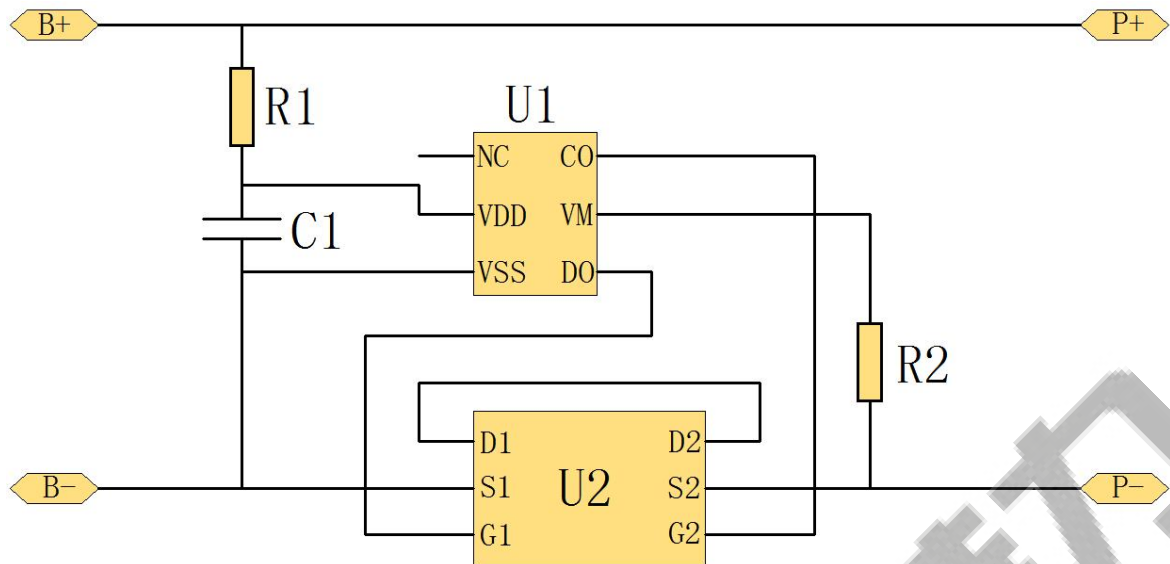
6. 电池尺寸 Battery Drawing



| 项目<br>Items                     | 标准<br>Criteria                                                             |
|---------------------------------|----------------------------------------------------------------------------|
| 电池长度(L1)<br>Battery length (L1) | 最大 32.5 毫米<br>32.5mm Max                                                   |
| 电池宽度(W)<br>Battery width(W)     | 最大 20.0 毫米<br>20.0mm Max                                                   |
| 电池厚度(T)<br>Battery thickness(T) | 最大 9.0 毫米<br>9.0mm Max                                                     |
| 导线(ZH-3P 反向/黑空红)<br>Lead wire   | 线型 UL3302-26# 外露长度(L2): 65±3mm(含端子)<br>Wire UL3302-26# length (L2): 65±3mm |

7. 保护板规格书 PCM specification

7.1 保护板原理图 Protection board principle diagram



7.2 保护板电气性能 Protection board electrical properties

| Protection Parameters /保护参数                                       |                                              |      |       |      |    |
|-------------------------------------------------------------------|----------------------------------------------|------|-------|------|----|
| Over-Charge Voltage Protection (OVP) 过充保护电压                       | 4260                                         | 4280 | 4300  | ±20  | mV |
| Over-Charge Voltage Protection Release 过充保护释放电压                   | 4130                                         | 4180 | 4230  | ±50  | mV |
| Over-Charge Voltage Protection Delay Time 过充保护电压延时                | 700                                          | 1000 | 1300  |      | mS |
| Over-Discharge Voltage Protection (UVP) 过放保护电压                    | 2950                                         | 3000 | 3050  | ±50  | mV |
| Over-Discharge Voltage Protection Release 过放保护释放电压                | 2900                                         | 3000 | 3100  | ±100 | mV |
| Over-Discharge Voltage Protection Delay Time 过放保护电压延时             | 179.2                                        | 256  | 332.8 |      | mS |
| Over-Current Charge Protection Detection Voltage<br>充电过流保护检测电压    | -170                                         | -150 | -130  | ±20  | mV |
| Over-Current Charge Protection (OCC) 充电过流保护                       | 2.0                                          | 3.5  | 6.0   |      | A  |
| Over-Current Charge Protection Delay Time 充电过流保护延时                | 5.6                                          | 8    | 10.4  |      | mS |
| Over-Current Discharge Protection Detection Voltage<br>放电过流保护检测电压 | 170                                          | 180  | 190   | ±10  | mV |
| Over-Current Discharge Protection （OCD）放电过流保护                     | 2.0                                          | 4.5  | 6.0   |      | A  |
| Over-Current Discharge Protection Delay Time 放电过流保护延时             | 11.2                                         | 16   | 20.8  |      | mS |
| Short Circuit Protection Detection Voltage (SCP) 短路保护检测电压         | 500                                          | 600  | 700   |      | mV |
| Short Circuit Protection Delay Time 短路保护延时                        | 196                                          | 280  | 364   |      | uS |
| Short Circuit Protection Release 短路保护释放方式                         | Remove Load Or Connect Charger<br>移除负载或连接充电器 |      |       |      |    |
| Current Consumption 电流消耗                                          |                                              |      |       |      |    |
| Normal Mode 正常工作模式                                                |                                              | 1.5  | 4.0   |      | uA |
| Other Parameters 其他参数                                             |                                              |      |       |      |    |
| Impedance 导通内阻（B-&P-）                                             | 10                                           | 40   | 60    |      | mΩ |
| Impedance 导通内阻（B+&P+）                                             |                                              |      | 30    |      | mΩ |
| 0V Battery Charge Function 0V电池充电功能                               | 允许                                           |      |       |      |    |
| ESD Protection Function ESD静电保护功能                                 | 无                                            |      |       |      |    |

### 7.3 保护板元器件 Protection board component

| Symbol<br>位号 | Material name<br>物料名称 | Specification model<br>规格型号 | PCB footprint<br>封装形式 | Qty<br>数量 | Vender<br>品牌 | Marking<br>丝印 |
|--------------|-----------------------|-----------------------------|-----------------------|-----------|--------------|---------------|
| U1           | IC                    | S8261DAI                    | SOT23-6               | 1         | 艾普凌科         |               |
| U2           | MOS                   | EC8205/ET8205               | SOT23-6               | 1         | 宜源           |               |
| R1           | 贴片电阻                  | 100 Ohm $\pm$ 5%            | 0402                  | 1         | 国巨/华科        |               |
| R2           | 贴片电阻                  | 2K Ohm $\pm$ 5%             | 0402                  | 1         | 国巨/华科        |               |
| C1           | 贴片电容                  | 104/16V $\pm$ 10%           | 0402                  | 1         | 国巨/华科        |               |

### 8. 贮存及其它事项 Storage and Others

#### 8.1 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 3.75~3.95V。储存温度（-10-30℃）和湿度（45%-75%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 3.75~3.95V .Storage temperature （-10-30℃）and moisture （45%-75%RH）

#### 8.2 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

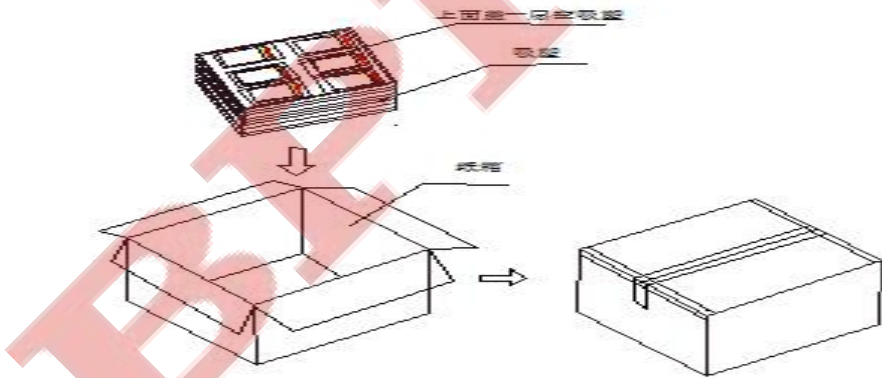
Any matters that this specification does not cover should be conferred between the customer and BPI.

#### 8.3 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

### 9. 包装示意图 Packaging schematic diagram



| 序号<br>No | 项目<br>Item                        | 描述<br>Description              | 备注<br>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                    |              |
| 3        | 重量 Weight                         | ≤10Kg                          |              |
| 4        | 封箱方式                              | 透明封箱胶带                         |              |

|  |                       |                           |  |
|--|-----------------------|---------------------------|--|
|  | Carton Sealing method | 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**

本檔“聚合物锂离子充电电芯操作指示及注意事项”仅适用于 江西倍特力新能源有限责任公司生产电  
池。

This document of 'Handling Precautions and Guideline LIP Rechargeable Batteries' shall be  
applied to the battery cells manufactured by JiangXi Better Power New Energy Co., Ltd.

**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  $23\pm 2^{\circ}\text{C}$ ，相对湿度  $60\pm 20\%$ 。

Testing product should be fresh unused within 7 days after shipment. Unless otherwise defined, test  
and measurement shall be done under temperature of  $23\pm 2^{\circ}\text{C}$  and relative humidity of 40~80%. The test  
results are not affected evidently by such conditions of temperature  $23\pm 2^{\circ}\text{C}$  or humidity  $60\pm 20\%$ .

## 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-10℃~55℃的环境温度范围内进行放电。

The cell shall be discharged within -10℃~60℃ 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 3.75V 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 3.75V 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 over charge 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.

### 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.

如果电池太脏，使用前请清扫它们，否则可能导致其不正常工作。

If batteries are too dirty, please clean them before using. Unless will cause abnormal work of battery.

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.