

## 锂电池 UN38.3 测试报告

### Lithium Battery UN38.3 Test Report

报告编号 : AGC05125250401UA01  
Report No.

产品名称 : 充电盒  
PRODUCT DESIGNATION : Charging Case

商 标 : N/A  
BRAND NAME

样品型号 : ORF-ME00  
MODEL NAME

申 请 商 : 东莞市逸音电子科技有限公司  
APPLICANT : ASKA Electronics Co., Ltd

签 发 日 期 : 2025 年 04 月 15 日  
DATE OF ISSUE

检 测 标 准 : 联合国《试验和标准手册》(第 7 修订 1 版) 38.3 节  
STANDARD(S) : UN "Manual of Tests and Criteria"  
ST/SG/AC.10/11/Rev.7/Amend1/Subsection 38.3

报 告 版 本 : V1.0  
REPORT VERSION



深圳市鑫宇环检测有限公司

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| 1. 样品描述 Sample Description          |                                                                                                                                                                                  |                                  |                                 |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|
| 样品名称<br>Sample Name                 | 充电盒<br>Charging Case                                                                                                                                                             | 样品型号<br>Model Name               | ORF-ME00                        |
| 测试实验室<br>Testing Laboratory         | 深圳市鑫宇环检测有限公司<br>Attestation of Global Compliance (Shenzhen) Co., Ltd.                                                                                                            |                                  |                                 |
| 测试地址<br>Testing Address             | 深圳市宝安区福海街道和平社区重庆路骏丰工业园厂房 19 栋第一、二层<br>1, 2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China. |                                  |                                 |
| 申请商<br>Applicant                    | 东莞市逸音电子科技有限公司<br>ASKA Electronics Co., Ltd                                                                                                                                       |                                  |                                 |
| 申请商地址<br>Applicant Address          | 广东省东莞市塘厦镇科苑城莆心路 5 号<br>No.5 Puxin Road, Keyuancheng Industrial, Tangxia Town, Dongguan, Guangdong, China                                                                         |                                  |                                 |
| 制造商单位<br>Manufacturer               | 东莞市逸音电子科技有限公司<br>ASKA Electronics Co., Ltd                                                                                                                                       |                                  |                                 |
| 制造商单位地址<br>Manufacturer Address     | 广东省东莞市塘厦镇科苑城莆心路 5 号<br>No.5 Puxin Road, Keyuancheng Industrial, Tangxia Town, Dongguan, Guangdong, China                                                                         |                                  |                                 |
| 工厂<br>Factory                       | 东莞市逸音电子科技有限公司<br>ASKA Electronics Co., Ltd                                                                                                                                       |                                  |                                 |
| 工厂地址<br>Factory Address             | 广东省东莞市塘厦镇科苑城莆心路 5 号<br>No.5 Puxin Road, Keyuancheng Industrial, Tangxia Town, Dongguan, Guangdong, China                                                                         |                                  |                                 |
| 电池类型<br>Battery Type                | 单电芯锂离子电池<br>Single Cell Li-ion Battery                                                                                                                                           | 组成方式<br>Composing Mode           | 1S1P                            |
| 标称电压<br>Nominal Voltage             | 5V(3.7V)                                                                                                                                                                         | 额定容量<br>Rated Capacity           | 550mAh                          |
| 瓦时<br>Watt-hour                     | 2.035Wh                                                                                                                                                                          | 形状<br>Form                       | 黑色+白色块状<br>Black and White Lump |
| 充电限制电压<br>Limited Charge Voltage    | 5.25V                                                                                                                                                                            | 终止电压<br>End of discharge voltage | 3V                              |
| 标准充电电流<br>Charge Current            | 110mA                                                                                                                                                                            | 最大充电电流<br>Maximum Charge Current | 550mA                           |
| 最大放电电流<br>Maximum Discharge Current | 550mA                                                                                                                                                                            | 充电截止电流<br>End Charge Current     | 11mA                            |
| 电芯型号<br>Cell Model                  | 14300P                                                                                                                                                                           | 电芯容量<br>Cell Rated Capacity      | 550mAh                          |
| 测试开始日期<br>Test start date           | 2025 年 03 月 26 日                                                                                                                                                                 | 测试结束日期<br>Test end date          | 2025 年 04 月 15 日                |

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**2、测试标准 Standard**

联合国《试验和标准手册》(第 7 修订 1 版) 38.3 节

UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.7/Amend1/Subsection 38.3

**3、测试项目及结论 Test Item And Conclusion**

| 测试项目 Item                   | 测试样品编号<br>Samples Number | 结论 Conclusion |
|-----------------------------|--------------------------|---------------|
| 高度模拟 Altitude simulation    | Z1~Z5<br>X1~X5           | 通过 Pass       |
| 温度试验 Thermal test           |                          | 通过 Pass       |
| 振动 Vibration                |                          | 通过 Pass       |
| 冲击 Shock                    |                          | 通过 Pass       |
| 外部短路 External Short Circuit |                          | 通过 Pass       |
| 挤压 Crush                    | Z6~Z10<br>X6~X10         | 通过 Pass       |
| 过度充电 Overcharge             | Z11~Z14<br>X11~X14       | 通过 Pass       |
| 强制放电 Forced discharge       | Z15~Z24<br>X15~X24       | 通过 Pass       |

送检样品符合《联合国试验和标准手册》(ST/SG/AC.10/11/Rev.7/Amend1), 38.3 章的要求。

The samples submitted for inspection meet the requirements of the "United Nations Manual of Tests and Criteria" (ST/SG/AC.10/11/Rev.7/Amend1), Chapter 38.3

|                  |     |                    |    |                    |    |
|------------------|-----|--------------------|----|--------------------|----|
| 主检人<br>Tested by | 肖旭东 | 审核人<br>Reviewed by | 王程 | 批准人<br>Approved by | 王彬 |
|------------------|-----|--------------------|----|--------------------|----|

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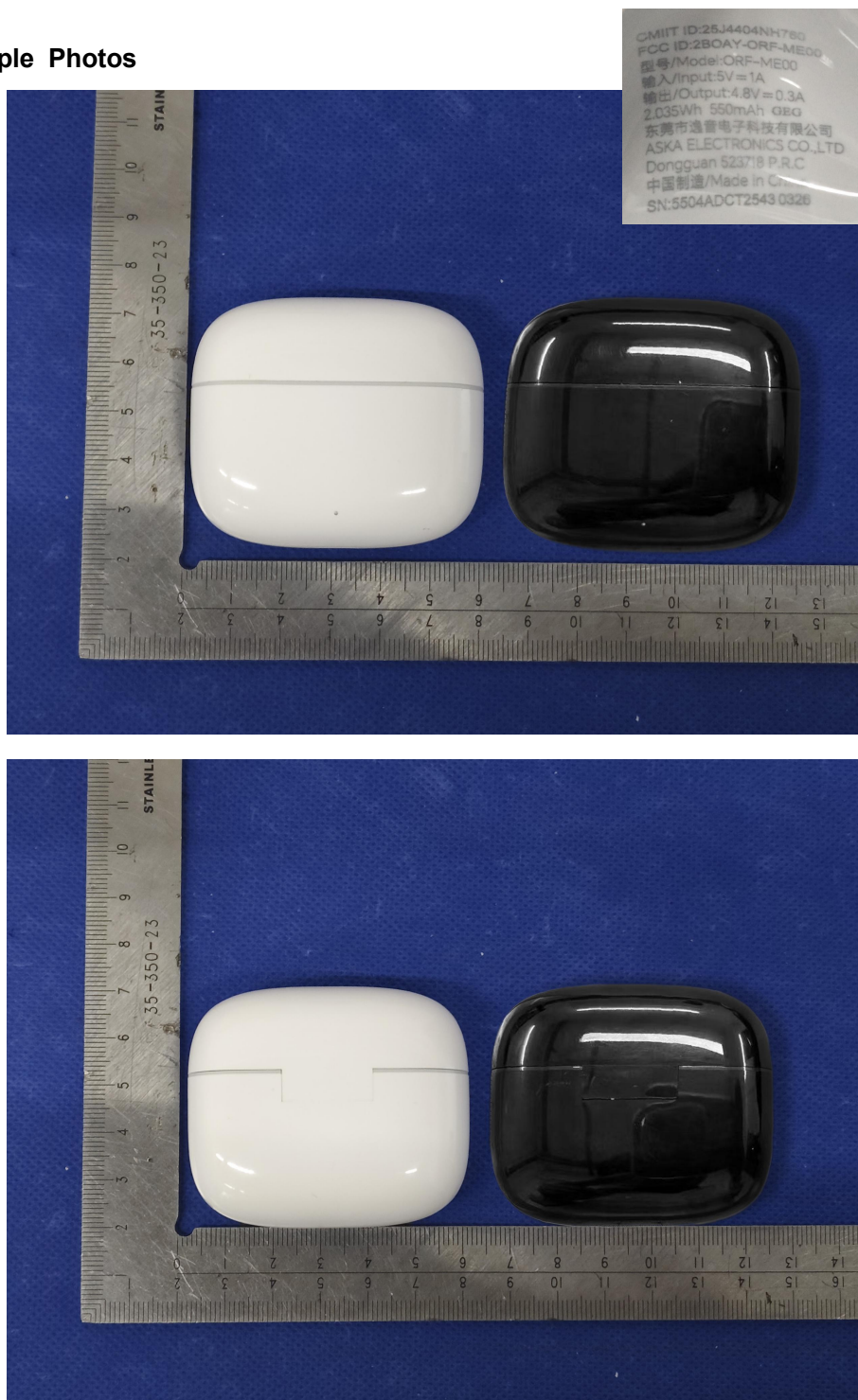
## 样品描述及说明 Description of the sample

|                  |                                                                                                                                                                |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Z1~Z5<br>Z11~Z14 | 第1个交替充电放电周期完全充电状态的电池;<br>Battery in full charge state during the first charge-discharge cycle;                                                                 |
| X1-X5<br>X11~X14 | 第25个交替充电放电周期结束后完全充电状态的电池;<br>Battery in full charge state during the 25th charge-discharge cycle;                                                              |
| Z6~Z10           | 第1个交替充电放电周期完全充电状态电芯容量设计值50%的电芯;<br>The first charge and discharge cycle 50% of the battery cell with rated capacity state;<br>第25个交替充电放电周期完全充电状态电芯容量设计值50%的电芯; |
| X6-X10           | The 25th cycle of charging and discharging 50% of the battery cell in rated capacity state;                                                                    |
| Z15~Z24          | 第 1 个交替充电放电周期完全放电状态的电芯;<br>Cells at first cycle in fully discharged states;                                                                                    |
| X15~X24          | 第25个交替充电放电周期结束后完全放电状态的电芯;<br>Cells after 25 cycles ending in fully discharge states.                                                                           |

## 可能的试验情况判定 Test case verdicts:

|                                                       |                     |
|-------------------------------------------------------|---------------------|
| —要求不适用本产品 Test case does not apply to the test object | N/A(Not applicable) |
| —试验结果符合要求 Test item does meet the requirement         | P(ass)              |
| —试验结果不符合要求 Test item does not meet the requirement    | F(ail)              |

#### 4、样品图片 Sample Photos



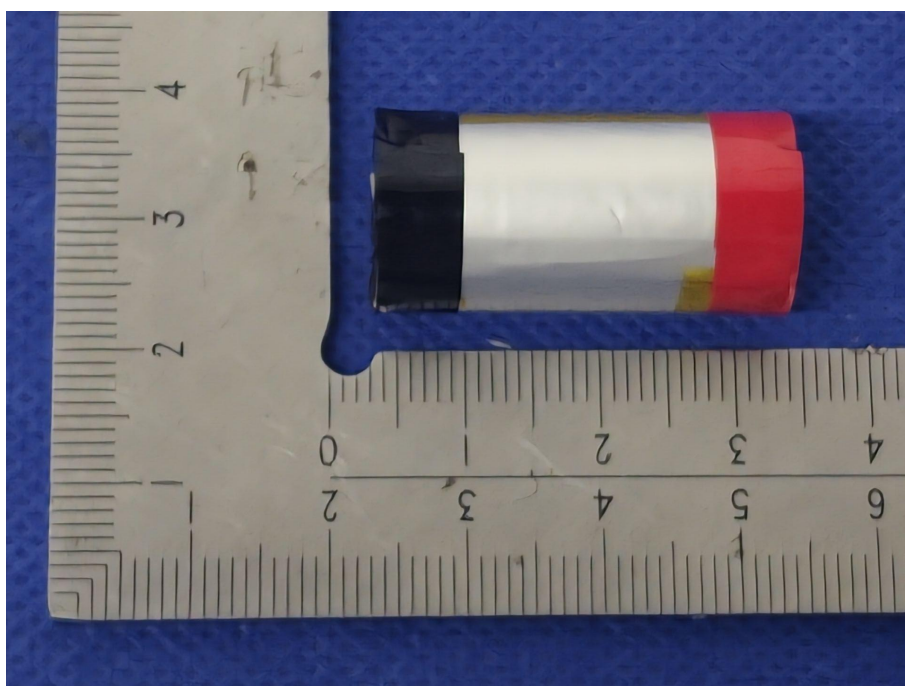
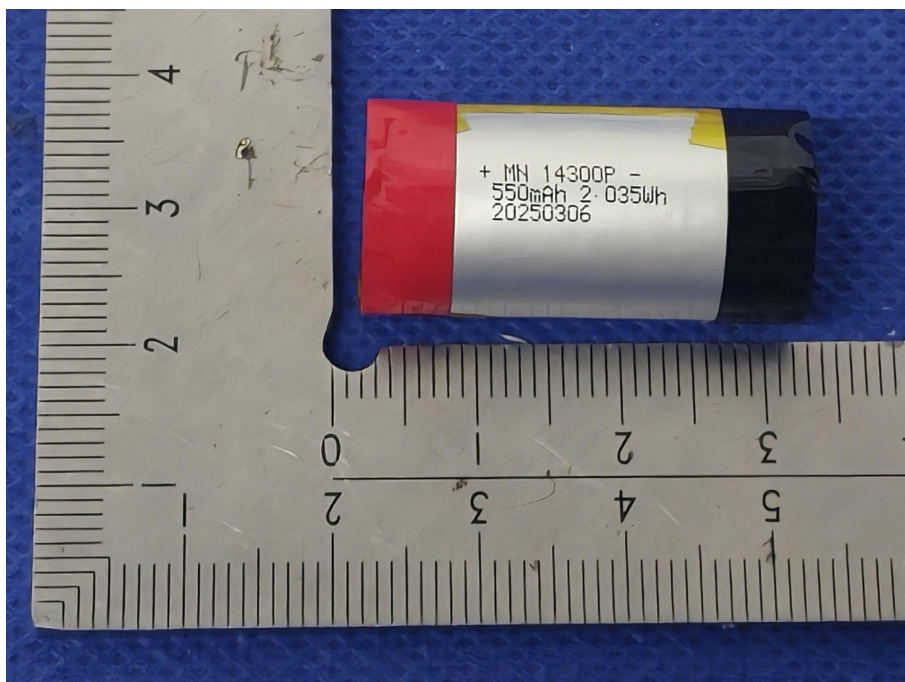
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本报告仅对送检样品负责

The test report is valid for the tested samples only

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## 5、测试方法及判定 Test Method And Verdict

| 章节<br>Clause | 标准要求<br>Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 测试结果<br>Result                                                                                        | 判定<br>Verdict |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------|
| 38.3.4.1     | <b>测试 1: 高度模拟</b><br><b>Test 1: Altitude simulation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 见表 1<br>See Table 1                                                                                   | P             |
|              | <p>试验电池和电池组应压力不大于11.6kpa和环境温度为20±5℃的条件下贮存不少于6个小时。</p> <p>Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hour at ambient temperature (20±5℃)</p> <p>要求电池和电池组无渗漏、无排气、无解体、无破裂和无起火, 并且每个试验电池或电池组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%。有关电压的要求不适用于完全放电状态的试验电池和电池组。</p> <p>Cells and batteries meet this requirement if there is no leakage, no venting, no disassemble, 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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>无渗漏, 无排气, 无解体, 无破裂和无起火。</p> <p>No leakage, no venting, no disassemble, no rupture and no fire.</p> | P             |
| 38.3.4.2     | <b>测试 2: 温度试验</b><br><b>Test 2: Thermal test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 见表 2<br>See Table 2                                                                                   | P             |
|              | <p>试验电池和电池组先在试验温度等于72℃±2℃的条件下存放至少6小时, 接着再在试验温度等于-40℃±2℃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, 接着将所有试验电池和电池组在环境温度(20℃±5℃)下存放24小时。对于大型电池和电池组, 暴露于极端试验温度的时间至少应为12小时。</p> <p>Test cells and batteries are to be stored for at least six hours at a test temperature equal to 72±2℃, followed by storage for at least six hours at a test temperature equal to -40±2℃. 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℃). For large cells and batteries the duration of exposure to the test temperature extremes should be at least 12 hours.</p> <p>要求电池和电池组无渗漏、无排气、无解体、无破裂和无起火, 并且每个试验电池或电池组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%。有关电压的要求不适用于完全放电状态的试验电池和电池组。</p> <p>Cells and batteries meet this requirement if there is no leakage, no venting, no disassemble, 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</p> | <p>无渗漏, 无排气, 无解体, 无破裂和无起火。</p> <p>No leakage, no venting, no disassemble, no rupture and no fire.</p> | P             |

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| 章节<br>Clause | 标准要求<br>Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 测试结果<br>Result                                                                                     | 判定<br>Verdict |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------|
|              | discharged states.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                    |               |
| 38.3.4.3     | <b>测试3: 振动</b><br><b>Test 3: Vibration</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 见表 3<br>See Table 3                                                                                | P             |
|              | <p>电池和电池组紧固于振动机平台，但不得造成电池变形，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 赫兹和 200 赫兹之间，再回到 7 赫兹，跨度为 15 分钟。这一振动过程须对三个互相垂直的电池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。</p> <p>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.</p> <p>作对数式频率扫描，对总质量不足 12 千克的电池和电池组（电池和小型电池组），和对 12 千克及更大的电池组（大型电池组）有所不同。</p> <p>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).</p> <p>对电池和小型电池组：从 7 赫兹开始，保持 <math>1g_n</math> 的最大加速度，直到频率达到 18 赫兹。然后将振幅保持在 0.8 毫米（总偏移 1.6 毫米），并增加频率直到最大加速度达到 <math>8g_n</math>（频率约为 50 赫兹）。将最大加速度保持在 <math>8g_n</math> 直到频率增加到 200 赫兹。</p> <p>For cells and small batteries: from 7 Hz a peak acceleration of <math>1g_n</math> 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 <math>8g_n</math> occurs (approximately 50 Hz). A peak acceleration of <math>8g_n</math> is then maintained until the frequency is increased to 200 Hz.</p> <p>对大型电池组：从 7 赫兹开始，保持 <math>1g_n</math> 的最大加速度，直到频率达到 18 赫兹。然后将振幅保持在 0.8 毫米（总偏移 1.6 毫米），并增加频率直到最大加速度达到 <math>2g_n</math>（频率约为 25 赫兹）。将最大加速度保持在 <math>2g_n</math> 直到频率增加到 200 赫兹。</p> <p>For large batteries: from 7 Hz to a peak acceleration of <math>1g_n</math> 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 <math>2g_n</math> occurs (approximately 25 Hz). A peak acceleration of <math>2g_n</math> is then maintained until the frequency is increased to 200 Hz.</p> <p>要求电池和电池组试验中和试验后无渗漏、无排气、无解体、无破裂</p> | <p>无渗漏，无排气，无解体，无破裂和无起火。</p> <p>No leakage, no venting, no disassemble, no rupture and no fire.</p> | P             |

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| 章节<br>Clause            | 标准要求<br>Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 测试结果<br>Result           | 判定<br>Verdict                        |                          |                         |                                                                                                                                                                                       |            |                         |                                                                                                                                                                                   |              |                                                                                         |   |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------|--------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------|---|
|                         | <p>和无起火，并且每个试验电池或电池组在第三个垂直安装方位上的试验后立即测得的开路电压不小于在进行这一试验前电压的 90%。有关电压的要求不适用于完全放电状态的试验电池和电池组。</p> <p>Cells and batteries meet this requirement if there is no leakage, no venting, no disassemble, 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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |                                      |                          |                         |                                                                                                                                                                                       |            |                         |                                                                                                                                                                                   |              |                                                                                         |   |
| 38.3.4.4                | <p><b>测试4：冲击</b><br/><b>Test 4: Shock</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 见表 4<br>See Table 4      | P                                    |                          |                         |                                                                                                                                                                                       |            |                         |                                                                                                                                                                                   |              |                                                                                         |   |
|                         | <p>试验电池和电池组用坚硬支架紧固在试验装置上，支架支撑着每个试验电池组的所有安装面。</p> <p>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.</p> <p>每个电池需经受最大加速度150g<sub>n</sub>和脉冲持续时间6毫秒的半正弦波冲击。针对大型电池需经受最大加速度50g<sub>n</sub>和脉冲持续时间11毫秒的半正弦波冲击。</p> <p>Each cell shall be subjected to a half-sine shock of peak acceleration of 150g<sub>n</sub> and pulse duration of 6 milliseconds. Alternatively, large cells may be subjected to a half-sine shock of peak acceleration of 50g<sub>n</sub> and pulse duration of 11 milliseconds.</p> <p>每个电池组应根据电池组的质量而受到峰值加速度的半正弦波冲击。对于小型电池组的脉冲持续时间应6毫秒，对于大型电池组的脉冲持续时间应为11毫秒，下面的公式用于计算适当的最小峰值加速度。</p> <table><tr><th>电池<br/>Battery</th><th>最小峰值加速度<br/>Minimum peak acceleration</th><th>脉冲持续时间<br/>Pulse duration</th></tr><tr><td>小型电池<br/>Small batteries</td><td>150g<sub>n</sub> 或公式结果中的较小值<br/>150g<sub>n</sub> or result of formula<br/><math display="block">\text{Acceleration (g}_n\text{)}=\sqrt{\left(\frac{100850}{\text{mass}^*}\right)}</math><br/>whichever is smaller</td><td>6毫秒<br/>6ms</td></tr><tr><td>大型电池<br/>Large batteries</td><td>50g<sub>n</sub> 或公式结果中的较小值<br/>50g<sub>n</sub> or result of formula<br/><math display="block">\text{Acceleration (g}_n\text{)}=\sqrt{\left(\frac{3000}{\text{mass}^*}\right)}</math><br/>whichever is smaller</td><td>11毫秒<br/>11ms</td></tr></table> <p>* 质量单位用千克计算 Mass is expressed in kilograms.</p> <p>Each battery shall be subjected to a half-sine shock of peak acceleration depending on the mass of the battery. The pulse duration</p> | 电池<br>Battery            | 最小峰值加速度<br>Minimum peak acceleration | 脉冲持续时间<br>Pulse duration | 小型电池<br>Small batteries | 150g <sub>n</sub> 或公式结果中的较小值<br>150g <sub>n</sub> or result of formula<br>$\text{Acceleration (g}_n\text{)}=\sqrt{\left(\frac{100850}{\text{mass}^*}\right)}$<br>whichever is smaller | 6毫秒<br>6ms | 大型电池<br>Large batteries | 50g <sub>n</sub> 或公式结果中的较小值<br>50g <sub>n</sub> or result of formula<br>$\text{Acceleration (g}_n\text{)}=\sqrt{\left(\frac{3000}{\text{mass}^*}\right)}$<br>whichever is smaller | 11毫秒<br>11ms | 无渗漏，无排气，无解体，无破裂和无起火。<br>No leakage, no venting, no disassemble, no rupture and no fire. | P |
| 电池<br>Battery           | 最小峰值加速度<br>Minimum peak acceleration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 脉冲持续时间<br>Pulse duration |                                      |                          |                         |                                                                                                                                                                                       |            |                         |                                                                                                                                                                                   |              |                                                                                         |   |
| 小型电池<br>Small batteries | 150g <sub>n</sub> 或公式结果中的较小值<br>150g <sub>n</sub> or result of formula<br>$\text{Acceleration (g}_n\text{)}=\sqrt{\left(\frac{100850}{\text{mass}^*}\right)}$<br>whichever is smaller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6毫秒<br>6ms               |                                      |                          |                         |                                                                                                                                                                                       |            |                         |                                                                                                                                                                                   |              |                                                                                         |   |
| 大型电池<br>Large batteries | 50g <sub>n</sub> 或公式结果中的较小值<br>50g <sub>n</sub> or result of formula<br>$\text{Acceleration (g}_n\text{)}=\sqrt{\left(\frac{3000}{\text{mass}^*}\right)}$<br>whichever is smaller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 11毫秒<br>11ms             |                                      |                          |                         |                                                                                                                                                                                       |            |                         |                                                                                                                                                                                   |              |                                                                                         |   |

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| 章节<br>Clause | 标准要求<br>Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 测试结果<br>Result                                                                                     | 判定<br>Verdict |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------|
|              | <p>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.</p> <p>每个电池或电池组需在三个互相垂直的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。</p> <p>Each cell or battery is subjected to three shocks in the positive direction followed by three shocks in the negative direction of each of three mutually perpendicular mounting positions of the cell for a total of 18 shocks.</p> <p>要求电池和电池组无渗漏、无排气、无解体、无破裂和无起火，并且每个试验电池或电池组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%。有关电压的要求不适用于完全放电状态的试验电池和电池组。</p> <p>Cells and batteries meet this requirement if there is no leakage, no venting, no disassemble, 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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                    |               |
| 38.3.4.5     | <p><b>测试 5: 外部短路</b><br/><b>Test 5: External Short Circuit</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>见表 5<br/>See Table 5</p>                                                                        | P             |
|              | <p>待测试的电池或电池组应加热一段时间，以使其外表面温度达到均匀稳定的 <math>57\pm4^{\circ}\text{C}</math> 的温度。加热时间取决于电池或电池组的大小和设计，并应进行评估和记录。如果这种评估是不可行的，对于小型电池和小型电池组至少在 <math>57\pm4^{\circ}\text{C}</math> 的环境下存放 6 小时，对于大型电池和大型电池组至少在 <math>57\pm4^{\circ}\text{C}</math> 的环境下存放 12 小时。然后电池或电池组在 <math>57\pm4^{\circ}\text{C}</math> 的环境中，应接受一个外部总阻值小于 0.1 欧姆的短路条件。</p> <p>The cell or battery to be tested shall be heated for a period of time necessary to reach a homogeneous stabilized temperature of <math>57\pm4^{\circ}\text{C}</math>, 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 <math>57\pm4^{\circ}\text{C}</math> shall be subjected to one short circuit condition with a total external resistance of less than 0.1 ohm.</p> <p>这一短路条件应在电池或电池组的外壳温度回到 <math>57\pm4^{\circ}\text{C}</math> 后继续短路 1 小时，或对于大型电池组其外壳温度已下降了一半的最大升温，并保持低于该值。短路和冷却过程至少在环境温度中进行。</p> <p>This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to <math>57 \pm 4^{\circ}\text{C}</math>, 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. The short circuit and cooling down phases shall be</p> | <p>无渗漏，无排气，无解体，无破裂和无起火。</p> <p>No leakage, no venting, no disassemble, no rupture and no fire.</p> | P             |

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| 章节<br>Clause | 标准要求<br>Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 测试结果<br>Result                 | 判定<br>Verdict |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------|
|              | <p>conducted at least at ambient temperature.</p> <p>要求电池和电池组外壳温度不超过 170℃，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。</p> <p>Cells and batteries meet this requirement if their external temperature does not exceed 170℃ and there is no disassemble, no rupture and no fire within six hours of this test.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |               |
| 38.3.4.6     | <p><b>测试 6: 撞击/挤压</b></p> <p><b>Test 6: Impact / Crush</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>见表 6</p> <p>See Table 6</p> | P             |
|              | <p><b>撞击</b>（适用于直径大于等于 18 毫米的圆柱形电池）</p> <p><b>Impact</b> (applicable to cylindrical cells not less than 18mm in diameter)</p> <p>试样电池或元件电池放在平坦光滑的表面上，一根 316 型不锈钢棒横放在试样中心，钢棒直径 15.8 毫米±0.1 毫米，长度至少 6 厘米，或电池最长端的尺度，取二者之长者。将一块 9.1 千克±0.1 千克的重锤从 61±2.5 厘米高处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。</p> <p>The test sample cell or component cell is to be placed on a flat smooth surface. A 15.8mm±0.1mm diameter, at least 6cm 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 ± 0.1kg mass is to be dropped from a height of 61 ± 2.5 cm at the intersection of the bar and sample in a controlled manner using a near friction less, 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.</p> <p>接受撞击的试样，纵轴应与平坦表面平行并与横放在试样中心的直径 15.8±0.1 毫米弯曲表面的纵轴垂直。每一试样只经受一次撞击。</p> <p>The test samples is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the 15.8mm±0.1mm diameter curved surface lying across the centre of the test samples. Each sample is to be subjected to only a single impact.</p> <p>要求电池和电池组外壳温度不超过 170℃，并且在试验过程中及试验后 6 小时内无解体，无起火。</p> <p>Cells and component cells meet this requirement if their external temperature does not exceed 170℃ and there is no disassemble and no fire during the test and within six hours after this test.</p> | N/A                            | N/A           |

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| 章节<br>Clause | 标准要求<br>Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 测试结果<br>Result                                                     | 判定<br>Verdict |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|
|              | <p><b>挤压</b>（适用于棱柱形、袋装、硬币/纽扣电池和直径小于 18 毫米的圆柱形电池）</p> <p><b>Crush</b> (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18mm in diameter)</p> <p>将电池或元件电池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厘米/秒。挤压持续进行，直到出现以下三种情况之一：</p> <p>(a) 施加的力量达到13千牛±0.78千牛；</p> <p>(b) 电池的电压下降至少100毫伏；或</p> <p>(c) 电池变形达原始厚度的50%或以上。</p> <p>A cell or component cell is to be crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1.5cm/s at the first point of contact. The crushing is to be continued until the first of the three options below is reached.</p> <p>(a) The applied force reaches 13kN±0.78kN;</p> <p>(b) The voltage of the cell drops by at least 100mV; or</p> <p>(c) The cell is deformed by 50% or more of its original thickness.</p> <p>一旦达到最大压力、电压下降 100 毫伏或更多，或电池变形至少达原厚度的 50%，即可解除压力。</p> <p>Once the maximum pressure has been obtained, the voltage drops by 100mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released.</p> <p>棱柱形或袋装电池应从最宽的一面施压。纽扣/硬币形电池应从其平坦表面施压。圆柱形电池应从与纵轴垂直的方向施压。</p> <p>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.</p> <p>每个试样电池或元件电池只做一次挤压试验。试样应继续观察 6 小时。试验应使用之前未做过其他试验的电池或元件电池进行。</p> <p>Each test cell or component cell is to be subjected to one crush only. The test Samples 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.</p> <p>要求电池和电池组外壳温度不超过170℃，并且在试验过程中及试验后6小时内无解体，无起火。</p> <p>Cells and component cells meet this requirement if their external temperature does not exceed 170℃ and there is no disassemble and no fire during the test and within six hours after this test.</p> | <p>无解体，无破裂，无起火。</p> <p>No disassemble, no rupture and no fire.</p> | P             |
| 38.3.4.7     | <p><b>测试 7：过充电</b></p> <p><b>Test 7: Overcharge</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>见表 7</p> <p>See Table 7</p>                                     | P             |

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| 章节<br>Clause | 标准要求<br>Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 测试结果<br>Result                                      | 判定<br>Verdict |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------|
|              | <p>充电电流必须是制造商建议的最大持续充电电流的两倍。试验的最小电压如下:</p> <p>(a) 制造商建议的充电电压不大于18伏时, 试验的最小电压应是电池组最大充电电压的两倍或22伏两者中的较小者;</p> <p>(b) 制造商建议的充电电压大于18伏时, 试验的最小电压应为最大充电电压的1.2倍。</p> <p>试验应在环境温度下进行, 进行试验的时间应为 24 小时。</p> <p>The charge current shall be twice the manufacturer's recommended maximum continuous charge current. The minimum voltage of the test shall be as follows:</p> <p>(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.</p> <p>(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.</p> <p>Tests are to be conducted at ambient temperature; the duration of the test shall be 24 hours.</p> | <p>无分解, 无起火。</p> <p>No disassemble and no fire.</p> | P             |
| 38.3.4.8     | <p><b>测试 8: 强制放电</b></p> <p><b>Test 8: Forced discharge</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>见表 8</p> <p>See Table 8</p>                      | P             |
|              | <p>每个电池应在环境温度下与 12V 直流电源上进行强制放电, 此直流电源串联在起始电流等于制造商给定的最大放电电流条件下强制放电。</p> <p>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.</p> <p>将适当大小和额定值的电阻负荷与试验电池串联, 计算得出给定的放电电流。对每个电池进行强制放电, 放电时间 (小时) 应等于其额定容量除以初始试验电流 (安培)。</p> <p>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 shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere).</p>                                                                                                                                              | <p>无分解, 无起火。</p> <p>No disassemble and no fire.</p> | P             |
|              | <p>要求原电池或充电电池在试验过程中和试验后 7 天内无解体, 无起火。</p> <p>Primary or rechargeable cells meet this requirement if there is no disassemble and no fire during the test and within seven days after the test.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                     |               |

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## 6、测试数据 Test Data

| 表 1<br>Table 1                                                                                     | 高度模拟<br>Altitude simulation |                   |                          |                 |                   |                             | P                                                                                     |
|----------------------------------------------------------------------------------------------------|-----------------------------|-------------------|--------------------------|-----------------|-------------------|-----------------------------|---------------------------------------------------------------------------------------|
| 样品<br>编号<br>Sample<br>No.                                                                          | 质量 Mass (g)                 |                   | 质量亏损<br>Mass<br>loss (%) | 电压 Voltage (V)  |                   | 电压亏损<br>Voltage<br>loss (%) | 有无渗漏，排气，<br>解体，破裂和起火<br>Whether leakage,<br>venting,<br>disassemble,<br>rupture, fire |
|                                                                                                    | 测试前<br>Pre-test             | 测试后<br>After test |                          | 测试前<br>Pre-test | 测试后<br>After test |                             |                                                                                       |
| Z1                                                                                                 | 38.300                      | 38.300            | 0.000                    | 5.12            | 5.12              | 0.00                        | O                                                                                     |
| Z2                                                                                                 | 38.053                      | 38.053            | 0.000                    | 5.12            | 5.12              | 0.00                        | O                                                                                     |
| Z3                                                                                                 | 38.112                      | 38.112            | 0.000                    | 5.13            | 5.13              | 0.00                        | O                                                                                     |
| Z4                                                                                                 | 38.161                      | 38.160            | 0.003                    | 5.12            | 5.12              | 0.00                        | O                                                                                     |
| Z5                                                                                                 | 38.152                      | 38.152            | 0.000                    | 5.13            | 5.12              | 0.19                        | O                                                                                     |
| X1                                                                                                 | 38.130                      | 38.130            | 0.000                    | 5.12            | 5.12              | 0.00                        | O                                                                                     |
| X2                                                                                                 | 38.144                      | 38.144            | 0.000                    | 5.13            | 5.13              | 0.00                        | O                                                                                     |
| X3                                                                                                 | 38.142                      | 38.142            | 0.000                    | 5.13            | 5.13              | 0.00                        | O                                                                                     |
| X4                                                                                                 | 38.128                      | 38.128            | 0.000                    | 5.12            | 5.12              | 0.00                        | O                                                                                     |
| X5                                                                                                 | 38.131                      | 38.131            | 0.000                    | 5.13            | 5.13              | 0.00                        | O                                                                                     |
| 注: O-无泄漏、无排气、无解体、无破裂、无起火。<br>Note: O-No leakage, no venting, no disassembly, no rupture & no fire. |                             |                   |                          |                 |                   |                             |                                                                                       |

| 表 2<br>Table 2            | 温度试验<br>Thermal test |                   |                          |                 |                   |                             | P                                                                                     |
|---------------------------|----------------------|-------------------|--------------------------|-----------------|-------------------|-----------------------------|---------------------------------------------------------------------------------------|
| 样品<br>编号<br>Sample<br>No. | 质量 Mass (g)          |                   | 质量亏损<br>Mass<br>loss (%) | 电压 Voltage (V)  |                   | 电压亏损<br>Voltage<br>loss (%) | 有无渗漏，排气，<br>解体，破裂和起火<br>Whether leakage,<br>venting,<br>disassemble,<br>rupture, fire |
|                           | 测试前<br>Pre-test      | 测试后<br>After test |                          | 测试前<br>Pre-test | 测试后<br>After test |                             |                                                                                       |
| Z1                        | 38.300               | 38.293            | 0.018                    | 5.12            | 5.10              | 0.39                        | O                                                                                     |
| Z2                        | 38.053               | 38.047            | 0.016                    | 5.12            | 5.11              | 0.20                        | O                                                                                     |
| Z3                        | 38.112               | 38.105            | 0.018                    | 5.13            | 5.12              | 0.19                        | O                                                                                     |
| Z4                        | 38.160               | 38.153            | 0.018                    | 5.12            | 5.11              | 0.20                        | O                                                                                     |
| Z5                        | 38.152               | 38.145            | 0.018                    | 5.12            | 5.10              | 0.39                        | O                                                                                     |
| X1                        | 38.130               | 38.124            | 0.016                    | 5.12            | 5.11              | 0.20                        | O                                                                                     |
| X2                        | 38.144               | 38.138            | 0.016                    | 5.13            | 5.12              | 0.19                        | O                                                                                     |
| X3                        | 38.142               | 38.135            | 0.018                    | 5.13            | 5.12              | 0.19                        | O                                                                                     |
| X4                        | 38.128               | 38.121            | 0.018                    | 5.12            | 5.11              | 0.20                        | O                                                                                     |

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|                                                                                                    |        |        |       |      |      |      |   |
|----------------------------------------------------------------------------------------------------|--------|--------|-------|------|------|------|---|
| X5                                                                                                 | 38.131 | 38.124 | 0.018 | 5.13 | 5.12 | 0.19 | O |
| 注: O-无泄漏、无排气、无解体、无破裂、无起火。<br>Note: O-No leakage, no venting, no disassembly, no rupture & no fire. |        |        |       |      |      |      |   |

| 表 3<br>Table 3                                                                                     | 振动<br>Vibration |                   |                          |                 |                   |                             | P                                                                                       |
|----------------------------------------------------------------------------------------------------|-----------------|-------------------|--------------------------|-----------------|-------------------|-----------------------------|-----------------------------------------------------------------------------------------|
| 样品<br>编号<br>Sample<br>No.                                                                          | 质量 Mass (g)     |                   | 质量亏损<br>Mass<br>loss (%) | 电压 Voltage (V)  |                   | 电压亏损<br>Voltage<br>loss (%) | 有无渗漏, 排气,<br>解体, 破裂和起火<br>Whether leakage,<br>venting,<br>disassemble,<br>rupture, fire |
|                                                                                                    | 测试前<br>Pre-test | 测试后<br>After test |                          | 测试前<br>Pre-test | 测试后<br>After test |                             |                                                                                         |
| Z1                                                                                                 | 38.293          | 38.293            | 0.000                    | 5.10            | 5.10              | 0.00                        | O                                                                                       |
| Z2                                                                                                 | 38.047          | 38.047            | 0.000                    | 5.11            | 5.11              | 0.00                        | O                                                                                       |
| Z3                                                                                                 | 38.105          | 38.105            | 0.000                    | 5.12            | 5.12              | 0.00                        | O                                                                                       |
| Z4                                                                                                 | 38.153          | 38.152            | 0.003                    | 5.11            | 5.11              | 0.00                        | O                                                                                       |
| Z5                                                                                                 | 38.145          | 38.145            | 0.000                    | 5.10            | 5.10              | 0.00                        | O                                                                                       |
| X1                                                                                                 | 38.124          | 38.124            | 0.000                    | 5.11            | 5.11              | 0.00                        | O                                                                                       |
| X2                                                                                                 | 38.138          | 38.138            | 0.000                    | 5.12            | 5.12              | 0.00                        | O                                                                                       |
| X3                                                                                                 | 38.135          | 38.135            | 0.000                    | 5.12            | 5.11              | 0.20                        | O                                                                                       |
| X4                                                                                                 | 38.121          | 38.121            | 0.000                    | 5.11            | 5.11              | 0.00                        | O                                                                                       |
| X5                                                                                                 | 38.124          | 38.124            | 0.000                    | 5.12            | 5.12              | 0.00                        | O                                                                                       |
| 注: O-无泄漏、无排气、无解体、无破裂、无起火。<br>Note: O-No leakage, no venting, no disassembly, no rupture & no fire. |                 |                   |                          |                 |                   |                             |                                                                                         |

| 表 4<br>Table 4            | 冲击 Shock            |                   |                          |                 |                      |                             | P                                                                                        |
|---------------------------|---------------------|-------------------|--------------------------|-----------------|----------------------|-----------------------------|------------------------------------------------------------------------------------------|
| 样品<br>编号<br>Sample<br>No. | 质量 Mass (g)         |                   | 质量亏损<br>Mass<br>loss (%) | 电压 Voltage (V)  |                      | 电压亏损<br>Voltage<br>loss (%) | 有无渗漏, 排气, 解<br>体, 破裂和起火<br>Whether leakage,<br>venting,<br>disassemble,<br>rupture, fire |
|                           | 测试前<br>Pre-<br>test | 测试后<br>After test |                          | 测试前<br>Pre-test | 测试后<br>After<br>test |                             |                                                                                          |
| Z1                        | 38.293              | 38.293            | 0.000                    | 5.10            | 5.10                 | 0.00                        | O                                                                                        |
| Z2                        | 38.047              | 38.046            | 0.003                    | 5.11            | 5.11                 | 0.00                        | O                                                                                        |
| Z3                        | 38.105              | 38.105            | 0.000                    | 5.12            | 5.12                 | 0.00                        | O                                                                                        |
| Z4                        | 38.152              | 38.152            | 0.000                    | 5.11            | 5.11                 | 0.00                        | O                                                                                        |
| Z5                        | 38.145              | 38.145            | 0.000                    | 5.10            | 5.10                 | 0.00                        | O                                                                                        |
| X1                        | 38.124              | 38.124            | 0.000                    | 5.11            | 5.11                 | 0.00                        | O                                                                                        |

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|                                                                                                    |        |        |       |      |      |      |   |
|----------------------------------------------------------------------------------------------------|--------|--------|-------|------|------|------|---|
| X2                                                                                                 | 38.138 | 38.137 | 0.003 | 5.12 | 5.12 | 0.00 | O |
| X3                                                                                                 | 38.135 | 38.135 | 0.000 | 5.11 | 5.11 | 0.00 | O |
| X4                                                                                                 | 38.121 | 38.121 | 0.000 | 5.11 | 5.11 | 0.00 | O |
| X5                                                                                                 | 38.124 | 38.124 | 0.000 | 5.12 | 5.11 | 0.20 | O |
| 注: O-无泄漏、无排气、无解体、无破裂、无起火。<br>Note: O-No leakage, no venting, no disassembly, no rupture & no fire. |        |        |       |      |      |      |   |

| 表 5<br>Table 5                                                                                     | 外短路<br>External short circuit      |                               | P                                                  |
|----------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------|----------------------------------------------------|
| 样品编号<br>Sample No.                                                                                 | 电路电阻<br>Resistance of circuit (mΩ) | 最高温度<br>Peak temperature (°C) | 有无解体, 破裂, 起火<br>Whether disassemble, rupture, fire |
| Z1                                                                                                 | 88                                 | 58.1                          | O                                                  |
| Z2                                                                                                 | 82                                 | 58.5                          | O                                                  |
| Z3                                                                                                 | 87                                 | 57.9                          | O                                                  |
| Z4                                                                                                 | 89                                 | 58.4                          | O                                                  |
| Z5                                                                                                 | 83                                 | 58.0                          | O                                                  |
| X1                                                                                                 | 84                                 | 57.9                          | O                                                  |
| X2                                                                                                 | 89                                 | 58.2                          | O                                                  |
| X3                                                                                                 | 88                                 | 58.4                          | O                                                  |
| X4                                                                                                 | 85                                 | 58.3                          | O                                                  |
| X5                                                                                                 | 82                                 | 58.0                          | O                                                  |
| 注: O-无泄漏、无排气、无解体、无破裂、无起火。<br>Note: O-No leakage, no venting, no disassembly, no rupture & no fire. |                                    |                               |                                                    |

| 表 6<br>Table 6     | 挤压 Crush                      | P                                     |
|--------------------|-------------------------------|---------------------------------------|
| 样品编号<br>Sample No. | 最高温度<br>Peak temperature (°C) | 有无解体, 起火<br>Whether disassemble, fire |
| Z6                 | 25.1                          | O                                     |
| Z7                 | 24.9                          | O                                     |
| Z8                 | 24.6                          | O                                     |
| Z9                 | 24.8                          | O                                     |
| Z10                | 25.4                          | O                                     |
| X6                 | 25.1                          | O                                     |

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|                                                                                                    |      |   |
|----------------------------------------------------------------------------------------------------|------|---|
| X7                                                                                                 | 24.9 | O |
| X8                                                                                                 | 25.3 | O |
| X9                                                                                                 | 25.0 | O |
| X10                                                                                                | 24.7 | O |
| 注: O-无泄漏、无排气、无解体、无破裂、无起火。<br>Note: O-No leakage, no venting, no disassembly, no rupture & no fire. |      |   |

| 表 7<br>Table 7                                                                                     | 过度充电<br>Overcharge                    | P |
|----------------------------------------------------------------------------------------------------|---------------------------------------|---|
| 样品编号<br>Sample No.                                                                                 | 有无解体, 起火<br>Whether disassemble, fire |   |
| Z11                                                                                                | O                                     |   |
| Z12                                                                                                | O                                     |   |
| Z13                                                                                                | O                                     |   |
| Z14                                                                                                | O                                     |   |
| X11                                                                                                | O                                     |   |
| X12                                                                                                | O                                     |   |
| X13                                                                                                | O                                     |   |
| X14                                                                                                | O                                     |   |
| 注: O-无泄漏、无排气、无解体、无破裂、无起火。<br>Note: O-No leakage, no venting, no disassembly, no rupture & no fire. |                                       |   |

| 表 8<br>Table 8     | 强制放电<br>Forced discharge              | P |
|--------------------|---------------------------------------|---|
| 样品编号<br>Sample No. | 有无解体, 起火<br>Whether disassemble, fire |   |
| Z15                | O                                     |   |
| Z16                | O                                     |   |
| Z17                | O                                     |   |
| Z18                | O                                     |   |
| Z19                | O                                     |   |
| Z20                | O                                     |   |
| Z21                | O                                     |   |
| Z22                | O                                     |   |
| Z23                | O                                     |   |
| Z24                | O                                     |   |
| X15                | O                                     |   |
| X16                | O                                     |   |

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|     |   |
|-----|---|
| X17 | O |
| X18 | O |
| X19 | O |
| X20 | O |
| X21 | O |
| X22 | O |
| X23 | O |
| X24 | O |

注: O-无泄漏、无排气、无解体、无破裂、无起火。

Note: O-No leakage, no venting, no disassembly, no rupture & no fire.

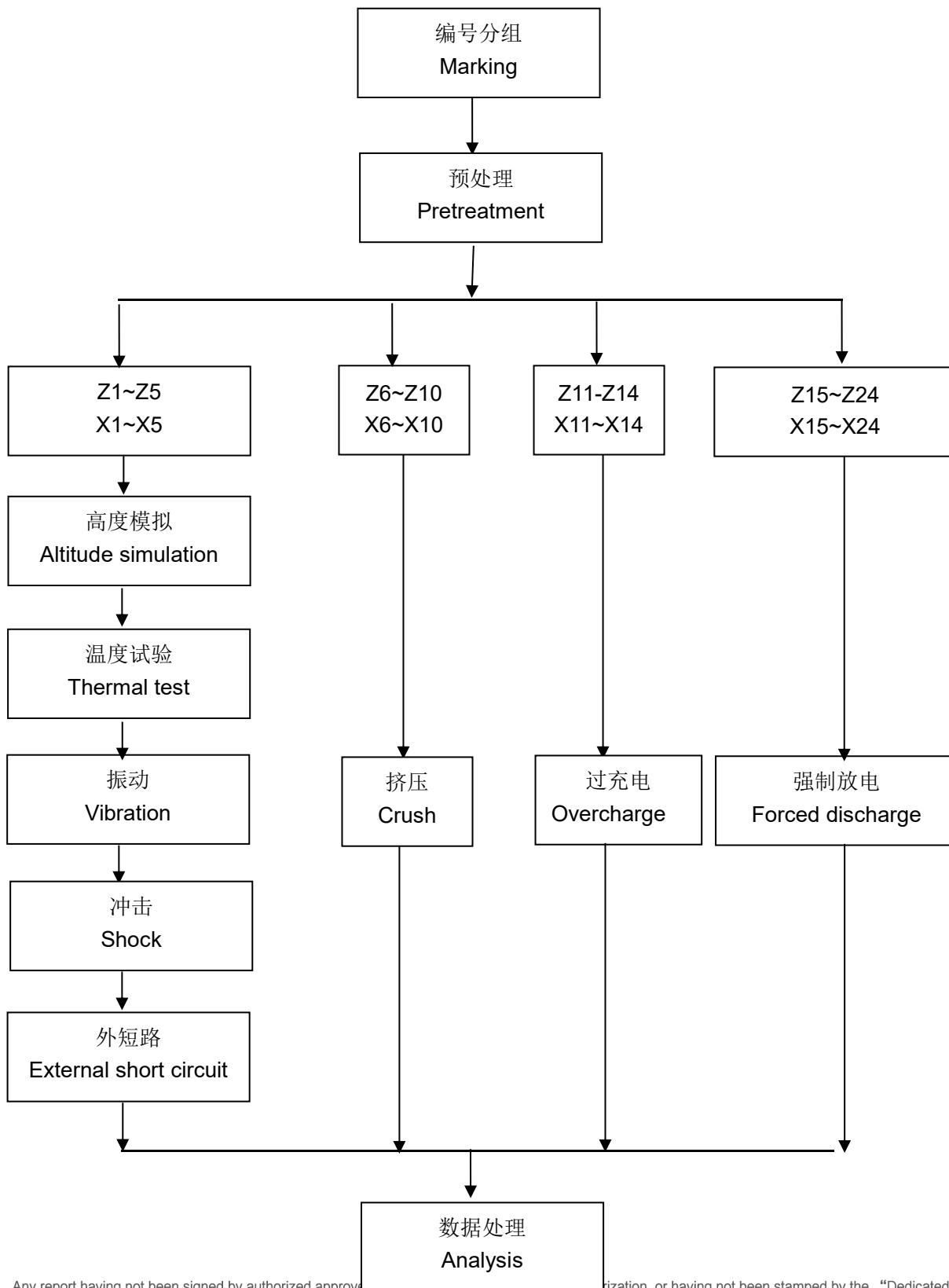
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## 7、流程图 Procedure Photo



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## 8、测试设备 Test equipment

| 序号<br>No                                                                                     | 名称<br>Equipment Name                       | 型号规格<br>Model No. | 设备编号<br>Equipment No. | 校准有效期至<br>Calibration<br>validity | 本次使用<br>Using (√) |
|----------------------------------------------------------------------------------------------|--------------------------------------------|-------------------|-----------------------|-----------------------------------|-------------------|
| 1                                                                                            | 精密天平<br>Electronic balance                 | SB3003            | AGC-BT-E145           | 2026-03-04                        | √                 |
| 2                                                                                            | 电子计数秤<br>Electronic counting scale         | ACS-30kg          | AGC-BT-E161           | 2026-03-04                        | ×                 |
| 3                                                                                            | 万用表<br>Digital multimeter                  | 117C              | AGC-BT-E154           | 2026-03-04                        | √                 |
| 4                                                                                            | 电池测试系统<br>Battery Testing System           | CT-4008-5V6A-S1   | AGC-BT-E062           | 2026-03-04                        | √                 |
| 5                                                                                            | 电池测试系统<br>Battery Testing System           | CT-4008-20V20A-NA | AGC-BT-E067           | 2026-03-04                        | √                 |
| 6                                                                                            | 电池测试系统<br>Battery Testing System           | CT-4004-60V20A-NA | AGC-BT-E081)          | 2026-03-04                        | ×                 |
| 7                                                                                            | 移动电源测试系统<br>Mobile power testing system    | CT-ZWJ-4S-T-1U    | AGC-BT-E084           | 2026-03-04                        | ×                 |
| 8                                                                                            | 真空试验箱<br>Vacuum Tester                     | GX-3020-ZC1M      | AGC-BT-E133           | 2025-07-04                        | √                 |
| 9                                                                                            | 快速温变试验箱<br>Rapid Temperature Change Tester | EAT408-40A5       | AGC-BT-E123           | 2026-03-04                        | √                 |
| 10                                                                                           | 振动试验台<br>Vibration test instrument         | GX-600-ZD         | AGC-BT-E163           | 2025-07-18                        | √                 |
| 11                                                                                           | 加速度冲击试验机<br>Acceleration impact tester     | GX-E099-NE        | AGC-BT-E162           | 2026-03-26                        | √                 |
| 12                                                                                           | 温控型电池短路试验机<br>Battery Short-circuit Tester | GX-6055-B5        | AGC-BT-E139           | 2025-07-04                        | √                 |
| 13                                                                                           | 电池挤压试验机<br>Battery Crush Tester            | GX-5067-CSM       | AGC-BT-E126           | 2026-03-06                        | √                 |
| 14                                                                                           | 重物冲击试验机<br>Battery Impact Tester           | GX-5066           | AGC-BT-E125           | 2026-03-04                        | ×                 |
| 15                                                                                           | 数据采集仪<br>Data Acquisition Instrument       | 34970A            | AGC-BT-E144           | 2026-03-04                        | √                 |
| 16                                                                                           | 直流稳压电源<br>DC power supply                  | TPR-6410D         | AGC-BT-E054           | 2026-03-04                        | √                 |
| <div> <div>√ Used equipment 使用设备</div> <div>×</div> <div>Unused equipment 未使用设备</div> </div> |                                            |                   |                       |                                   |                   |

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