

# 检 验 报 告

## Test Report

产 品 名 称 : 锂离子聚合物电池

Sample Name : Rechargeable Li-ion Polymer Battery

型 号 : HB566892EJW-A

Model/ Type : HB566892EJW-A

委托单位 : 重庆冠宇电池有限公司

Client : Chongqing CosMX Battery Co., Ltd.

珠海冠宇电池股份有限公司测试中心  
Test Center of Zhuhai CosMX Battery Co., Ltd.



## Applicant information

## 申请资料

|                                                                                                                                                                                           |                                                                                                             |                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Name of samples:<br>样品名称:                                                                                                                                                                 | Rechargeable Li-ion Polymer Battery<br>锂离子聚合物电池                                                             |                                                                                                                                           |
| Type/Model:<br>型号规格:                                                                                                                                                                      | HB566892EJW-A 3.92V 6210mAh/24.35Wh( Rated ) 6400mAh/25.09Wh (Typical )                                     |                                                                                                                                           |
| Lithium content::<br>锂含量:                                                                                                                                                                 | —                                                                                                           |                                                                                                                                           |
| Commission by:<br>委托单位:                                                                                                                                                                   | Chongqing CosMX Battery Co., Ltd.<br>重庆冠宇电池有限公司                                                             |                                                                                                                                           |
| Commissioner address:<br>委托单位地址:                                                                                                                                                          | No.5, No.79, Longmen Road, Wansheng Economic Development Zone,<br>Chongqing, P. R. China<br>重庆市万盛区龙门路79号附5号 |                                                                                                                                           |
| Manufacturer:<br>制 造 商:                                                                                                                                                                   | Chongqing CosMX Battery Co., Ltd.<br>重庆冠宇电池有限公司                                                             |                                                                                                                                           |
| Manufacturer Address:<br>制造商地址:                                                                                                                                                           | No.5, No.79, Longmen Road, Wansheng Economic Development Zone,<br>Chongqing, P. R. China<br>重庆市万盛区龙门路79号附5号 |                                                                                                                                           |
| Factory:<br>生产厂:                                                                                                                                                                          | Chongqing CosMX Battery Co., Ltd.<br>重庆冠宇电池有限公司                                                             |                                                                                                                                           |
| Factory address:<br>生产厂地址:                                                                                                                                                                | No.5, No.79, Longmen Road, Wansheng Economic Development Zone,<br>Chongqing, P. R. China<br>重庆市万盛区龙门路79号附5号 |                                                                                                                                           |
| Appearance:<br>样品外观颜色:                                                                                                                                                                    | Black<br>黑色                                                                                                 |                                                                                                                                           |
| Sample status:<br>样品状态:                                                                                                                                                                   | Good<br>完好                                                                                                  |                                                                                                                                           |
| Quantity of sample:<br>样品数量:                                                                                                                                                              | 46Pcs                                                                                                       |                                                                                                                                           |
| Sample identification:<br>样品标识序号:                                                                                                                                                         | N2025-12-5720-001~016 N2025-12-5765-001~030                                                                 |                                                                                                                                           |
| Receiving date:<br>接样日期:                                                                                                                                                                  | 2025.12.13                                                                                                  |                                                                                                                                           |
| Start test date:<br>测试开始日期:                                                                                                                                                               | 2025.12.13                                                                                                  |                                                                                                                                           |
| Completing date:<br>完成日期:                                                                                                                                                                 | 2026.01.02                                                                                                  |                                                                                                                                           |
| <b>Conclusion/结论:</b><br>The submitted samples comply with the requirements of Section 38.3 of the Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8<br>样品符合联合国《试验和标准手册》第八修订版第 38.3 节的要求。 |                                                                                                             |                                                                                                                                           |
| Tested :<br>测试:                                                                                                                                                                           | Fang Ju 方菊<br>Test Engineer 测试工程师                                                                           | <br>Seal/测试中心章:<br>Date of issue: 2026.01.02<br>测试中心 |
| Reviewed :<br>审核:                                                                                                                                                                         | Xiao Duoyu 肖铎渔<br>Technical Manager 技术负责人                                                                   |                                                                                                                                           |
| Approved :<br>批准:                                                                                                                                                                         | Dong Jiaqin 董家勤<br>Authorized Manager 授权签字人                                                                 |                                                                                                                                           |

## General product information

## 样品描述及说明

Sample Type: Battery

样品类型: 电池组

Rechargeable or not  
是否可充电Yes  
是☐ Cell  
电池Use  
用途

—

Electrochemistry  
System  
电池化学组分

--

☒ Battery  
电池组Use  
用途Mobile Phone  
手机Battery Model  
型号

HB566892EJW-A

Composing Mode  
组成方式1S2P  
1串2并Electrochemistry  
System  
电池化学组分LiCoO<sub>2</sub>  
钴酸锂Cell model  
电池型号

CA563490S-Q2

Cell Capacity  
电池容量Typ: 3225mAh  
Min: 3125mAhManufacturer Of Cell  
电池生产厂Chongqing CosMX Battery Co., Ltd.  
重庆冠宇电池有限公司

## Sample parameters

## 样品参数

Nominal Voltage  
标称电压

3.92V

Rated Capacity  
额定容量

6210mAh

Rated Energy  
额定能量

24.35Wh

Limited Charging  
Voltage  
充电限制电压

4.53V

Max Charging  
Current  
最大持续充电电流

16.0218A

Standard Charging  
Current  
标准充电电流

1.242A

Discharge  
Cut-off Voltage  
放电终止电压

3.00V

Max Discharging  
Current  
最大持续放电电流

6.210A

Charge Cut-off  
Current  
充电截止电流

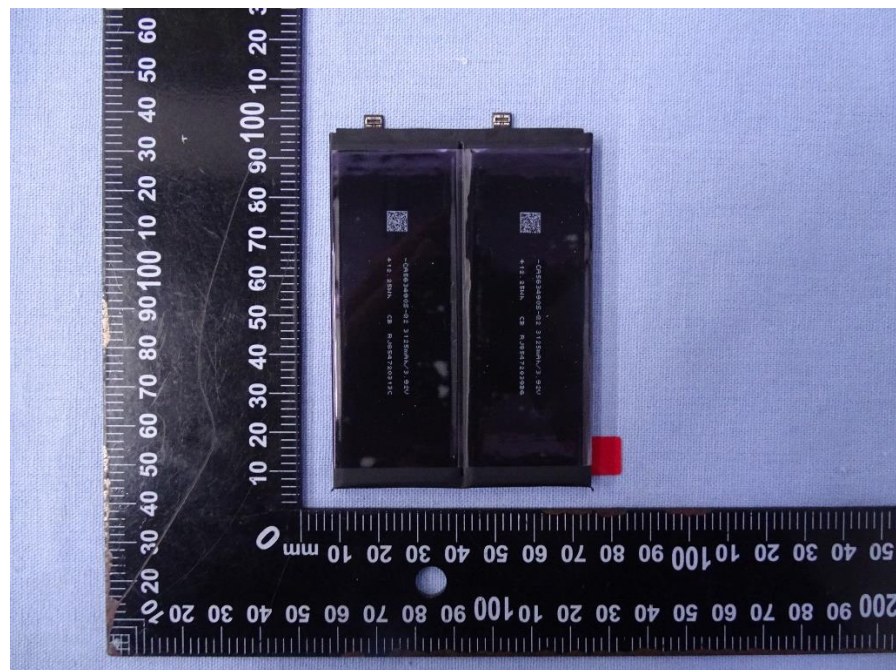
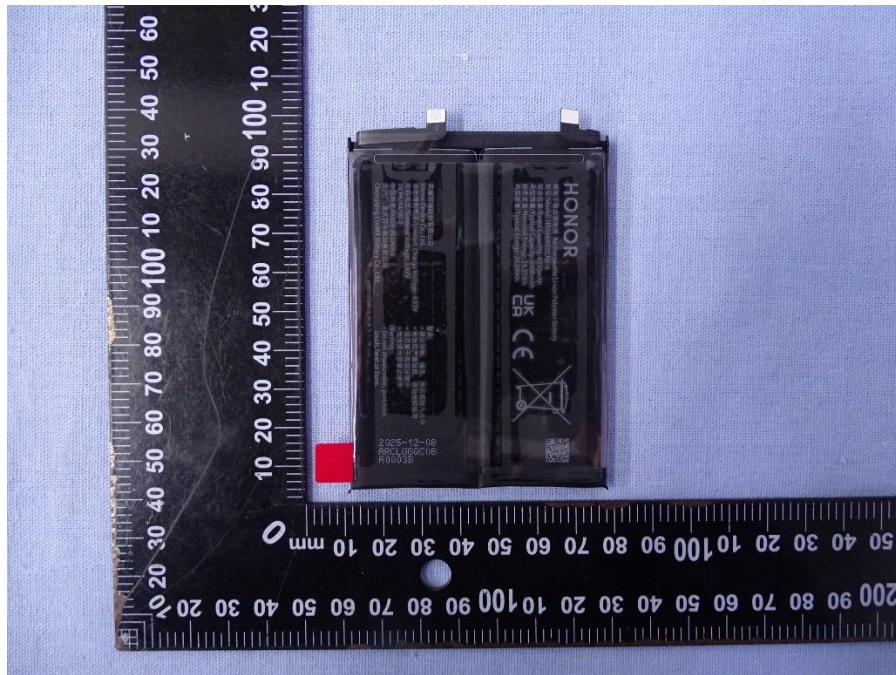
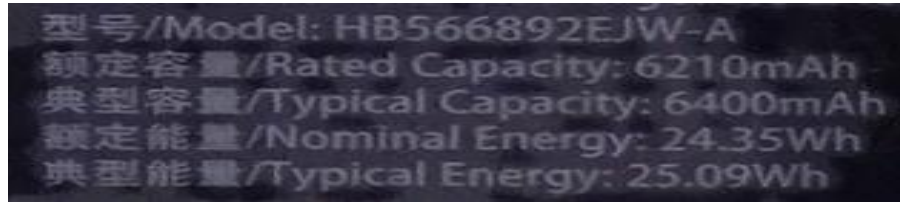
0.15525A

| Test Conclusion<br>测试结论 |                                |                                                                                                                                                                                   |                     |                    |               |
|-------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|---------------|
| No.<br>序号               | Name of test<br>测试项目名称         | The submitted samples<br>comply with the<br>requirements of Section<br>38.3 of the Manual of<br>Tests and Criteria<br>ST/SG/AC.10/11/Rev.8<br><br>样品符合联合国《试验和标准手册》第八修订版第38.3节的要求。 | Test result<br>测试结果 | Conclusion<br>本项结论 | Remark<br>备注  |
| 1                       | Altitude simulation<br>高度模拟    |                                                                                                                                                                                   | See Appendix 1      | P                  |               |
| 2                       | Thermal test<br>温度试验           |                                                                                                                                                                                   | See Appendix 2      | P                  |               |
| 3                       | Vibration<br>振动                |                                                                                                                                                                                   | See Appendix 3      | P                  |               |
| 4                       | Shock<br>冲击                    |                                                                                                                                                                                   | See Appendix 4      | P                  |               |
| 5                       | External Short-circuit<br>外部短路 |                                                                                                                                                                                   | See Appendix 5      | P                  |               |
| 6                       | Impact<br>撞击                   |                                                                                                                                                                                   | See Appendix 6      | N/A                |               |
|                         | Crush<br>挤压                    |                                                                                                                                                                                   | See Appendix 6      | P                  | N2025-12-5765 |
| 7                       | Overcharge<br>过度充电             |                                                                                                                                                                                   | See Appendix 7      | P                  |               |
| 8                       | Forced discharge<br>强制放电       |                                                                                                                                                                                   | See Appendix 8      | P                  | N2025-12-5765 |

## Photos of samples and markings

## 样品及标识照片

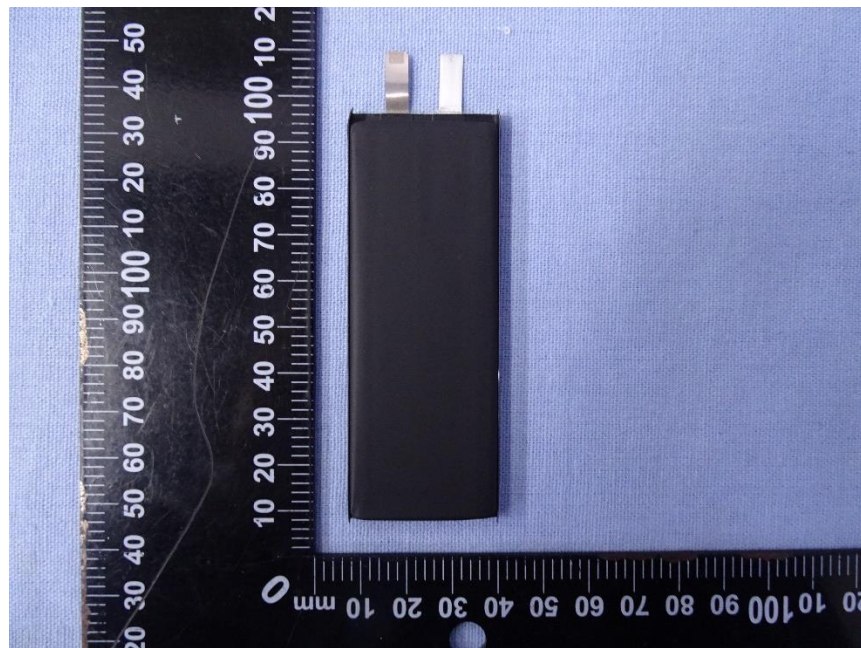
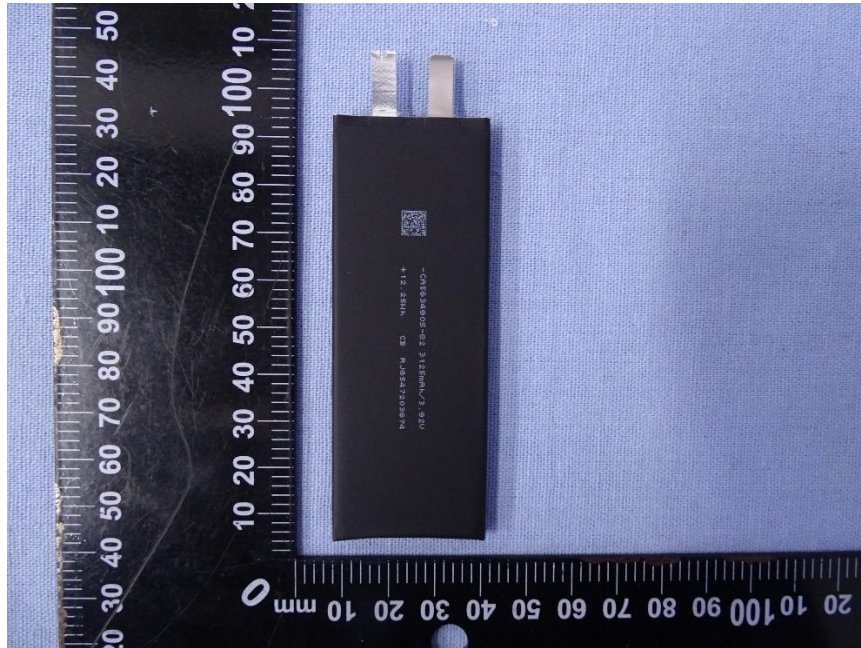
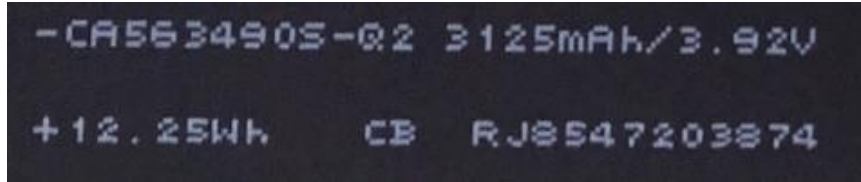
Battery (HB566892EJW-A 3.92V 6210mAh/24.35Wh( Rated ) 6400mAh/25.09Wh (Typical ) )



## Photos of samples and markings

## 样品及标识照片

## Cell (CA563490S-Q2 3.92V 3125mAh)



## Appendix 1

## 附表 1

|                                                                                                                                                                                            |                             |                        |                     |                        |                                                                    |                                   |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------|---------------------|------------------------|--------------------------------------------------------------------|-----------------------------------|------------------------|
| Test Items<br>测试项目                                                                                                                                                                         | Altitude simulation<br>高度模拟 |                        |                     |                        |                                                                    |                                   |                        |
| 1.1                                                                                                                                                                                        | Test procedure<br>测试步骤      |                        |                     |                        |                                                                    |                                   |                        |
| Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hours at ambient temperature (20±5℃).<br>试验电池芯和电池在环境温度(20±5℃)下，储存在小于等于11.6kPa的压力下至少六小时。         |                             |                        |                     |                        |                                                                    |                                   |                        |
| 1.2                                                                                                                                                                                        | Sample status<br>样品状态       |                        |                     |                        |                                                                    |                                   |                        |
| N2025-12-5720-009 ~ 012, at first cycle in fully charged states;在第1个循环完全充电；<br>N2025-12-5720-013 ~ 016, after 25 cycles in fully charged states.在第25个循环完全充电。                               |                             |                        |                     |                        |                                                                    |                                   |                        |
| 1.3                                                                                                                                                                                        | Result<br>测试结果              |                        |                     |                        |                                                                    |                                   |                        |
| Sample No.<br>样品编号                                                                                                                                                                         | Before Test测试前              |                        | After Test测试后       |                        | Mass loss<br>质量损失<br>(M<1g: 0.5%<br>1g≤M≤75g: 0.2%<br>M>75g: 0.1%) | Residual<br>OCV<br>剩余电压<br>(≥90%) | Test<br>result<br>测试结果 |
|                                                                                                                                                                                            | Mass<br>样品质量<br>(g)         | Voltage<br>开路电压<br>(V) | Mass<br>样品质量<br>(g) | Voltage<br>开路电压<br>(V) |                                                                    |                                   |                        |
| N2025-12-5720-009                                                                                                                                                                          | 84.4580                     | 4.5097                 | 84.4538             | 4.5009                 | 0.0050                                                             | 99.8058                           | O                      |
| N2025-12-5720-010                                                                                                                                                                          | 84.4339                     | 4.5091                 | 84.4284             | 4.5008                 | 0.0065                                                             | 99.8161                           | O                      |
| N2025-12-5720-011                                                                                                                                                                          | 84.5300                     | 4.5101                 | 84.5241             | 4.5014                 | 0.0070                                                             | 99.8062                           | O                      |
| N2025-12-5720-012                                                                                                                                                                          | 84.3598                     | 4.5092                 | 84.3534             | 4.5008                 | 0.0076                                                             | 99.8144                           | O                      |
| N2025-12-5720-013                                                                                                                                                                          | 84.4451                     | 4.5152                 | 84.4427             | 4.4974                 | 0.0028                                                             | 99.6060                           | O                      |
| N2025-12-5720-014                                                                                                                                                                          | 84.3300                     | 4.5120                 | 84.3285             | 4.4968                 | 0.0018                                                             | 99.6631                           | O                      |
| N2025-12-5720-015                                                                                                                                                                          | 84.3432                     | 4.5131                 | 84.3404             | 4.4976                 | 0.0033                                                             | 99.6557                           | O                      |
| N2025-12-5720-016                                                                                                                                                                          | 84.5231                     | 4.5121                 | 84.5212             | 4.4970                 | 0.0022                                                             | 99.6662                           | O                      |
| —                                                                                                                                                                                          | —                           | —                      | —                   | —                      | —                                                                  | —                                 | —                      |
| —                                                                                                                                                                                          | —                           | —                      | —                   | —                      | —                                                                  | —                                 | —                      |
| Note: L-Leakage, V-Venting, D -Disassembly, R -Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture, no fire.<br>注：L- 泄漏；V- 排气；D- 解体；R- 破裂；F - 起火；O- 无泄漏、无排气、无解体、无破裂、无起火。 |                             |                        |                     |                        |                                                                    |                                   |                        |

## Appendix 2

## 附表 2

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                        |                     |                        |                                                                       |                                   |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|---------------------|------------------------|-----------------------------------------------------------------------|-----------------------------------|------------------------|
| Test Items<br>测试项目                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Thermal test<br>温度测试   |                        |                     |                        |                                                                       |                                   |                        |
| 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Test procedure<br>测试步骤 |                        |                     |                        |                                                                       |                                   |                        |
| <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 in 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℃).</p> <p>将电芯和电池在温度为72±2℃的条件下贮存不少于6个小时,然后,在温度-40±2℃条件下贮存不少于6个小时,两个温度间的间隔最长为30min,重复操作上述步骤直到10次,然后,将其在环境温度为20±5℃的条件下放置24个小时。</p> |                        |                        |                     |                        |                                                                       |                                   |                        |
| 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sample status<br>样品状态  |                        |                     |                        |                                                                       |                                   |                        |
| N2025-12-5720-009 ~ 012, at first cycle in fully charged states;在第1个循环完全充电;<br>N2025-12-5720-013 ~ 016, after 25 cycles in fully charged states.在第25个循环完全充电。                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                        |                     |                        |                                                                       |                                   |                        |
| 1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Result<br>测试结果         |                        |                     |                        |                                                                       |                                   |                        |
| Sample No.<br>样品编号                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Before Test测试前         |                        | After Test测试后       |                        | Mass loss<br>质量损失<br>(M<1g: 0.5%<br>1g≤M≤75g:<br>0.2%<br>M>75g: 0.1%) | Residual<br>OCV<br>剩余电压<br>(≥90%) | Test<br>result<br>测试结果 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mass<br>样品质量<br>(g)    | Voltage<br>开路电压<br>(V) | Mass<br>样品质量<br>(g) | Voltage<br>开路电压<br>(V) |                                                                       |                                   |                        |
| N2025-12-5720-009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 84.4538                | 4.5009                 | 84.4319             | 4.3911                 | 0.0259                                                                | 97.5605                           | O                      |
| N2025-12-5720-010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 84.4284                | 4.5008                 | 84.4055             | 4.3925                 | 0.0271                                                                | 97.5953                           | O                      |
| N2025-12-5720-011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 84.5241                | 4.5014                 | 84.5023             | 4.3912                 | 0.0258                                                                | 97.5521                           | O                      |
| N2025-12-5720-012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 84.3534                | 4.5008                 | 84.3309             | 4.3931                 | 0.0267                                                                | 97.6064                           | O                      |
| N2025-12-5720-013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 84.4427                | 4.4974                 | 84.4188             | 4.3976                 | 0.0283                                                                | 97.7807                           | O                      |
| N2025-12-5720-014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 84.3285                | 4.4968                 | 84.3048             | 4.3970                 | 0.0281                                                                | 97.7806                           | O                      |
| N2025-12-5720-015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 84.3404                | 4.4976                 | 84.3175             | 4.3970                 | 0.0272                                                                | 97.7635                           | O                      |
| N2025-12-5720-016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 84.5212                | 4.4970                 | 84.4975             | 4.3970                 | 0.0280                                                                | 97.7759                           | O                      |
| —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | —                      | —                      | —                   | —                      | —                                                                     | —                                 | —                      |
| —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | —                      | —                      | —                   | —                      | —                                                                     | —                                 | —                      |
| <p>Note: L-Leakage, V-Venting, D -Disassembly, R -Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture, no fire.</p> <p>注: L- 泄漏; V- 排气; D- 解体; R- 破裂; F- 起火; O- 无泄漏、无排气、无解体、无破裂、无起火。</p>                                                                                                                                                                                                                                                                                                                                                                      |                        |                        |                     |                        |                                                                       |                                   |                        |

## Appendix 3

## 附表 3

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                        |                     |                        |                                                                    |                                |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|---------------------|------------------------|--------------------------------------------------------------------|--------------------------------|---------------------|
| Test Items<br>测试项目                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Vibration<br>振动        |                        |                     |                        |                                                                    |                                |                     |
| 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Test procedure<br>测试步骤 |                        |                     |                        |                                                                    |                                |                     |
| 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 wave form 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 position of the cell. Starting from 7Hz, maintain a maximum acceleration of 1gn until the frequency reaches 18Hz, then maintain the amplitude at 0.8 mm (total offset of 1.6mm) and increase the frequency until the maximum acceleration reaches 8gn (frequency of approximately 50Hz). Maintain the maximum acceleration at 8gn until the frequency increases to 200Hz.<br>将电芯和电池牢固地安装在振动台的台面上，然后开始振动。振动以正弦波形式，以7Hz增加至200Hz，然后再减少回到7Hz为一个循环，一个循环持续15分钟的对数扫频。每个电芯和电池从三个互相垂直的方向上循环12次，3个小时。对数扫频为：从7Hz开始保持1gn的最大加速度直至频率达到18Hz，然后将振幅保持在0.8mm（总偏移1.6mm）并增加频率直至最大加速度达8gn(频率约为50Hz)。将最大加速度保持在8gn 直至频率增加到200Hz。 |                        |                        |                     |                        |                                                                    |                                |                     |
| 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sample status<br>样品状态  |                        |                     |                        |                                                                    |                                |                     |
| N2025-12-5720-009 ~ 012, at first cycle in fully charged states;在第1个循环完全充电；<br>N2025-12-5720-013 ~ 016, after 25 cycles in fully charged states.在第25个循环完全充电。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                        |                     |                        |                                                                    |                                |                     |
| 1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Result<br>测试结果         |                        |                     |                        |                                                                    |                                |                     |
| Sample No.<br>样品编号                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Before Test测试前         |                        | After Test测试后       |                        | Mass loss<br>质量损失<br>(M<1g: 0.5%<br>1g≤M≤75g: 0.2%<br>M>75g: 0.1%) | Residual OCV<br>剩余电压<br>(≥90%) | Test result<br>测试结果 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mass<br>样品质量<br>(g)    | Voltage<br>开路电压<br>(V) | Mass<br>样品质量<br>(g) | Voltage<br>开路电压<br>(V) |                                                                    |                                |                     |
| N2025-12-5720-009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 84.4319                | 4.3911                 | 84.4282             | 4.3903                 | 0.0044                                                             | 99.9811                        | O                   |
| N2025-12-5720-010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 84.4055                | 4.3925                 | 84.4009             | 4.3918                 | 0.0054                                                             | 99.9832                        | O                   |
| N2025-12-5720-011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 84.5023                | 4.3912                 | 84.4983             | 4.3904                 | 0.0047                                                             | 99.9816                        | O                   |
| N2025-12-5720-012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 84.3309                | 4.3931                 | 84.3268             | 4.3924                 | 0.0049                                                             | 99.9832                        | O                   |
| N2025-12-5720-013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 84.4188                | 4.3976                 | 84.4153             | 4.3970                 | 0.0041                                                             | 99.9857                        | O                   |
| N2025-12-5720-014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 84.3048                | 4.3970                 | 84.3012             | 4.3963                 | 0.0043                                                             | 99.9836                        | O                   |
| N2025-12-5720-015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 84.3175                | 4.3970                 | 84.3141             | 4.3963                 | 0.0040                                                             | 99.9845                        | O                   |
| N2025-12-5720-016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 84.4975                | 4.3970                 | 84.4940             | 4.3964                 | 0.0041                                                             | 99.9854                        | O                   |
| —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | —                      | —                      | —                   | —                      | —                                                                  | —                              | —                   |
| —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | —                      | —                      | —                   | —                      | —                                                                  | —                              | —                   |
| Note: L-Leakage, V-Venting, D -Disassembly, R -Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture, no fire.<br>注：L- 泄漏；V- 排气；D- 解体；R- 破裂；F - 起火；O- 无泄漏、无排气、无解体、无破裂、无起火。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                        |                     |                        |                                                                    |                                |                     |

## Appendix 4

## 附表 4

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |                        |                     |                        |                                                                    |                                   |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|---------------------|------------------------|--------------------------------------------------------------------|-----------------------------------|------------------------|
| Test Items<br>测试项目                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Shock<br>冲击            |                        |                     |                        |                                                                    |                                   |                        |
| 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Test procedure<br>测试步骤 |                        |                     |                        |                                                                    |                                   |                        |
| <p>Test cells and batteries shall be secured to the testing machine, and each cell shall be subjected to a half-sine shock of peak acceleration of 150gn and pulse duration of 6 milliseconds. Small batteries shall be subjected to a half-sine shock of peak acceleration of 150gn (or Acceleration(gn)= <math>\sqrt{\frac{100L50}{Vmax}}</math>, which is smaller) and pulse duration of 6 milliseconds. Each cell or battery shall be subjected to three shocks in the positive direction followed by three shocks in the negative direction of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks</p> <p>以稳固的托架固定住每个电芯和电池样品的全部配件表面。对每个电芯以峰值为150gn的半正弦的加速度撞击，脉冲持续6毫秒，对每个电池以峰值为150gn（或与 <math>\sqrt{\frac{100L50}{Vmax}}</math> 中的较小值）的半正弦的加速度撞击，脉冲持续6毫秒，。每个电池或电池组须在三个互相垂直的电池安装方位的正方向经受三次冲击，接着在反方向经受三次冲击，总共经受18次冲击。</p> |                        |                        |                     |                        |                                                                    |                                   |                        |
| 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sample status<br>样品状态  |                        |                     |                        |                                                                    |                                   |                        |
| N2025-12-5720-009 ~ 012, at first cycle in fully charged states;在第1个循环完全充电；<br>N2025-12-5720-013 ~ 016, after 25 cycles in fully charged states.在第25个循环完全充电。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                        |                     |                        |                                                                    |                                   |                        |
| 1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Result<br>测试结果         |                        |                     |                        |                                                                    |                                   |                        |
| Sample No.<br>样品编号                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Before Test测试前         |                        | After Test测试后       |                        | Mass loss<br>质量损失<br>(M<1g: 0.5%<br>1g≤M≤75g: 0.2%<br>M>75g: 0.1%) | Residual<br>OCV<br>剩余电压<br>(≥90%) | Test<br>result<br>测试结果 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mass<br>样品质量<br>(g)    | Voltage<br>开路电压<br>(V) | Mass<br>样品质量<br>(g) | Voltage<br>开路电压<br>(V) |                                                                    |                                   |                        |
| N2025-12-5720-009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 84.4282                | 4.3903                 | 84.4243             | 4.3901                 | 0.0046                                                             | 99.9952                           | O                      |
| N2025-12-5720-010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 84.4009                | 4.3918                 | 84.3971             | 4.3917                 | 0.0045                                                             | 99.9970                           | O                      |
| N2025-12-5720-011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 84.4983                | 4.3904                 | 84.4944             | 4.3903                 | 0.0046                                                             | 99.9980                           | O                      |
| N2025-12-5720-012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 84.3268                | 4.3924                 | 84.3235             | 4.3923                 | 0.0039                                                             | 99.9975                           | O                      |
| N2025-12-5720-013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 84.4153                | 4.3970                 | 84.4115             | 4.3968                 | 0.0045                                                             | 99.9970                           | O                      |
| N2025-12-5720-014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 84.3012                | 4.3963                 | 84.2974             | 4.3961                 | 0.0045                                                             | 99.9968                           | O                      |
| N2025-12-5720-015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 84.3141                | 4.3963                 | 84.3106             | 4.3961                 | 0.0042                                                             | 99.9961                           | O                      |
| N2025-12-5720-016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 84.4940                | 4.3964                 | 84.4906             | 4.3962                 | 0.0040                                                             | 99.9966                           | O                      |
| —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | —                      | —                      | —                   | —                      | —                                                                  | —                                 | —                      |
| —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | —                      | —                      | —                   | —                      | —                                                                  | —                                 | —                      |
| Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture, no fire.<br>注：L- 泄漏；V- 排气；D- 解体；R- 破裂；F - 起火；O- 无泄漏、无排气、无解体、无破裂、无起火。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                        |                     |                        |                                                                    |                                   |                        |

## Appendix 5

## 附表 5

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                     |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------|--------------|
| Test Items<br>测试项目                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | External short circuit<br>外部短路           |                     |              |
| 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Test procedure<br>测试步骤                   |                     |              |
| <p>The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches 57±4℃ and then the cell or battery shall be subjected to a short circuit condition with a total external resistance of less than 0.1 ohm at 57±4℃. This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 57±4℃, the cell or battery must be observed for a further six hour for the test to be concluded.</p> <p>保持试验环境温度稳定在57±4℃，以使电芯或电池样品外表温度达到57±4℃，然后，在此温度下，将其正负极用小于0.1欧姆的线路短接，待电芯或电池的外表温度恢复到57±4℃之后再持续1小时以上，对电芯或电池必须进一步观察6个小时才能下结论。</p> |                                          |                     |              |
| 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sample status<br>样品状态                    |                     |              |
| N2025-12-5720-009 ~ 012, at first cycle in fully charged states;在第1个循环完全充电；<br>N2025-12-5720-013 ~ 016, after 25 cycles in fully charged states.在第25个循环完全充电。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |                     |              |
| 1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Result<br>测试结果                           |                     |              |
| Sample No.<br>样品编号                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Max. External Temperature<br>样品表面最高温度(℃) | Test result<br>测试结果 | Remark<br>备注 |
| N2025-12-5720-009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 57.5                                     | O                   | —            |
| N2025-12-5720-010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 56.9                                     | O                   | —            |
| N2025-12-5720-011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 57.4                                     | O                   | —            |
| N2025-12-5720-012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 56.9                                     | O                   | —            |
| N2025-12-5720-013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 57.3                                     | O                   | —            |
| N2025-12-5720-014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 56.7                                     | O                   | —            |
| N2025-12-5720-015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 57.4                                     | O                   | —            |
| N2025-12-5720-016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 56.9                                     | O                   | —            |
| —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | —                                        | —                   | —            |
| —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | —                                        | —                   | —            |
| Note: <b>D</b> –Disassembly, <b>R</b> –Rupture, <b>F</b> –Fire, <b>OT</b> –Over Temperature, <b>O</b> –no disassembly, no rupture, no fire, no Over temperature<br>注： D- 解体； R- 破裂； F- 起火； OT- 超过170℃； O- 无解体、无破裂、无起火、不超过170℃                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                     |              |

## Appendix 6

## 附表 6

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |                          |                     |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------|---------------------|--------------|
| Test Items<br>测试项目                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Crush 挤压                                 |                          |                     |              |
| 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Test procedure<br>测试步骤                   |                          |                     |              |
| A cell or component cell is to be crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1.5 cm/s at the first point of contact. The crushing is to be continued until the first of the three options below is reached. (a) The applied force reaches 13kN±0.78kN; (b) The voltage of the cell drops by at least 100 mV; or (c) The cell is deformed by 50% or more of its original thickness.<br>电池芯或组成电池芯在两个平面间挤压。挤压在第一个接触点以约1.5cm/s 的速度慢慢进行，直到下面三个选项之一达到为止：(a)作用力达到 13kN±0.78kN；(b)电池芯电压降至少达到100mV；(c)电池厚度和最初比较变形至少50%。 |                                          |                          |                     |              |
| 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sample status<br>样品状态                    |                          |                     |              |
| N2025-12-5765-021~ 025, at first cycle at 50% of the design rated capacity;在第1个循环充50%的额定容量；<br>N2025-12-5765-026~030, after 25 cycles at 50% of the design rated capacity. 在第25个循环充50%的额定容量。                                                                                                                                                                                                                                                                                                                                                                       |                                          |                          |                     |              |
| 1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Result<br>测试结果                           |                          |                     |              |
| Sample No.<br>样品编号                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Max. External Temperature<br>样品表面最高温度(℃) | Ending condition<br>终止条件 | Test result<br>测试结果 | Remark<br>备注 |
| N2025-12-5765-021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 23.6                                     | a                        | O                   | —            |
| N2025-12-5765-022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 23.8                                     | a                        | O                   | —            |
| N2025-12-5765-023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24.5                                     | a                        | O                   | —            |
| N2025-12-5765-024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24.3                                     | a                        | O                   | —            |
| N2025-12-5765-025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24.3                                     | a                        | O                   | —            |
| N2025-12-5765-026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24.1                                     | a                        | O                   | —            |
| N2025-12-5765-027                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24.4                                     | a                        | O                   | —            |
| N2025-12-5765-028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24.2                                     | a                        | O                   | —            |
| N2025-12-5765-029                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24.2                                     | a                        | O                   | —            |
| N2025-12-5765-030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24.5                                     | a                        | O                   | —            |
| Note: D -Disassembly, R -Rupture, F-Fire, OT –Over Temperature, O- no disassembly, no fire, no Over temperature<br>注：D- 解体；R- 破裂；F - 起火；OT– 超过170℃；O-无解体、无起火、不超过170℃                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                          |                     |              |

## Appendix 7

## 附表 7

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                            |                     |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|---------------------|--------------|
| Test Items<br>测试项目                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Overcharge<br>过度充电                   |                            |                     |              |
| 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test procedure<br>测试步骤               |                            |                     |              |
| <p>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 or 22V, whichever is less. When the manufacturer's recommended charge voltage is more than 18V, the charging voltage of the test shall be 1.2 times maximum charge voltage. The charging current is 2 times of the maximum charging current recommended by the manufacturer.</p> <p>如果厂家推荐的充电电压不超过18V，本测试的最小充电电压应该是两倍的厂家标定最大充电电压或者是22V，取其中较小者。如果厂家推荐的充电电压超过18V，充电电压应该为 1.2倍的厂家标定最大充电电压。充电电流为厂家推荐的最大充电电流2倍。</p> |                                      |                            |                     |              |
| 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sample status<br>样品状态                |                            |                     |              |
| N2025-12-5720-001 ~ 004, at first cycle in fully charged states; 在第1个循环完全充电;<br>N2025-12-5720-005 ~ 008, after 25 cycles in fully charged states. 在第25个循环完全充电。                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |                            |                     |              |
| 1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Result<br>测试结果                       |                            |                     |              |
| Sample No.<br>样品编号                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Voltage Before test(V)<br>测试前开路电压(V) | test Voltage(V)<br>试验电压(V) | Test result<br>测试结果 | Remark<br>备注 |
| N2025-12-5720-001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.5081                               | 9.0600                     | O                   | —            |
| N2025-12-5720-002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.5083                               | 9.0600                     | O                   | —            |
| N2025-12-5720-003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.5089                               | 9.0600                     | O                   | —            |
| N2025-12-5720-004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.5082                               | 9.0600                     | O                   | —            |
| N2025-12-5720-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.5140                               | 9.0600                     | O                   | —            |
| N2025-12-5720-006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.5160                               | 9.0600                     | O                   | —            |
| N2025-12-5720-007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.5123                               | 9.0600                     | O                   | —            |
| N2025-12-5720-008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.5150                               | 9.0600                     | O                   | —            |
| Note: <b>D</b> -Disassembly, <b>F</b> -Fire, <b>O</b> - no disassembly, no fire.<br>注: D- 解体; F - 起火; O-无解体、无起火。                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |                            |                     |              |

## Appendix 8

## 附表 8

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                     |                    |                                       |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------|--------------------|---------------------------------------|---------------------|
| Test Items<br>测试项目                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Forced discharge<br>强制放电              |                     |                    |                                       |                     |
| 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Test procedure<br>测试步骤                |                     |                    |                                       |                     |
| Each cell shall be forced discharged at ambient temperature by connecting it in series with a DC12V power supply at an initial current equal to the maximum discharge current specified the manufacturer. 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(Measured in amperes).<br>在20±5℃的环境温度下，将单个电芯连接在12V的直流电源上进行强制放电，此直流电源提供每个电芯初始电流为制造厂指定的最大放电电流，放电时间为额定容量除以初始电流。 |                                       |                     |                    |                                       |                     |
| 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample status<br>样品状态                 |                     |                    |                                       |                     |
| N2025-12-5765-001 ~ 010, at first cycle in fully discharged states; 在第1个循环完全放电;<br>N2025-12-5765-011 ~ 020, after 25 cycles ending in fully discharged states. 在第25个循环完全放电。                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     |                    |                                       |                     |
| 1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Result<br>测试结果                        |                     |                    |                                       |                     |
| Sample No.<br>样品编号                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Voltage Before test<br>测试前开路电压<br>(V) | Test result<br>测试结果 | Sample No.<br>样品编号 | Voltage Before test<br>测试前开路电压<br>(V) | Test result<br>测试结果 |
| N2025-12-5765-001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.5711                                | O                   | N2025-12-5765-011  | 3.5821                                | O                   |
| N2025-12-5765-002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.5745                                | O                   | N2025-12-5765-012  | 3.5751                                | O                   |
| N2025-12-5765-003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.5666                                | O                   | N2025-12-5765-013  | 3.5566                                | O                   |
| N2025-12-5765-004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.5578                                | O                   | N2025-12-5765-014  | 3.5800                                | O                   |
| N2025-12-5765-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.5654                                | O                   | N2025-12-5765-015  | 3.5767                                | O                   |
| N2025-12-5765-006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.5540                                | O                   | N2025-12-5765-016  | 3.5787                                | O                   |
| N2025-12-5765-007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.5797                                | O                   | N2025-12-5765-017  | 3.5933                                | O                   |
| N2025-12-5765-008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.5594                                | O                   | N2025-12-5765-018  | 3.5894                                | O                   |
| N2025-12-5765-009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.5725                                | O                   | N2025-12-5765-019  | 3.5762                                | O                   |
| N2025-12-5765-010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.5711                                | O                   | N2025-12-5765-020  | 3.6024                                | O                   |
| Note: D -Disassembly, F-Fire, O- no disassembly, no fire.<br>注： D- 解体； F- 起火； O-无解体、无起火。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |                     |                    |                                       |                     |

**Test equipment list**  
**仪器设备清单**

| No.<br>序号 | Name<br>名 称                                        | Type<br>型号  | Equipment No.<br>编 号 | Calibration Date<br>校准有效期至 | Used<br>本次使用<br>(√) |
|-----------|----------------------------------------------------|-------------|----------------------|----------------------------|---------------------|
| 1         | Battery Charge And<br>Discharging Tester<br>电池测试系统 | 5V/30A      | GYA-E-5149           | 2026-02-13                 | √                   |
| 2         | Low Pressure Chamber<br>低压高空模拟试验箱                  | GX-3020-Z   | GYA-O-0039           | 2026-05-18                 | √                   |
| 3         | Cold and hot shock test<br>chamber<br>冷热冲击试验机      | CZ-H-80B    | GYA-T-0796           | 2026-06-04                 | √                   |
| 4         | Vibration Platform<br>电动振动试验机                      | ES-3-150    | GYA-O-0687           | 2026-02-24                 | √                   |
| 5         | Shock Platform<br>冲击试验台                            | IS350       | GYA-F-2221           | 2026-02-20                 | √                   |
| 6         | Crush Platform<br>伺服挤压试验机                          | BE-6045-2TD | GYA-F-2220           | 2026-11-12                 | √                   |
| 7         | DC regulated power supply<br>直流稳压电源                | IT6512      | GYA-E-1690           | 2026-02-19                 | √                   |
| 8         | DC regulated power supply<br>直流稳压电源                | IT6512      | GYA-E-1691           | 2026-02-19                 | √                   |
| 9         | DC regulated power supply<br>直流稳压电源                | IT6512      | GYA-E-1692           | 2026-02-19                 | √                   |
| 10        | DC regulated power supply<br>直流稳压电源                | IT6522C     | GYA-E-1616           | 2026-02-19                 | √                   |
| 11        | DC regulated power supply<br>直流稳压电源                | IT6163      | GYA-E-8285           | 2026-08-14                 | √                   |
| 12        | DC electronic load<br>直流电子负载                       | IT6163      | GYA-E-2184           | 2026-03-13                 | √                   |
| 13        | DC regulated power supply<br>直流稳压电源                | IT6163      | GYA-E-8286           | 2026-08-14                 | √                   |
| 14        | DC electronic load<br>直流电子负载                       | IT8816      | GYA-E-1617           | 2026-02-19                 | √                   |
| 15        | DC regulated power supply<br>直流稳压电源                | IT6163      | GYA-E-8287           | 2026-08-14                 | √                   |
| 16        | DC electronic load<br>直流电子负载                       | IT6163      | GYA-E-1693           | 2026-02-19                 | √                   |

| No.<br>序号 | Name<br>名 称                           | Type<br>型号     | Equipment No.<br>编 号 | Calibration Date<br>校准有效期至 | Used<br>本次使用<br>(√) |
|-----------|---------------------------------------|----------------|----------------------|----------------------------|---------------------|
| 17        | Multichannel short circuit<br>电池短路试验机 | GK-8048        | GYA-T-0155           | 2026-06-03                 | √                   |
| 18        | Data Collector<br>数据采集仪               | LR8431-30      | GYA-E-0717           | 2026-02-19                 | √                   |
| 19        | Multichannel short circuit<br>电池短路试验机 | GK-8048        | GYA-T-0245           | 2026-06-03                 | √                   |
| 20        | Data Collector<br>数据采集仪               | HIOKI          | GYA-E-1122           | 2026-09-10                 | √                   |
| 21        | Electronic Scale<br>电子天平              | GS2202         | GYA-F-1435           | 2026-05-18                 | √                   |
| 22        | Internal resistance tester<br>电压内阻测试仪 | BT3562         | GYA-E-1806           | 2026-03-13                 | √                   |
| 23        | Electronic Scale<br>电子天平              | ESJ200-4B      | GYA-F-2236           | 2026-03-09                 | √                   |
| 24        | Internal resistance tester<br>电压内阻测试仪 | BT3562         | GYA-E-5083           | 2026-03-13                 | √                   |
| 25        | PPG Tester<br>PPG 测试仪                 | ATMPPG200-1000 | GYA-L-3086           | 2026-09-10                 | √                   |
| 26        | Internal resistance tester<br>电压内阻测试仪 | BT3562         | GYA-E-1875           | 2026-05-13                 | √                   |
| 27        | Electronic Scale<br>电子天平              | ESJ200-4B      | GYA-F-1578           | 2026-04-14                 | √                   |
| 28        | Data Collector<br>数据采集仪               | LR8431-30      | GYA-E-0401           | 2026-06-19                 | √                   |

## 注 意 事 项

### Attention

1. 本报告无检测单位“测试中心章”无效。  
The test report is invalid without the official stamp of the lab.
2. 未经本实验室书面同意，不得部分地复制本报告。  
Nobody is allowed to photocopy or partly photocopy this report without written permission of the lab.
3. 本报告无批准人、审核人签名无效。  
The test report is invalid without the signature of ratifier, reviewer.
4. 本报告涂改无效。  
The test report is invalid if altered.
5. 如果报告中部分项目相对于测试依据有偏离的，将在当前测试项目中予以说明。  
If any test method is deviation from the designated test method, must be commented in the test data sheet.
6. 对检测报告若有异议，应于收到报告之日起十五天内向检测单位提出。  
Objections to the test report must be submitted to lab within 15 days.
7. 本报告仅对送检样品负责。  
The test report is valid for the tested sample only.
8. 本检测结果中“N/A”表示“不适用”，“P”表示“通过”，“F”表示“不通过”。  
As for the test result “N/A” means “Not Applicable”, “P” means “Pass” and “F” means “Fail”.

珠海冠宇电池股份有限公司测试中心

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\*\*\*报告结束\*\*\*

\*\*\*END\*\*\*