

MSDS Report

Prepared For : 申请商:	Hubei Chiya New Energy Technology Co., Ltd. 湖北驰亚新能源科技有限公司 Group 3, Erdao Village, yunyang Economic Development Zone, Shiyan City 十堰市郧阳经济开发区二道村三组
Product Name: 产品名称:	Li-ion Battery 锂离子电池
Model 型号:	CY 502030
Nominal Voltage: 标称电压	3.7V
Typical Capacity: 典型容量:	200mAh, 0.74Wh
Weight 重量:	5.4g
Dimension 尺寸 :	30.6mm X 20.3mm X 4.6mm (L×W×T)
Prepared By : 编制单位:	Shenzhen NCT Testing Technology Co., Ltd. 深圳诺测检测技术有限公司 1 / F, No. B Building, Mianshang Younger Pioneer Park, Hangcheng Road, Gushu Xixiang Street, Baoan District, Shenzhen, Guangdong, China 中国广东省深圳市宝安区西乡街道固戍航城大道绵商青年创业园B栋第1层
Report No. 报告编号:	NCT20018466XM1-1

Written by 编写: Vera Li

Approved by 批准: _____

Inspected by 审核: Hely Wang

Date 日期: 2021. 03. 09



UN38.3 检测报告

UN38.3 Test Report

Client 委托方	Hubei Chiya New Energy Technology Co., Ltd. 湖北驰亚新能源科技有限公司
Add. of Client 委托方地址	Group 3, Erdao Village, yunyang Economic Development Zone, Shiyan City 十堰市郧阳经济开发区二道村三组
Samples Description 样品名称	Li-ion Battery 锂离子电池
Model/Type 型号规格	CY 502030
Testing Laboratory 测试机构	Shenzhen NCT Testing Technology Co., Ltd. 深圳诺测检测技术有限公司 1 / F, No. B Building, Mianshang Younger Pioneer Park, Hangcheng Road, Gushu Xixiang Street, Baoan District, Shenzhen, Guangdong, China 中国广东省深圳市宝安区西乡街道固戍航城大道绵商青年创业园B栋第1层 Phone number 电话号码: +86-755-27790922 Email 邮箱: sales@nct-testing.com Website 网址: http://www.nct-testing.cn
Report No. 报告编号	NCT20018466XB1-1
Issued Date 发行日期	2020.05.09
Test Conclusion 测试结论: Shown in the Conclusion of test report. 见检测报告结论页.	

Tested by 主检人: Red Chen.

Approved by 批准人: _____

Inspected by 审核人: Hely Wang

Seal of NCT 报告单位 盖章

Date of Issue 签发日期: 2020.05.09



I、Sample Description 样品描述

Product Name 产品名称	Li-ion Battery 锂离子电池	Sample Model 样品型号	CY 502030		
Manufacturer 制造商	Hubei Chiya New Energy Technology Co., Ltd. 湖北驰亚新能源科技有限公司				
Address 地址	Group 3, Erdao Village, yunyang Economic Development Zone, Shiyan City 十堰市郧阳经济开发区二道村三组				
Factory 工厂	Hubei Chiya New Energy Technology Co., Ltd. 湖北驰亚新能源科技有限公司				
Address 地址	Group 3, Erdao Village, yunyang Economic Development Zone, Shiyan City 十堰市郧阳经济开发区二道村三组				
Manufacturer's contact information 制造商联系信息	Phone number 电话号码	Email address 电子邮箱地址		Website 网址	
	+86-13868575968	641576904@qq.com		---	
Trade Mark 商标	---	Cell Shape 电芯形状	Prismatic 棱柱形	Battery Size 电池尺寸 (L×W×T)	(30.6×20.3×4.6)mm
Nominal Voltage 标称电压	3.7V	Rated Capacity 额定容量	200mAh 0.74Wh	Limited Charge Voltage 充电限制电压	4.2V
Standard Charge Current 标准充电电流	40mA	Maximum Continuous Charge Current 最大持续充电电流	200mA	End Charge Current 结束充电电流	2mA
Cut-off Voltage 放电截止电压	3.0V	Standard Discharge Current 标准放电电流	40mA	Maximum Discharge Current 最大放电电流	200mA
Cell Number 组成电芯数量	1PCS		Cell Model 电芯型号	CY 502030	
Sample Mass 样品重量	5.4g		Sample Physical description 样品物理形态	Silver, Prismatic, Solid 银色, 棱柱形, 固体	
Receiving Date 接收日期	2020.04.16		Completing Date 完成日期	2020.04.30	

II、Standard 标准

UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria" (ST/SG/AC.10/11/Rev.6/Amend.1 Section 38.3)

联合国《关于危险货物运输的建议书 实验和标准手册》第六修订版修正 1 第 38.3 节。

III、Test Item 测试项目

- | | |
|---|---|
| T.1. <input checked="" type="checkbox"/> Altitude simulation 高度模拟 | T.5. <input checked="" type="checkbox"/> External short circuit 外部短路 |
| T.2. <input checked="" type="checkbox"/> Thermal test 温度试验 | T.6. <input type="checkbox"/> Impact 撞击/ <input checked="" type="checkbox"/> Crush 挤压 |
| T.3. <input checked="" type="checkbox"/> Vibration 振动 | T.7. <input checked="" type="checkbox"/> Overcharge 过充电 |
| T.4. <input checked="" type="checkbox"/> Shock 冲击 | T.8. <input checked="" type="checkbox"/> Forced discharge 强制放电 |

IV、Test Method and Requirement 测试方法和要求

Tests T.1 to T.5 shall be conducted in sequence on the same cell or battery. Tests T.6 and T.8 shall be conducted using not otherwise tested cells. Test T.7 may be conducted using undamaged batteries previously used in tests T.1 to T.5 for purposes of testing on cycled batteries.

用相同的电芯或电池按照顺序进行试验 T.1 至 T.5。试验 T.6 至 T.8 用没有进行其他试验的电芯。试验 T7 可以使用原先在试验 T1 至 T5 中使用过的未损坏的电池进行，以便测试交替充电放电的电池。

Single cell batteries of B1#~B5#, B11#~B14# are full charged after one cycle;

Single cell batteries of B6#~B10#, B15#~B18# are full charged after twenty-five cycles;

Rechargeable cells of C1#~C5# are 50% charged after one cycle;

Rechargeable cells of C6#~C10# are 50% charged after twenty-five cycles;

Rechargeable cells of C11#~C20# are full discharged after one cycle;

Rechargeable cells of C21#~C30# are full discharged after twenty-five cycles;

Test environment condition: ambient temperature: 15-25°C, ambient humidity: 40-70%

单电芯电池 B1#~B5#, B11#~B14#为 1 次循环满电状态;

单电芯电池 B6#~B10#, B15#~B18#为 25 次循环满电状态;

可充电电芯 C1#~C5#为 1 次循环后 50%充电状态;

可充电电芯 C6#~C10#为 25 次循环后 50%充电状态;

可充电电芯 C11#~C20#为 1 次循环完全放电状态;

可充电电芯 C21#~C30#为 25 次循环完全放电状态;

试验环境条件: 环境温度: 15-25°C, 环境湿度: 40-70%

In order to quantify the mass loss, the following procedure is provided:

$$\text{Mass loss (\%)} = (M1-M2)/M1 \times 100$$

质量损失的量化值, 可用以下公式计算:

$$\text{质量损失(\%)}=(M1-M2)/M1 \times 100$$

Where M1 is the mass before the test and M2 is the mass after the test. When mass loss does not exceed the values in Table below, it shall be considered as "no mass loss".

式中: M1 是试验前的质量, M2 是试验后的质量。如果质量损失不超过下表所列的数值, 应视为“无质量损失”。

Mass M of cell or battery 电芯或电池的质量	Mass loss limit 质量损失限值
M < 1g	0.5%
1g ≤ M ≤ 75g	0.2%
M > 75g	0.1%

Leakage means the visible escape of electrolyte or other material from a cell or battery or the loss of material (except battery casing, handling devices or labels) from a cell or battery such that the loss of mass exceeds the values in Table above.

渗漏系指可以看到的电解液或者其他物质从电芯或者电池中漏出，或电芯或电池中的物质损失（不包括电池外壳、搬运装置、或标签），失去的质量超过上表所列的数值。

In test T.1 to T.4, cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

在测试 T.1 至 T.4 中，电芯和电池须满足无渗漏、无泄气、无解体、无破裂和无起火，并且每个试验电芯或电池在试验后的开路电压不小于其在进行这一试验前电压的 90%。

T.1. Altitude simulation 高度模拟

Test method 测试方法

Test cells and batteries are stored at a pressure of 11.6 kPa or less for at least six hours at ambient temperature (20±5°C).

试验电芯和电池被放置在压力等于或低于 11.6 kPa 和环境温度(20±5°C)下存放至少 6 小时。

Requirement 要求

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure.

电芯和电池须无渗漏、无泄气、无解体、无破裂和无起火，并且每个试验电芯或电池在试验后的开路电压不小于其在进行这一试验前电压的 90%。

T.2. Thermal test 温度试验

Test method 测试方法

Test cells and batteries are to be stored for at least six hours at a test temperature equal to 72±2°C, followed by storage for at least six hours at a test temperature equal to -40±2°C. The maximum time interval between test temperature extremes is 30 minutes. This procedure is to be repeated until 10 total cycles are complete, after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20±5°C). For large cells and batteries the duration of exposure to the test temperature extremes should be at least 12 hours.

试验电芯和电池放置在试验温度等于 72±2°C 的条件下存放至少 6 小时，接着再在试验温度等于 -40±2°C 的条件下存放至少 6 小时。两个极端试验温度之间的最大时间间隔为 30 分钟。此程序重复进行，共完成 10 次循环，接着将所有试验电芯和电池在环境温度(20±5°C)下存放 24 小时。对于大型电芯和电池，暴露于极端试验温度的时间至少应为 12 小时。

Requirement 要求

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure.

电芯和电池须无渗漏、无泄气、无解体、无破裂和无起火，并且每个试验电芯或电池在试验后的开路电

压不小于其在进行这一试验前电压的 90%。

T.3. Vibration 振动

Test method 测试方法

Cells and batteries are firmly secured to the platform of the vibration machine without distorting the cells in such a manner as to faithfully transmit the vibration. The vibration shall be a sinusoidal waveform with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes. This cycle shall be repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting positions of the cell. One of the directions of vibration must be perpendicular to the terminal face.

电芯和电池紧固于振动台台面，但不得造成电芯变形，并能准确可靠地传播振动。振动应是正弦波形，对数扫描频率在 7 Hz 和 200 Hz 之间，再回到 7 Hz，跨度为 15 分钟。这一振动过程须对三个互相垂直的电芯安装方位的每一方向重复进行 12 次，总共为时 3 小时。其中一个振动方向必须与端面垂直。

The logarithmic frequency sweep shall differ for cells and batteries with a gross mass of not more than 12 kg (cells and small batteries), and for batteries with a gross mass of more than 12 kg (large batteries).

作对数式频率扫描，对电芯和总质量不超过 12 千克的电池（电芯和小型电池），和对质量超过 12 千克的电池（大型电池）有所不同。

For cells and small batteries : from 7 Hz a peak acceleration of 1 gn is maintained until 18 Hz is reached. The amplitude is then maintained at 0.8 mm (1.6 mm total excursion) and the frequency increased until a peak acceleration of 8 gn occurs (approximately 50 Hz). A peak acceleration of 8 gn is then maintained until the frequency is increased to 200 Hz.

对电芯和小型电池：从 7 Hz 开始，保持 1 gn 的最大加速度，直到频率达到 18 Hz。然后将振幅保持在 0.8mm（总位移 1.6mm），并增加频率直到峰值加速度达到 8 gn（频率约为 50 Hz）。将峰值加速度保持在 8 gn 直到频率增加到 200 Hz。

For large batteries : from 7 Hz a peak acceleration of 1 gn is maintained until 18 Hz is reached. The amplitude is then maintained at 0.8 mm (1.6 mm total excursion) and the frequency increased until a peak acceleration of 2 gn occurs (approximately 25 Hz). A peak acceleration of 2 gn is then maintained until the frequency is increased to 200 Hz.

对大型电池：从 7 Hz 开始，保持 1 gn 的最大加速度，直到频率达到 18 Hz。然后将振幅保持在 0.8mm（总位移 1.6mm），并增加频率直到峰值加速度达到 2 gn（频率约为 25Hz）。将峰值加速度保持在 2 gn 直到频率增加到 200 Hz。

Requirement 要求

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure.

电芯和电池须无渗漏、无泄气、无解体、无破裂和无起火，并且每个试验电芯或电池在试验后的开路电压不小于其在进行这一试验前电压的 90%。

T.4. Shock 冲击

Test method 测试方法

Test cells and batteries shall be secured to the testing machine by means of a rigid mount which will support all mounting surfaces of each test battery.

试验电芯和电池用刚性支架紧固在试验装置上，支架支撑着每个试验电池的所有安装面。

Each cell shall be subjected to a half-sine shock of peak acceleration of 150 gn and pulse duration of 6 milliseconds. Alternatively, large cells may be subjects to a half-sine shock of peak acceleration of 50 gn and pulse duration of 11 milliseconds.

每个电芯须经受峰值加速度 150 gn 和脉冲持续时间 6 ms 的半正弦波冲击。不过，大型电芯须经受峰值加速度 50 gn 和脉冲持续时间 11 ms 的半正弦波冲击。

Each battery shall be subjected to a half-sine shock of peak acceleration depending on the mass of the battery. The pulse duration shall be 6 milliseconds for small batteries and 11 milliseconds for large batteries.

The formulas below are provided to calculate the appropriate minimum peak accelerations.

每个电池须经受半正弦波冲击，峰值加速度需要根据电池的重量来决定。小型电池的脉冲持续时间为 6 ms，大型电池的脉冲持续时间为 11ms。下面的公式是用来计算合适的最小峰值加速度。

Battery	Minimum peak acceleration	Pulse duration
Small batteries	150 g _n or result of formula $Acceleration(g_n) = \sqrt{\left(\frac{100850}{mass^*}\right)}$ whichever is smaller	6 ms
Large batteries	50 g _n or result of formula $Acceleration(g_n) = \sqrt{\left(\frac{30000}{mass^*}\right)}$ whichever is smaller	11 ms

* Mass is expressed in kilograms.

电池	最小峰值加速度	脉冲持续时间
小型电池	150 gn 或计算结果中取最小的值 $加速度(g_n) = \sqrt{\left(\frac{100850}{mass}\right)}$	6ms
大型电池	50 gn 或计算结果中取最小的值 $加速度(g_n) = \sqrt{\left(\frac{30000}{mass}\right)}$	11 ms

Each cell or battery shall be subjected to three shocks in the positive direction and to three shocks in the negative direction in each of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks.

每个电芯或电池须在三个互相垂直的电芯或电池安装方位的正方向经受三次冲击，接着在反方向经受三次冲击，总共经受 18 次冲击。

Requirement 要求

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure.

电芯和电池须无渗漏、无泄气、无解体、无破裂和无起火，并且每个试验电芯或电池在试验后的开路电压不小于其在进行这一试验前电压的 90%。

T.5. External short circuit 外部短路

Test method 测试方法

The cell or battery to be tested shall be heated for a period of time necessary to reach a homogeneous stabilized temperature of 57±4°C, measured on the external case. This period of time depends on the size and design of the cell or battery and should be assessed and documented. If this assessment is not feasible, the exposure time shall be at least 6 hours for small cells and small batteries, and 12 hours for large cells and large batteries. Then the cell or battery at 57±4°C shall be subjected to one short circuit condition with a total external resistance of less than 0.1 ohm.

试验电芯或电池需要加热一段时间，以使其外壳温度均匀稳定地达到 57±4°C。加热时间的长短是由电芯或电池的尺寸和设计来决定的，这个加热时间需要评估并记录。如果这个加热时间不好评估的话，对于小电芯和小电池需要在此温度下放置至少 6 个小时，对于大电芯和大电池至少放置 12 个小时。然后使电芯或电池在 57±4°C 下经受总外电阻小于 0.1Ω 的短路条件。

This short circuit condition is continued for at least one hour after the cell or battery external case

temperature has returned to $57\pm 4^{\circ}\text{C}$, or in the case of the large batteries, has decreased by half of the maximum temperature increase observed during the test and remains below that value.

短路测试持续到电芯或电池外壳温度回到 $57\pm 4^{\circ}\text{C}$ 后至少持续 1 小时，针对大电池，外壳温度需要下降到测试过程中监控到的最大温度的一半以下。

The short circuit and cooling down phases shall be conducted at least at ambient temperature.

短路测试和冷却阶段至少应该在环境温度下进行。

Requirement 要求

Cells and batteries meet this requirement if their external temperature does not exceed 170°C and there is no disassembly, no rupture and no fire during the test and within six hours after test.

电芯和电池外壳温度不超过 170°C ，并且在试验过程中及试验后 6 小时内无解体、无破裂，无起火。

T.6. Impact / Crush 撞击/挤压

Test procedure – Impact (applicable to cylindrical cells not less than 18.0 mm in diameter)

测试步骤 – 撞击 (适用于直径大于等于 18.0 毫米以上的圆柱形电芯)

The test sample cell or component cell is to be placed on a flat smooth surface. A 15.8 mm \pm 0.1mm diameter, at least 6 cm long, or the longest dimension of the cell, whichever is greater, Type 316 stainless steel bar is to be placed across the centre of the sample. A 9.1 kg \pm 0.1 kg mass is to be dropped from a height of 61 \pm 2.5 cm at the intersection of the bar and sample in a controlled manner using a near frictionless, vertical sliding track or channel with minimal drag on the falling mass. The vertical track or channel used to guide the falling mass shall be oriented 90 degrees from the horizontal supporting surface.

试样电芯或电芯组件放在平坦光滑表面上，一根 316 型不锈钢棒横放在试样中心，钢棒直径 15.8 毫米 \pm 0.1 毫米，长度至少 6 厘米，或电芯最长端的尺度，取二者之长者。将一块 9.1 千克 \pm 0.1 千克的重锤从 61 \pm 2.5 厘米高度跌落到钢棒和试样交叉处，使用一个几乎没有摩擦的、对落体重锤阻力最小的垂直轨道或管道加以控制。垂直轨道或管道用于引导落锤沿与水平支撑表面呈 90 度落下。

The test sample is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the 15.8 mm \pm 0.1mm diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact.

受撞击的试样，纵轴应与平坦表面平行并与横放在试样中心的直径 15.8 \pm 0.1 毫米弯曲表面的纵轴垂直。每一试样只经受一次撞击。

Test procedure – Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18.0 mm in diameter)

测试步骤– 挤压 (适用于棱柱形，袋状，硬币/纽扣电芯和圆柱形电芯直径小于 18.0 毫米)

A cell or component cell is to be crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1.5 cm/s at the first point of contact. The crushing is to be continued until the first of the three options below is reached.

将电芯或电芯组件放在两个平面之间挤压，挤压力度逐渐加大，在第一个接触点上的速度大约为 1.5 cm/s。挤压持续进行，直到出现以下三种情况之一：

- (a) The applied force reaches 13 kN \pm 0.78 kN;
 - (b) The voltage of the cell drops by at least 100 mV;
 - (c) The cell is deformed by 50% or more of its original thickness.
- (a)施加的力达到 13 kN \pm 0.78 kN;
- (b)电芯的电压下降至少 100mV;
- (c)电芯形变达到原始厚度的 50%或更多。

Once the maximum pressure has been obtained, the voltage drops by 100 mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released.

一旦达到最大压力、电压下降 100mV 或更多，或电芯形变至少达到原始厚度的 50%，即可解除压力。

A prismatic or pouch cell shall be crushed by applying the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces. For cylindrical cells, the crush force shall be

applied perpendicular to the longitudinal axis.

棱柱形或袋装电芯须从最宽的面施压。纽扣/硬币形电芯应从其平坦表面施压。圆柱形电芯应从与纵轴垂直的方向施压。

Each test cell or component cell is to be subjected to one crush only. The test sample shall be observed for a further 6 h. The test shall be conducted using test cells or component cells that have not previously been subjected to other tests.

每个试样电芯或电芯组件只做一次挤压试验。试样须继续观察 6 小时。试验须使用之前未做过其他试验的试样电芯或电芯组件进行。

Requirement 要求

Cell and component cells meet this requirement if their external temperature does not exceed 170°C and there is no disassembly and no fire during the test and within six hours after test.

电芯和电芯组件外壳温度不超过 170°C，并且在试验过程中及试验后 6 小时内无解体，无起火。

T.7. Overcharge 过充电

Test method 测试方法

The charge current shall be twice the manufacturer's recommended maximum continuous charge current. The minimum voltage of the test shall be as follows:

充电电流为制造商推荐的最大持续充电电流的两倍。试验的最小电压如下：

- (a) When the manufacturer's recommended charge voltage is not more than 18V, the minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the battery or 22V.
- (b) When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of the test shall be 1.2 times the maximum charge voltage.

(a) 制造商推荐的充电电压不大于 18 伏时，试验的最小电压应是电池最大充电电压的两倍或 22 伏两者中的较小者。

(b) 制造商推荐的充电电压大于 18 伏时，试验的最小电压应是电池最大充电电压的 1.2 倍。

Tests are to be conducted at ambient temperature. The duration of the test shall be 24 hours.

试验应在环境温度下进行。进行试验的时间应为 24 小时。

Requirement 要求

Rechargeable batteries meet this requirement if there is no disassembly and no fire during the test and within seven days after the test.

充电电池应在试验过程中和试验后 7 天内无解体，无起火。

T.8. Forced discharge 强制放电

Test method 测试方法

Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer.

每个电芯在环境温度下与 12V 直流电电源串联在起始电流等于制造商给定的最大放电电流的条件下强制放电。

The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell. Each cell is forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere).

试样电芯与一个适当大小的电阻负载串联以调节到规定大小的放电电流。每个电芯的放电时间(单位为 h)等于电芯的额定容量除以试验初始放电电流(单位 A)。

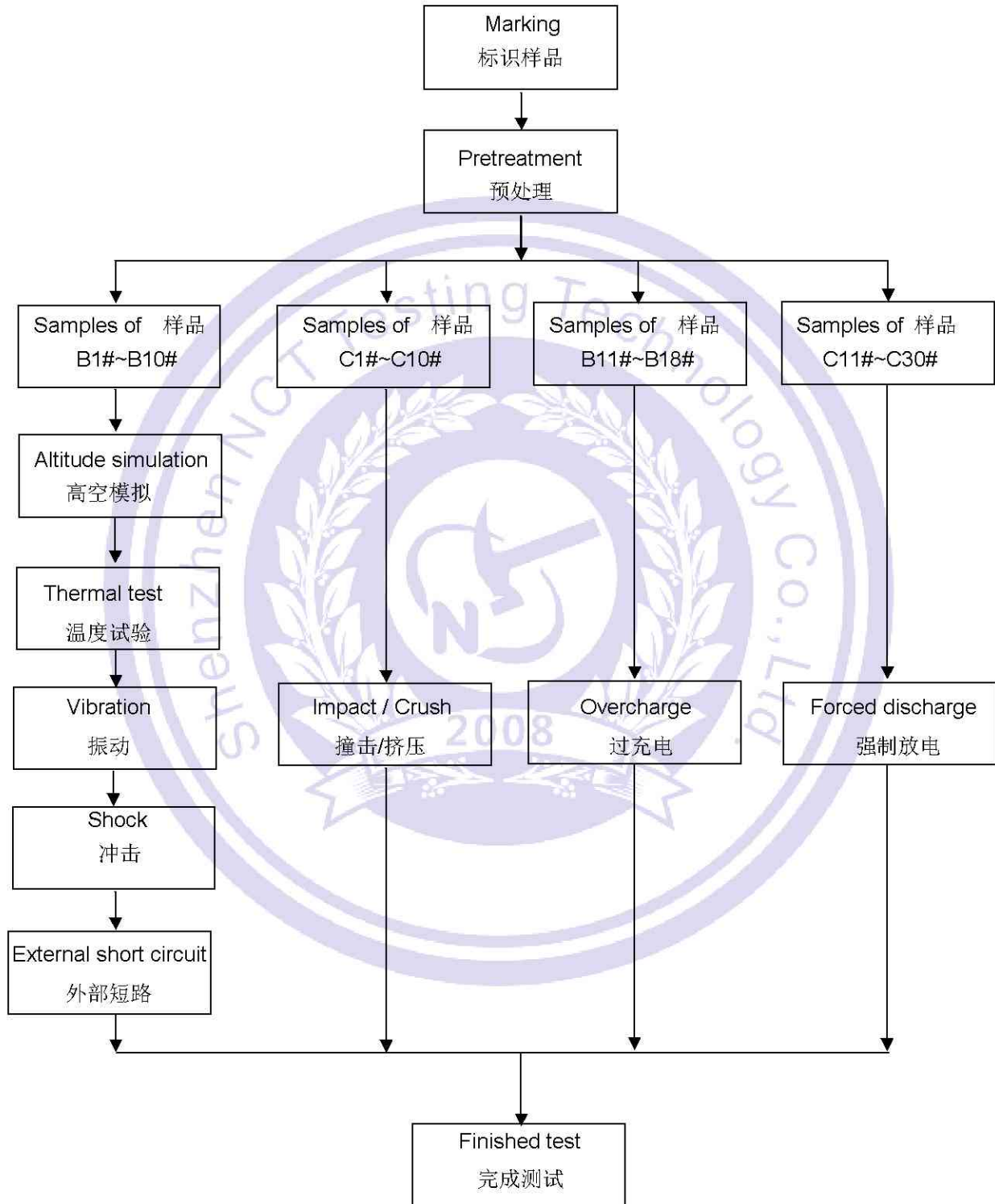
Requirement 要求

Primary or rechargeable cells meet this requirement if there is no disassembly and no fire during the

test and within seven days after the test.

原电芯或充电电芯应在试验过程中和试验后 7 天内无解体，无起火。

V、Test Procedure 测试流程



VI、Main Test Apparatus 主要测试仪器

Serial No. 设备编号	Name of Equipment 设备名称	Model 型号	Calibration Date /Due Date 校准日期/到期日
NCT-011	Charge and discharge testing system 充放电测试系统	R2D6-20V-10A	2019. 11. 25
			2020. 11. 24
NCT-012	Low-pressure high-altitude simulation test chamber 低压高空模拟试验箱	GX-3020-Z	2019. 11. 25
			2020. 05. 24
NCT-017	Constant temperature and humidity test chamber 恒温恒湿试验箱	GX-3000-150LT	2019. 11. 25
			2020. 11. 24
NCT-021	Vibration test instrument 振动测试仪器	ES-3-150	2019. 11. 25
			2020. 11. 24
NCT-022	Shock test instrument 冲击测试仪器	SY10-2	2019. 06. 28
			2020. 06. 27
NCT-018	Battery short circuit test instrument 电池短路测试仪器	BE-1000W	2019. 11. 25
			2020. 11. 24
NCT-020	Crush test instrument 挤压测试仪器	BE-6045T	2019. 06. 28
			2020. 06. 27
NCT-026	Electronic Load 电子负载	8511	2019. 11. 25
			2020. 11. 24
NCT-033	DC regulated power supply 直流稳压电源	PS1540	2019. 11. 25
			2020. 11. 24
NCT-016	Battery anti-explosion chamber 电池防爆箱	GX-FB-200	--
			--
NCT-003	Electronic Scale 电子秤	JC-223S	2019. 11. 25
			2020. 11. 24
NCT-001	Digital Multimeter 数字万用表	17B+	2019. 11. 25
			2020. 11. 24
NCT-029	Temperature recorder 温度记录仪	34970A	2019. 11. 25
			2020. 11. 24

VII、Test Data 测试数据

T.1. Altitude simulation 高度模拟

The state of cells 样品状态	No. 编号	Pre-test 试验前		After test 试验后		Mass loss 质量损失 (%)	Voltage after test/Voltage pre-test 试验后电压/试验前电压(%)	Status 结果
		Mass 质量 (g)	Voltage 电压 (V)	Mass 质量 (g)	Voltage 电压 (V)			
Full charged after one cycle 1 次循环后 满电状态	B1#	5.469	4.195	5.467	4.192	0.037	99.928	Pass 合格
	B2#	5.351	4.196	5.350	4.193	0.019	99.929	Pass 合格
	B3#	5.346	4.192	5.344	4.190	0.037	99.952	Pass 合格
	B4#	5.261	4.194	5.260	4.191	0.019	99.928	Pass 合格
	B5#	5.334	4.192	5.332	4.191	0.037	99.976	Pass 合格
Full charged after twenty-five cycles 25 次循环后满电状态	B6#	5.371	4.194	5.370	4.191	0.019	99.928	Pass 合格
	B7#	5.355	4.193	5.354	4.192	0.019	99.976	Pass 合格
	B8#	5.464	4.193	5.462	4.192	0.037	99.976	Pass 合格
	B9#	5.356	4.190	5.355	4.187	0.019	99.928	Pass 合格
	B10#	5.346	4.192	5.344	4.190	0.037	99.952	Pass 合格

Notes 注释: Atmospheric pressure 大气压强: 1.013×10^5 Pa, Ambient temperature 环境温度: 23.2°C
After the test, there is no leakage, no venting, no disassembly, no rupture and no fire.
测试后, 电池未渗漏、未泄气、未解体、未破裂和未起火。

T.2. Thermal test 温度试验

The state of cells 样品状态	No. 编号	Pre-test 试验前		After test 试验后		Mass loss 质量损失 (%)	Voltage after test/Voltage pre-test 试验后电压/试验前电压(%)	Status 结果
		Mass 质量 (g)	Voltage 电压 (V)	Mass 质量 (g)	Voltage 电压 (V)			
Full charged after one cycle 1 次循环后 满电状态	B1#	5.467	4.192	5.463	4.149	0.073	98.974	Pass 合格
	B2#	5.350	4.193	5.348	4.152	0.037	99.022	Pass 合格
	B3#	5.344	4.190	5.340	4.148	0.075	98.998	Pass 合格
	B4#	5.260	4.191	5.258	4.148	0.038	98.974	Pass 合格
	B5#	5.332	4.191	5.330	4.150	0.038	99.022	Pass 合格
Full charged after twenty-five cycles 25 次循环后满电状态	B6#	5.370	4.191	5.366	4.150	0.074	99.022	Pass 合格
	B7#	5.354	4.192	5.352	4.149	0.037	98.974	Pass 合格
	B8#	5.462	4.192	5.460	4.151	0.037	99.022	Pass 合格
	B9#	5.355	4.187	5.351	4.144	0.075	98.973	Pass 合格
	B10#	5.344	4.190	5.340	4.148	0.075	98.998	Pass 合格

Notes 注释: Atmospheric pressure 大气压强: 1.013×10^5 Pa, Ambient temperature 环境温度: 23.1°C
After the test, there is no leakage, no venting, no disassembly, no rupture and no fire.
测试后, 电池未渗漏、未泄气、未解体、未破裂和未起火。

T.3. Vibration 振动

The state of cells 样品状态	No. 编号	Pre-test 试验前		After test 试验后		Mass loss 质量损失 (%)	Voltage after test/Voltage pre-test 试验后电压/试验前电压(%)	Status 结果
		Mass 质量 (g)	Voltage 电压 (V)	Mass 质量 (g)	Voltage 电压 (V)			
Full charged after one cycle 1 次循环后 满电状态	B1#	5.463	4.149	5.462	4.147	0.018	99.952	Pass 合格
	B2#	5.348	4.152	5.348	4.151	0.000	99.976	Pass 合格
	B3#	5.340	4.148	5.339	4.147	0.019	99.976	Pass 合格
	B4#	5.258	4.148	5.258	4.147	0.000	99.976	Pass 合格
	B5#	5.330	4.150	5.330	4.148	0.000	99.952	Pass 合格
Full charged after twenty-five cycles 25 次循环后 满电状态	B6#	5.366	4.150	5.365	4.149	0.019	99.976	Pass 合格
	B7#	5.352	4.149	5.351	4.147	0.019	99.952	Pass 合格
	B8#	5.460	4.151	5.460	4.150	0.000	99.976	Pass 合格
	B9#	5.351	4.144	5.351	4.142	0.000	99.952	Pass 合格
	B10#	5.340	4.148	5.339	4.146	0.019	99.952	Pass 合格

Notes 注释: Atmospheric pressure 大气压强: 1.013×10^5 Pa, Ambient temperature 环境温度: 23.1°C
After the test, there is no leakage, no venting, no disassembly, no rupture and no fire.
测试后, 电池未渗漏、未泄气、未解体、未破裂和未起火。

T.4. Shock 冲击

The state of cells 样品状态	No. 编号	Pre-test 试验前		After test 试验后		Mass loss 质量损失 (%)	Voltage after test/Voltage pre-test 试验后电压/试验前电压(%)	Status 结果
		Mass 质量 (g)	Voltage 电压 (V)	Mass 质量 (g)	Voltage 电压 (V)			
Full charged after one cycle 1 次循环后 满电状态	B1#	5.462	4.147	5.461	4.145	0.018	99.952	Pass 合格
	B2#	5.348	4.151	5.348	4.150	0.000	99.976	Pass 合格
	B3#	5.339	4.147	5.339	4.146	0.000	99.976	Pass 合格
	B4#	5.258	4.147	5.257	4.145	0.019	99.952	Pass 合格
	B5#	5.330	4.148	5.330	4.146	0.000	99.952	Pass 合格
Full charged after twenty-five cycles 25 次循环后 满电状态	B6#	5.365	4.149	5.364	4.148	0.019	99.976	Pass 合格
	B7#	5.351	4.147	5.351	4.146	0.000	99.976	Pass 合格
	B8#	5.460	4.150	5.459	4.148	0.018	99.952	Pass 合格
	B9#	5.351	4.142	5.351	4.141	0.000	99.976	Pass 合格
	B10#	5.339	4.146	5.339	4.144	0.000	99.952	Pass 合格

Notes 注释: Atmospheric pressure 大气压强: 1.013×10^5 Pa, Ambient temperature 环境温度: 23.0°C
After the test, there is no leakage, no venting, no disassembly, no rupture and no fire.
测试后, 电池未渗漏、未泄气、未解体、未破裂和未起火。

T.5. External short circuit 外部短路

The state of cells 样品状态	No. 编号	External Peak temperature(°C) 电池表面最高温度(°C)	Status 结果
Full charged after one cycle 1 次循环后满电状态	B1#	57.9	Pass 合格
	B2#	57.7	Pass 合格
	B3#	58.2	Pass 合格
	B4#	57.9	Pass 合格
	B5#	58.4	Pass 合格
Full charged after twenty-five cycles 25 次循环后满电状态	B6#	57.7	Pass 合格
	B7#	58.5	Pass 合格
	B8#	58.0	Pass 合格
	B9#	57.6	Pass 合格
	B10#	58.7	Pass 合格
Notes 注释: Atmospheric pressure 大气压强: 1.013×10^5 Pa, Ambient temperature 环境温度: 23.1°C There is no disassembly, no rupture and no fire during the test and within six hours after test. 电池在测试中和测试后 6 小时内未解体、未破裂, 未起火。			

T.6. Crush 挤压

The state of cells 样品状态	No. 编号	External Peak temperature(°C) 电池表面最高温度(°C)	Status 结果
50% charged after one cycle 1 次循环后 50% 充电状态	C1#	23.8	Pass 合格
	C2#	24.1	Pass 合格
	C3#	23.9	Pass 合格
	C4#	24.0	Pass 合格
	C5#	23.7	Pass 合格
50% charged after twenty-five cycles 25 次循环后 50% 充电状态	C6#	24.1	Pass 合格
	C7#	23.6	Pass 合格
	C8#	23.8	Pass 合格
	C9#	23.7	Pass 合格
	C10#	24.0	Pass 合格
Notes 注释: Atmospheric pressure 大气压强: 1.013×10^5 Pa, Ambient temperature 环境温度: 23.1°C There is no disassembly and no fire during the test and within six hours after test. 电芯在测试中和测试后 6 小时内未解体、未起火。			

T.7. Overcharge 过充电

The state of cells 样品状态	No. 编号	Status 结果
Full charged after one cycle 1 次循环后满电状态	B11#	Pass 合格
	B12#	Pass 合格
	B13#	Pass 合格
	B14#	Pass 合格
Full charged after twenty-five cycles 25 次循环后满电状态	B15#	Pass 合格
	B16#	Pass 合格
	B17#	Pass 合格
	B18#	Pass 合格
Notes 注释: Atmospheric pressure 大气压强: 1.013×10^5 Pa, Ambient temperature 环境温度: 23.3°C There is no disassembly and no fire during the test and within seven days after the test. 电池在测试中和测试后 7 天内未解体, 未起火。		

T.8. Forced discharge 强制放电

The state of cells 样品状态	No. 编号	Status 结果
Full discharged after one cycle 1 次循环完全放电状态	C11#	Pass 合格
	C12#	Pass 合格
	C13#	Pass 合格
	C14#	Pass 合格
	C15#	Pass 合格
	C16#	Pass 合格
	C17#	Pass 合格
	C18#	Pass 合格
	C19#	Pass 合格
	C20#	Pass 合格
Full discharged after twenty-five cycles 25 次循环完全放电状态	C21#	Pass 合格
	C22#	Pass 合格
	C23#	Pass 合格
	C24#	Pass 合格
	C25#	Pass 合格
	C26#	Pass 合格
	C27#	Pass 合格
	C28#	Pass 合格

	C29#	Pass 合格
	C30#	Pass 合格

Notes 注释: Atmospheric pressure 大气压强: $1.013 \times 10^5 \text{Pa}$, Ambient temperature 环境温度: 23.2°C
There is no disassembly and no fire during the test and within seven days after the test.
电芯在测试中和测试后 7 天内未解体, 未起火。



VIII、Conclusion 结论

No. 编号	Test item 测试项目	Sample number 样品数量	Test reference 测试参考	Conclusion 结论	
1	Altitude simulation 高空模拟	B1#~B10#	UN Manual of Test and Criteria, part III, subsection 38.3.4.1 UN 试验和标准手册,第III部分,第 38.3.4.1 节	Pass 合格	
2	Thermal test 温度试验		UN Manual of Test and Criteria, part III, subsection 38.3.4.2 UN 试验和标准手册,第III部分,第 38.3.4.2 节	Pass 合格	
3	Vibration 振动		UN Manual of Test and Criteria, part III, subsection 38.3.4.3 UN 试验和标准手册,第III部分,第 38.3.4.3 节	Pass 合格	
4	Shock 冲击		UN Manual of Test and Criteria, part III, subsection 38.3.4.4 UN 试验和标准手册,第III部分,第 38.3.4.4 节	Pass 合格	
5	External short circuit 外部短路		UN Manual of Test and Criteria, part III, subsection 38.3.4.5 UN 试验和标准手册,第III部分,第 38.3.4.5 节	Pass 合格	
6	Impact/Crush 撞击/挤压		C1#~C10#	UN Manual of Test and Criteria, part III, subsection 38.3.4.6 UN 试验和标准手册,第III部分,第 38.3.4.6 节	Pass 合格
7	Overcharge 过度充电		B11#~B18#	UN Manual of Test and Criteria, part III, subsection 38.3.4.7 UN 试验和标准手册,第III部分,第 38.3.4.7 节	Pass 合格
8	Forced discharge 强制放电		C11#~C30#	UN Manual of Test and Criteria, part III, subsection 38.3.4.8 UN 试验和标准手册,第III部分,第 38.3.4.8 节	Pass 合格

The submitted samples were complied with the stated requirements of UN manual of test and criteria, part III, subsection 38.3, the test result is qualified.

经检测,提交的测试样品均符合 UN38.3 的要求,测试结论为合格。

IX、Photo of The Sample 样品图片

Model 型号: CY 502030

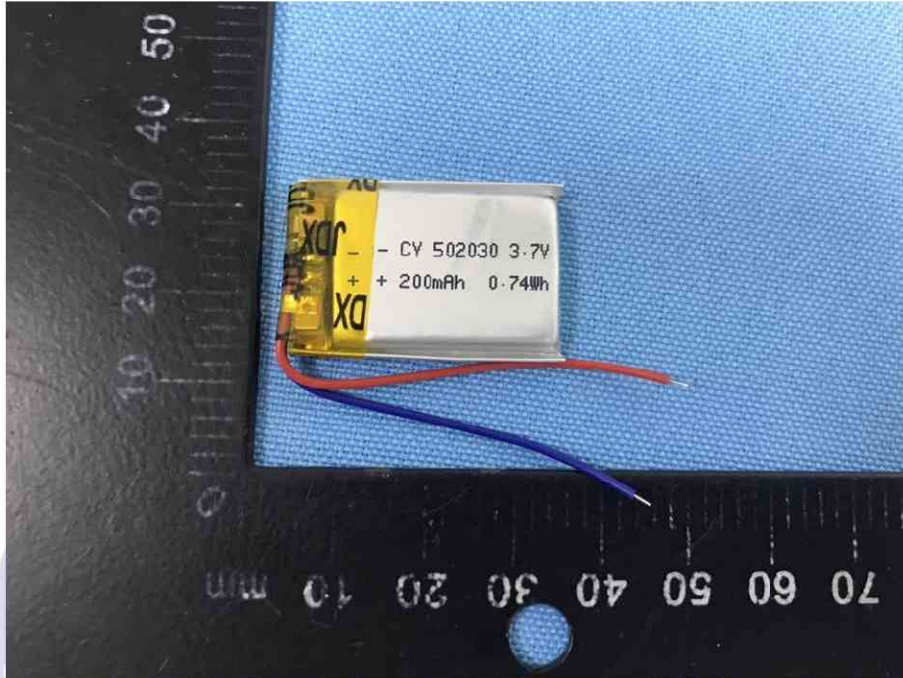


Photo 1 Front 正面

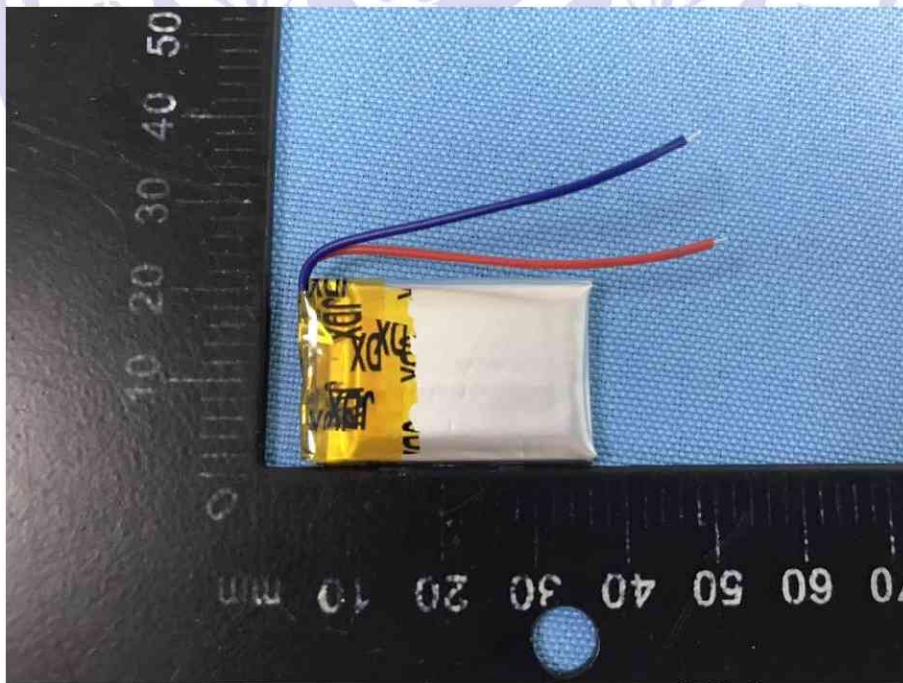


Photo 2 Rear 反面

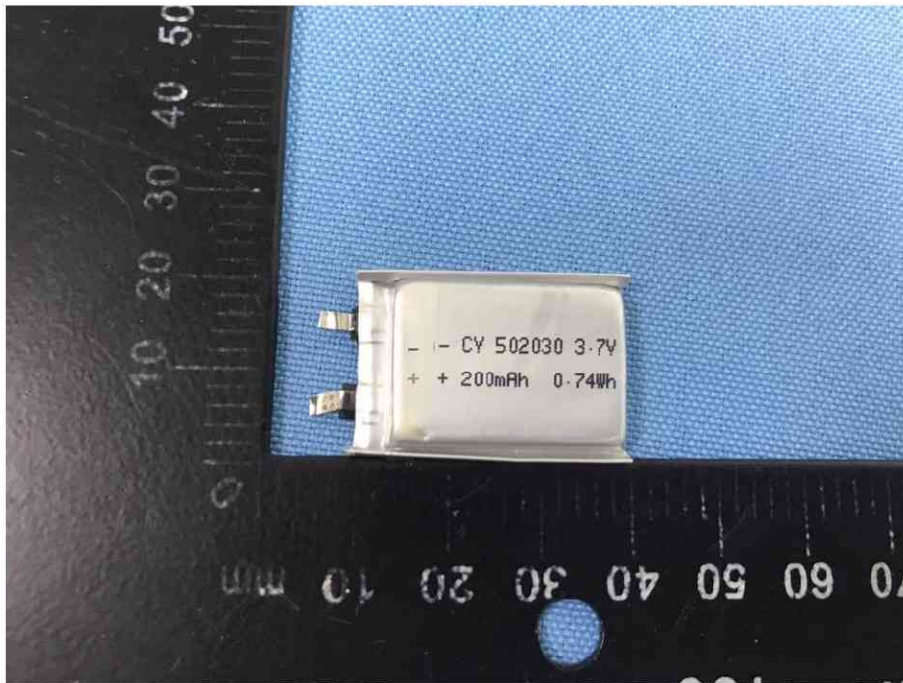


Photo 3 Internal Cell 内部电芯

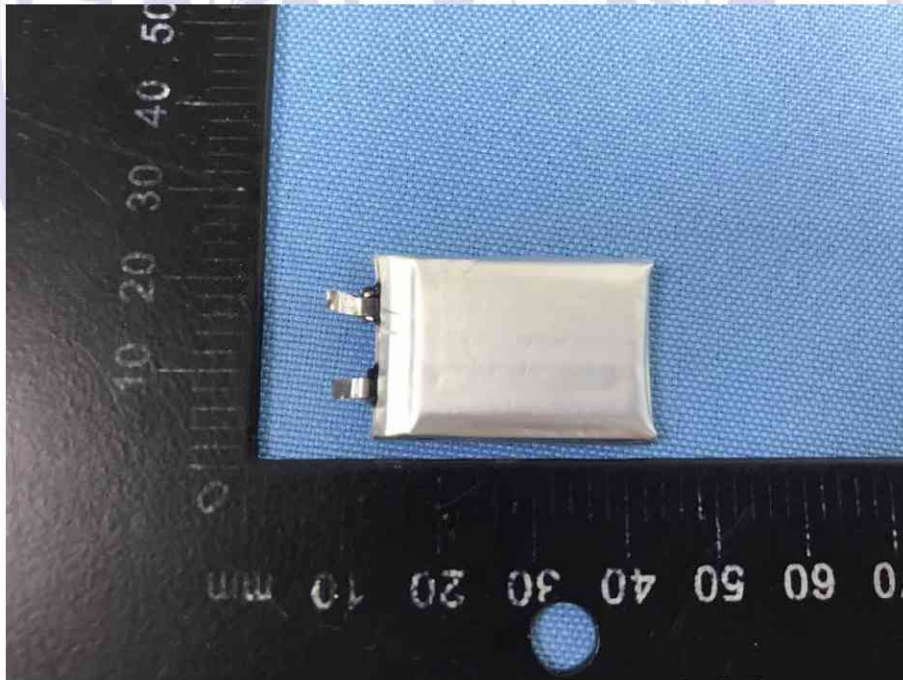


Photo 4 Internal Cell 内部电芯

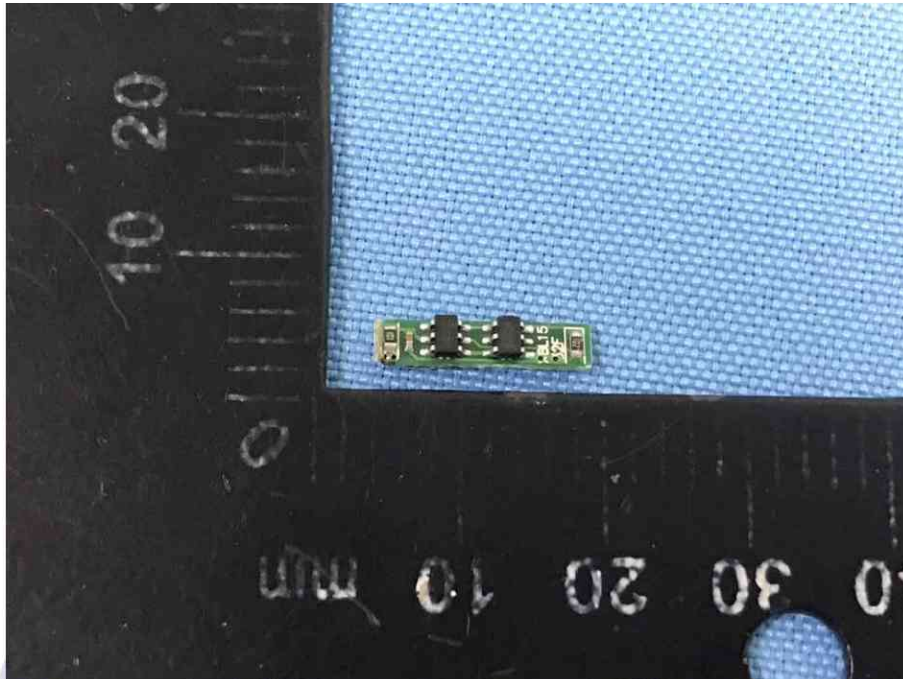


Photo 5 Protection board 保护板

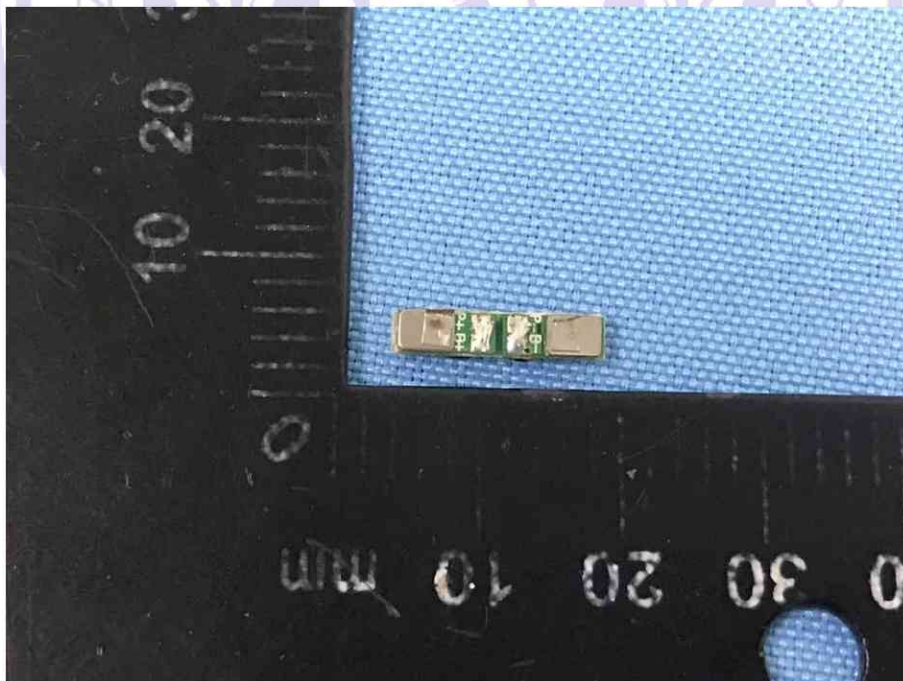


Photo 6 Protection board 保护板

注意事项**Important Notice**

1. The test report is invalid without the official stamp of NCT.
本报告书无 NCT 盖章无效。
2. Nobody is allowed to photocopy or partly photocopy this test report without written permission of NCT.
未经 NCT 书面同意，不得复制或部分地复制本报告书。
3. The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.
本报告书无批准人、审核人、及主检人签名无效。
4. The report is invalid when anything of following happens – illegal transfer, reproduce, embezzlement, imposture, modification or tampering in any media form.
私自转让、复制、盗用、冒用、涂改、或以任何媒体形式篡改的报告书无效。
5. Objections to the test report must be submitted to NCT within 15 days.
对报告书若有异议，应于收到报告之日起 15 天内向本公司提出。
6. The test report is valid for the tested samples only.
本报告仅对测试样品有效。
7. The Chinese contents in this report are only for reference.
本报告中的中文内容仅供参考。

*****End of Report 报告结束*****

Material Safety Data Sheet

化学品安全技术说明书

Section 1- Chemical Product & Company Identification

第一部分 化学品及企业标识

Product Name: Li-ion Battery

产品名称: 锂离子电池

Manufacture: Hubei Chiya New Energy Technology Co., Ltd.

制造商: 湖北驰亚新能源科技有限公司

Address: Group 3, Erdao Village, yunyang Economic Development Zone, Shiyan City

地址: 十堰市郧阳经济开发区二道村三组

Contact Person 联系人: Mr. Chen

Tel 电话: +86-13868575968

Fax 传真: N/A

Emergency Tel 应急电话: +86-13868575968

E-mail 邮箱: 641576904@qq.com

Item Code 项目号: NCT20018466XM1-1

Section 2- Hazards Identification

第二部分 危险性概述

Hazard Description 危险性描述	Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredients products could be harmful. 正常使用没有危险, 不能拆解、打开或分解电池, 里面的材料或成分是有毒的。
Primary Route(s) of Exposure 接触途径	Inhalation, Ingestion, Skin contact and Eye contact. 吸入、食入、皮肤接触、眼睛接触。

<p>Potential Health Effects 潜在健康影响</p>	<p>Inhalation: Vapors or mists from a ruptured battery may cause respiratory irritation. 吸入：破裂的电池散发出来的气雾会引起呼吸道刺激。</p> <p>Ingestion: The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. 食入：电池的组成成分或原料可以导致嘴，食道和胃肠道的严重化学烧伤。</p> <p>Skin: Skin contact with contents of an open battery can cause severe irritation or burns to the skin. 皮肤：皮肤接触到电池的内部化学材料可能会导致严重的刺激或烧伤皮肤。</p> <p>Eye: Eye contact with contents of an open battery can cause severe irritation or burns to the eye. 眼睛：眼睛接触到电池的内部化学材料可能会导致严重的刺激或烧伤眼睛。</p>
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Section 3- Composition/Information on Ingredients

第三部分 成分/组成信息

Chemical Name 化学名称	Concentration or concentration ranges (%) 浓度或浓度范围(%)	CAS Number CAS 号 (化学文摘索引登记号)
Lithium Cobalt Oxide 钴酸锂	35-38	12190-79-3
Graphite 石墨	20-22	7782-42-5
Copper 铜	9-10	7440-50-8
Aluminum 铝	5-6	7429-90-5
Ethylene carbonate 碳酸乙烯酯	14-16	96-49-1
Polypropylene 聚丙烯	5-6	9003-07-0
Carbonate, methyl ethyl 碳酸甲乙酯	4-5	623-53-0
Phosphate(1-), hexafluoro-, lithium 六氟磷酸锂	5-6	21324-40-3

Note: CAS number is Chemical Abstract Service Registry Number.

注意：CAS 号是化学文摘服务注册号。

N/A=Not apply.

N/A =不适用。

Section 4- First Aid Measures

第四部分 急救措施

Inhalation 吸入	Remove source of contamination or move victim to fresh air. Obtain medical advice. 移除污染源或者将受害者移至新鲜空气处。寻求医生建议。
Ingestion 食入	Please rinse mouth thoroughly with water. Induce vomiting under the guidance of professional personage. Please seek medical treatment in time. 立即用清水漱口，在专业人士的指导下催吐，速就医。
Skin contact 皮肤接触	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid. 脱下已污染衣服，用大量的水冲洗至少 15 分钟，速就医。
Eye contact 眼睛接触	Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician. 用流动水冲洗 15 分钟，如刺激持续发生，请求助于医生。

Section 5- Fire Fighting Measures

第五部分 消防措施

Characteristics of Hazard 危险特性	Toxic fumes, gases or vapors may evolve on burning. 火灾时可释放有害浓烟、气体或者蒸汽。
Hazardous Combustion Products 燃烧产生的危险物品	Carbon monoxide, carbon dioxide, lithium oxide fumes and so on. 一氧化碳，二氧化碳，锂氧化物烟气等。
Fire-extinguishing Methods and Extinguishing Media 灭火方法及灭火剂	Please use water, dry sand and other proper fire extinguishing media. 请使用水，干燥沙等合适的灭火介质。
Attention in Fire-extinguishing 灭火注意事项	The firemen should put on antigas masks and full fire-fighting suits. 消防人员须佩戴防毒面具、穿全身消防服。

Section 6- Accidental Release Measures

第六部分 泄露应急处理

<p>Personal Precautions, protective equipment, and emergency procedures 个人预防措施、防护装备和应急程序</p>	<p>Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8. 限制区域，直到完成清理工作。请勿触摸泄漏的材料。穿戴适当的个人防护设备，如第 8 部分所示。</p>
<p>Environmental Precautions 环境保护措施</p>	<p>Prevent material from contaminating soil and from entering sewers or waterways. 防止物质污染土壤和进入下水道或水道。</p>
<p>Methods and materials for Containment 方法和材料控制</p>	<p>Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately. 出于安全，阻止泄漏，可以用干砂或沙土来遏制液体泄露，立即清理泄漏。</p>
<p>Methods and materials for cleaning up 清理的方法和材料</p>	<p>Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal. 用惰性吸收剂(干砂或沙土)吸收溢出的材料。污染物转移到可吸收废物的容器。收集所有受污染的吸收剂和根据第 13 部分的指令处置。用洗涤剂和水清洁污染区域,收集所有受污染的洗涤水进行适当处置。</p>

Section 7- Handling and Storage

第七部分 操作处置与储存

<p>Handling 操作</p>	<p>Don't handling the batteries in manner that allows terminals to short circuit. Do not open, disassemble, crush or burn battery. 不要以让接头短路的方式对电池进行操作。不要打开，分解，挤压或燃烧电池。</p>
<p>Storage 储存</p>	<p>If the battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the battery periodically. 如果电池长期存放超过 3 个月，建议定期对电池充电。 Long period storage: -10℃~35℃, 60±25%R.H. 长期存储: -10℃~35℃, 相对湿度 60±25% Do not storage the battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects. 不要将电池随意丢在盒子或抽屉里，以免电池之间或电池与其他金属物质发生短路。 Keep out of reach of children. 储存在小孩接触不到的地方。</p>

	<p>Do not expose the battery to heat or fire. Avoid storage in direct sunlight. 不要将电池暴露在火源和热源附近，避免在阳光直射下存储。</p> <p>Do not store together with oxidizing and acidic materials. 不要与氧化和酸性物质存储在一起。</p>
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Section 8 - Exposure Controls/Personal Protection

第八部分 接触控制和个体防护

<p>Engineering Controls 工程控制</p>	<p>No engineering controls are required for handling batteries that have not been damaged. Personal protective equipments for damaged batteries should include chemical resistant gloves and safety glasses. 操作未破损的电池，没有工程控制要求。对于破损的电池，个人防护用品应包括化学品防护手套和安全眼镜。</p>
<p>Personal Protective Equipment 个人防护设备</p>	<p>Respiratory Protection: In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use. Not necessary under conditions of normal use. 呼吸保护：当电池排气阀打开时，应尽量使通风设备开至最大，避免将打开排气阀的电芯局限在某一狭窄空间内。正常操作条件下，呼吸保护是不必要的。正常使用条件下不必考虑。</p> <p>Protective Gloves: Not necessary under conditions of normal use. 防护手套：正常使用条件下不必考虑。</p> <p>Other Protective Clothing or Equipment: Not necessary under conditions of normal use. 其他防护服装或设备：正常使用条件下不必考虑。</p> <p>Personal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields. 当电池排气阀打开时，应做好个人防护：呼吸防护，防护手套，防护服装和有护边的安全玻璃罩都是要准备的。</p>

Section 9- Physical and Chemical Properties

第九部分 理化特性

<p>Physical State 物理状态</p>	<p>Form: Solid 形态：固体</p>
	<p>Color: Silver 颜色：银色</p>
	<p>Odour: Odorless 气味：无气味</p>

Change in condition 变化条件:	
pH, with indication of the concentration pH, 有浓度指示	No data is available 无数据可提供
Melting point/freezing point 熔点/凝固点	No data is available 无数据可提供
Boiling Point, initial boiling point 沸点, 初沸点	No data is available 无数据可提供
Flash Point 闪点	No data is available 无数据可提供
Upper/lower flammability or explosive limits 上/下燃烧或爆炸限值	No data is available 无数据可提供
Vapor Pressure 蒸汽压	No data is available 无数据可提供
Vapor Density: (Air = 1) 蒸汽密度: (空气= 1)	No data is available 无数据可提供
Density/relative density 密度/相对密度	No data is available 无数据可提供
Solubility in Water 水溶性	Insoluble 不能溶解
n-octanol/water partition coefficient 正辛醇/水分配系数	No data is available 无数据可提供
Auto-ignition temperature 自燃温度	No data is available 无数据可提供
Decomposition temperature 分解温度	No data is available 无数据可提供
Odour threshold 溴阈	No data is available 无数据可提供
Evaporation rate 蒸发速率	No data is available 无数据可提供
Flammability (soil, gas)	No data is available

货物运输条件鉴别报告书

Identification and Classification Report for Transport of Goods

非限制性

(Not subject to these Regulations)

货物名称:	锂离子电池 CY 502030
Name of Goods:	Li-ion Battery CY 502030
委托单位:	湖北驰亚新能源科技有限公司
Commission by:	Hubei Chiya New Energy Technology Co., Ltd.
运输方式:	海运
Transportation:	Marine

深圳诺测检测技术有限公司
Shenzhen NCT Testing Technology Co., Ltd.