



中国认可  
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检测  
TESTING  
CNAS L9856

# UN38.3 测试报告

## UN38.3 Test Report

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| 报告编号<br>Report No.  | CCJC2612777R01                                            |
| 样品名称<br>Sample name | USB 可充式锂离子电池<br>USB Rechargeable Lithium-Ion Battery      |
| 型号<br>Model         | D                                                         |
| 申请商<br>Applicant    | 深圳市安为创能科技有限公司<br>SHENZHEN AVENERGY TECHNOLOGY<br>CO.,LTD. |

深圳诚测检测技术有限公司  
Shenzhen CCJC Technology Co., Ltd

|                             |                                                                                                                                                                           |                                                                                                                                                                                                                                                 |                         |                          |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------|
| 申请商<br>Applicant            | 名称<br>Name                                                                                                                                                                | 深圳市安为创能科技有限公司<br>SHENZHEN AVENERGY TECHNOLOGY CO.,LTD.                                                                                                                                                                                          |                         |                          |
|                             | 地址<br>Address                                                                                                                                                             | 深圳市宝安区西乡街道共乐社区银田工业区西发小区鼎盛大厦 A 座 203<br>Room203, building A, DingSheng building, Xifa community, Yintian industrial zone, Gongle Community, Xixiang Street, Bao'an district, Shenzhen                                                            |                         |                          |
| 制造商<br>Manufacturer         | 名称<br>Name                                                                                                                                                                | 贵州安为创能科技有限公司<br>Guizhou AVEnergy Technology Co.,Ltd.                                                                                                                                                                                            |                         |                          |
|                             | 地址<br>Address                                                                                                                                                             | 贵州省安顺市西秀区新安街道西秀产业园区智能终端产业园 D7 栋厂房 1-3 层<br>Floor1-3, Building D7, lintelligent Terminal Industrial Park, Xixiu Industrial Park, Xin'an Street, Xixiu District, Anshun City, Guizhou Province                                                    |                         |                          |
|                             | 电话 Tel:                                                                                                                                                                   | 18685380507                                                                                                                                                                                                                                     | 邮箱 Mail:                | huangzhihua@ferexave.com |
|                             | 网址 Website:                                                                                                                                                               | www.awcnkj.cn                                                                                                                                                                                                                                   |                         |                          |
| 生产厂<br>Factory              | 名称<br>Name                                                                                                                                                                | 广东佳为能源股份有限公司<br>GuangDong JVEnergy Co.,Ltd                                                                                                                                                                                                      |                         |                          |
|                             | 地址<br>Address                                                                                                                                                             | 广东省肇庆市封开县粤桂合作特别试验区平凤拓展区盈田智谷 4 地块 20 号楼三楼<br>3rd Floor, Building 20, Lot 4, Yingtian Zhigu, Pingfeng Development Zone, Guangdong-Guangxi Cooperation Special Experimental Zone, Pingfeng Town, Fengkai County, Zhaoqing City. Guangdong Province |                         |                          |
| 测试实验室<br>Testing Laboratory | 名称<br>Name                                                                                                                                                                | 深圳诚测检测技术有限公司<br>Shenzhen CCJC Technology Co., Ltd                                                                                                                                                                                               |                         |                          |
|                             | 地址<br>Address                                                                                                                                                             | 广东省深圳市宝安区松岗街道溪头社区溪头路 25 号厂房 101 (1-3 层)<br>1-3/F., Factory Building 101, No.25, Xitou Road, Xitou, Songgang Subdistrict, Bao'an District, Shenzhen, Guangdong, China                                                                            |                         |                          |
|                             | 电话 Tel:                                                                                                                                                                   | 0086-755-23707853                                                                                                                                                                                                                               | 邮箱 Mail:                | service@ccjctek.com      |
|                             | 网址 Website:                                                                                                                                                               | www.ccjctek.com                                                                                                                                                                                                                                 |                         |                          |
| 测试标准<br>Test Standard       | 联合国《试验和标准手册》(第 8 版+修订 1) 38.3 节<br>UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.8+Amend.1/Subsection 38.3                                                         |                                                                                                                                                                                                                                                 |                         |                          |
| 接收日期<br>Accepted date       | 2026-03-26                                                                                                                                                                |                                                                                                                                                                                                                                                 | 测试日期<br>Test date       | 2026-03-26 ~ 2026-04-28  |
| 测试项目<br>Test items          | 高度模拟、温度试验、振动、冲击、外部短路、挤压、过度充电、强制放电。<br>Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Crush, Overcharge, Forced discharge.                   |                                                                                                                                                                                                                                                 |                         |                          |
| 测试结论<br>Conclusion          | 经测试, 样品符合联合国《试验和标准手册》(第 8 版+修订 1) 38.3 节标准要求。<br>The sample has passed the test items of UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.8+Amend.1/ Subsection 38.3. |                                                                                                                                                                                                                                                 |                         |                          |
| 主检人:<br>Tested by:          | 李城志 Li chengzhi                                                                                                                                                           |                                                                                                                                                                                                                                                 | 批准人:<br>Approved by:    | 程鹏 Roc Cheng             |
| 职位 Position:                | 测试工程师 Test Engineer                                                                                                                                                       |                                                                                                                                                                                                                                                 | 职位 Position:            | 技术负责人 Technical Manager  |
| 审核人:<br>Inspected by:       | 赵楠楠 ZhaoNanNan                                                                                                                                                            |                                                                                                                                                                                                                                                 | 签发日期:<br>Date of Issue: | 2026-04-28               |
| 职位 Position:                | 项目工程师 Project Engineer                                                                                                                                                    |                                                                                                                                                                                                                                                 |                         |                          |

| 基本信息 General Information:                  |                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------|
| 产品名称 .....                                 | USB 可充式锂离子电池                                                                      |
| Product name .....                         | USB Rechargeable Lithium-Ion Battery                                              |
| 型号参数                                       |                                                                                   |
| Model and Parameters .....                 | D, 1.5V, 13500mWh(built-in cell: 3.8V 1250mAh 4.75Wh)                             |
| 商标                                         |                                                                                   |
| Trade Mark.....                            |  |
| 技术参数 Technical Parameters:                 |                                                                                   |
| 电池 Cell                                    |                                                                                   |
| 型号 Model                                   | INR15/51                                                                          |
| 形状 Shape                                   | 近圆柱体 Approximate Cylinder                                                         |
| 标称电压 Nominal Voltage                       | 3.8V                                                                              |
| 额定容量 Rated Capacity                        | 1250mAh                                                                           |
| 标准充电电流 Standard Charge Current             | 250mA                                                                             |
| 标准放电电流 Standard Discharge Current          | 250mA                                                                             |
| 最大持续充电电流 Max. Continuous Charge Current    | 1250mA                                                                            |
| 最大持续放电电流 Max. Continuous Discharge Current | 2500mA                                                                            |
| 充电截止电流 End Charge Current                  | 12.5mA                                                                            |
| 最大充电电压 Max. Charge Voltage                 | 4.45V                                                                             |
| 放电终止电压 Discharge Cut-off Voltage           | 2.5V                                                                              |
| 电池组 Battery                                |                                                                                   |
| 型号 Model                                   | D                                                                                 |
| 形状 Shape                                   | 近圆柱体 Approximate Cylinder                                                         |
| 标称电压 Nominal Voltage                       | 1.5V(built-in cell:3.8V)                                                          |
| 额定能量 Rated Energy                          | 13500mWh(built-in cell: 1250mAh 4.75Wh)                                           |
| 输入 Input                                   | 5V/500mA                                                                          |
| 输出 Output                                  | 1.5V/9000mA                                                                       |
| 电池连接方式 Cell configuration                  | 1S3P                                                                              |

| 序号<br>No. | 测试项目名称<br>Name of test            | 标准要求或标准条款号<br>Standard requirement or the clause<br>number of standard                                                               | 测试结果<br>Test<br>result                   | 本项结论<br>Test<br>conclusion | 备注<br>Remarks |
|-----------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------|---------------|
| 1         | 高度模拟<br>Altitude<br>simulation    | 联合国《试验和标准手册》(第8版+修订1)<br>38.3 节 UN "Manual of Tests and Criteria"<br>ST/SG/AC.10/11/Rev.8+Amend.1/Subsection<br>38.3 试验 T.1 Test T.1 | 见附表<br>38.3.4.1<br>See Table<br>38.3.4.1 | 合格<br>Passed               | /             |
| 2         | 温度试验<br>Thermal test              | 联合国《试验和标准手册》(第8版+修订1)<br>38.3 节 UN "Manual of Tests and Criteria"<br>ST/SG/AC.10/11/Rev.8+Amend.1/Subsection<br>38.3 试验 T.2 Test T.2 | 见附表<br>38.3.4.2<br>See Table<br>38.3.4.2 | 合格<br>Passed               | /             |
| 3         | 振动<br>Vibration                   | 联合国《试验和标准手册》(第8版+修订1)<br>38.3 节 UN "Manual of Tests and Criteria"<br>ST/SG/AC.10/11/Rev.8+Amend.1/Subsection<br>38.3 试验 T.3 Test T.3 | 见附表<br>38.3.4.3<br>See Table<br>38.3.4.3 | 合格<br>Passed               | /             |
| 4         | 冲击<br>Shock                       | 联合国《试验和标准手册》(第8版+修订1)<br>38.3 节 UN "Manual of Tests and Criteria"<br>ST/SG/AC.10/11/Rev.8+Amend.1/Subsection<br>38.3 试验 T.4 Test T.4 | 见附表<br>38.3.4.4<br>See Table<br>38.3.4.4 | 合格<br>Passed               | /             |
| 5         | 外部短路<br>External short<br>circuit | 联合国《试验和标准手册》(第8版+修订1)<br>38.3 节 UN "Manual of Tests and Criteria"<br>ST/SG/AC.10/11/Rev.8+Amend.1/Subsection<br>38.3 试验 T.5 Test T.5 | 见附表<br>38.3.4.5<br>See Table<br>38.3.4.5 | 合格<br>Passed               | /             |
| 6         | 挤压<br>Crush                       | 联合国《试验和标准手册》(第8版+修订1)<br>38.3 节 UN "Manual of Tests and Criteria"<br>ST/SG/AC.10/11/Rev.8+Amend.1/Subsection<br>38.3 试验 T.6 Test T.6 | 见附表<br>38.3.4.6<br>See Table<br>38.3.4.6 | 合格<br>Passed               | /             |
| 7         | 过度充电<br>Overcharge                | 联合国《试验和标准手册》(第8版+修订1)<br>38.3 节 UN "Manual of Tests and Criteria"<br>ST/SG/AC.10/11/Rev.8+Amend.1/Subsection<br>38.3 试验 T.7 Test T.7 | 见附表<br>38.3.4.7<br>See Table<br>38.3.4.7 | 合格<br>Passed               | /             |
| 8         | 强制放电<br>Forced<br>discharge       | 联合国《试验和标准手册》(第8版+修订1)<br>38.3 节 UN "Manual of Tests and Criteria"<br>ST/SG/AC.10/11/Rev.8+Amend.1/Subsection<br>38.3 试验 T.8 Test T.8 | 见附表<br>38.3.4.8<br>See Table<br>38.3.4.8 | 合格<br>Passed               | /             |

| TABLE: 38.3.4.1                                                                                                                                                                          |                                                                       | 高度模拟 Altitude simulation |                |         |                       |                              |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------|----------------|---------|-----------------------|------------------------------|---------------------|
| 样品编号<br>Sample No.                                                                                                                                                                       | 测试前 Before Test                                                       |                          | 测试后 After Test |         | 质量损失<br>Mass loss (%) | 剩余电压<br>Residual Voltage (%) | 测试结果<br>Test result |
|                                                                                                                                                                                          | Mass (g)                                                              | OCV (V)                  | Mass (g)       | OCV (V) |                       |                              |                     |
| B01                                                                                                                                                                                      | 79.468                                                                | 1.63                     | 79.466         | 1.63    | 0.003                 | 100.00                       | O                   |
| B02                                                                                                                                                                                      | 79.705                                                                | 1.62                     | 79.704         | 1.62    | 0.001                 | 100.00                       | O                   |
| B03                                                                                                                                                                                      | 79.577                                                                | 1.61                     | 79.576         | 1.61    | 0.001                 | 100.00                       | O                   |
| B04                                                                                                                                                                                      | 79.488                                                                | 1.63                     | 79.486         | 1.63    | 0.003                 | 100.00                       | O                   |
| B05                                                                                                                                                                                      | 79.852                                                                | 1.62                     | 79.851         | 1.62    | 0.001                 | 100.00                       | O                   |
| B06                                                                                                                                                                                      | 79.816                                                                | 1.63                     | 79.814         | 1.63    | 0.003                 | 100.00                       | O                   |
| B07                                                                                                                                                                                      | 79.760                                                                | 1.62                     | 79.758         | 1.62    | 0.003                 | 100.00                       | O                   |
| B08                                                                                                                                                                                      | 79.812                                                                | 1.63                     | 79.811         | 1.63    | 0.001                 | 100.00                       | O                   |
| No. B01-B04:<br>编号 B01-B04:                                                                                                                                                              | At first cycle, in fully charged states<br>第 1 个充放电周期, 完全充电状态         |                          |                |         |                       |                              |                     |
| No. B05-B08:<br>编号 B05-B08:                                                                                                                                                              | After 25 cycles ending in fully charged states<br>第 25 个充放电周期, 完全充电状态 |                          |                |         |                       |                              |                     |
| 注: L-泄露; V-排气; D-解体; R-破裂; F-起火; O-无泄露、无排气、无解体、无破裂、无起火<br>Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire<br>O-No leakage, no venting, no disassembly, no rupture, no fire. |                                                                       |                          |                |         |                       |                              |                     |

| TABLE: 38.3.4.2             |                                                                       | 温度试验 Thermal test |                |         |                       |                              |                     |
|-----------------------------|-----------------------------------------------------------------------|-------------------|----------------|---------|-----------------------|------------------------------|---------------------|
| 样品编号<br>Sample No.          | 测试前 Before Test                                                       |                   | 测试后 After Test |         | 质量损失<br>Mass loss (%) | 剩余电压<br>Residual Voltage (%) | 测试结果<br>Test result |
|                             | Mass (g)                                                              | OCV (V)           | Mass (g)       | OCV (V) |                       |                              |                     |
| B01                         | 79.466                                                                | 1.63              | 79.447         | 1.61    | 0.024                 | 98.77                        | O                   |
| B02                         | 79.704                                                                | 1.62              | 79.685         | 1.59    | 0.024                 | 98.15                        | O                   |
| B03                         | 79.576                                                                | 1.61              | 79.556         | 1.59    | 0.025                 | 98.76                        | O                   |
| B04                         | 79.486                                                                | 1.63              | 79.466         | 1.60    | 0.025                 | 98.16                        | O                   |
| B05                         | 79.851                                                                | 1.62              | 79.832         | 1.60    | 0.024                 | 98.77                        | O                   |
| B06                         | 79.814                                                                | 1.63              | 79.793         | 1.61    | 0.026                 | 98.77                        | O                   |
| B07                         | 79.758                                                                | 1.62              | 79.739         | 1.59    | 0.024                 | 98.15                        | O                   |
| B08                         | 79.811                                                                | 1.63              | 79.792         | 1.61    | 0.024                 | 98.77                        | O                   |
| No. B01-B04:<br>编号 B01-B04: | At first cycle, in fully charged states<br>第 1 个充放电周期, 完全充电状态         |                   |                |         |                       |                              |                     |
| No. B05-B08:<br>编号 B05-B08: | After 25 cycles ending in fully charged states<br>第 25 个充放电周期, 完全充电状态 |                   |                |         |                       |                              |                     |

注: L-泄露; V-排气; D-解体; R-破裂; F-起火; O-无泄露、无排气、无解体、无破裂、无起火  
 Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire  
 O-No leakage, no venting, no disassembly, no rupture, no fire.

| TABLE: 38.3.4.3             |                                                                       | 振动 Vibration |                |         |                       |                              |                     |
|-----------------------------|-----------------------------------------------------------------------|--------------|----------------|---------|-----------------------|------------------------------|---------------------|
| 样品编号<br>Sample No.          | 测试前 Before Test                                                       |              | 测试后 After Test |         | 质量损失<br>Mass loss (%) | 剩余电压<br>Residual Voltage (%) | 测试结果<br>Test result |
|                             | Mass (g)                                                              | OCV (V)      | Mass (g)       | OCV (V) |                       |                              |                     |
| B01                         | 79.447                                                                | 1.61         | 79.447         | 1.61    | 0.000                 | 100.00                       | O                   |
| B02                         | 79.685                                                                | 1.59         | 79.685         | 1.59    | 0.000                 | 100.00                       | O                   |
| B03                         | 79.556                                                                | 1.59         | 79.555         | 1.59    | 0.001                 | 100.00                       | O                   |
| B04                         | 79.466                                                                | 1.60         | 79.466         | 1.60    | 0.000                 | 100.00                       | O                   |
| B05                         | 79.832                                                                | 1.60         | 79.832         | 1.60    | 0.000                 | 100.00                       | O                   |
| B06                         | 79.793                                                                | 1.61         | 79.792         | 1.61    | 0.001                 | 100.00                       | O                   |
| B07                         | 79.739                                                                | 1.59         | 79.739         | 1.59    | 0.000                 | 100.00                       | O                   |
| B08                         | 79.792                                                                | 1.61         | 79.792         | 1.61    | 0.000                 | 100.00                       | O                   |
| No. B01-B04:<br>编号 B01-B04: | At first cycle, in fully charged states<br>第 1 个充放电周期, 完全充电状态         |              |                |         |                       |                              |                     |
| No. B05-B08:<br>编号 B05-B08: | After 25 cycles ending in fully charged states<br>第 25 个充放电周期, 完全充电状态 |              |                |         |                       |                              |                     |

注: L-泄露; V-排气; D-解体; R-破裂; F-起火; O-无泄露、无排气、无解体、无破裂、无起火  
 Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire  
 O-No leakage, no venting, no disassembly, no rupture, no fire.

| TABLE: 38.3.4.4                                                                                                                                                                          |                                                                       | 冲击 Shock |                |         |                       |                              |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------|----------------|---------|-----------------------|------------------------------|---------------------|
| 样品编号<br>Sample No.                                                                                                                                                                       | 测试前 Before Test                                                       |          | 测试后 After Test |         | 质量损失<br>Mass loss (%) | 剩余电压<br>Residual Voltage (%) | 测试结果<br>Test result |
|                                                                                                                                                                                          | Mass (g)                                                              | OCV (V)  | Mass (g)       | OCV (V) |                       |                              |                     |
| B01                                                                                                                                                                                      | 79.447                                                                | 1.61     | 79.446         | 1.61    | 0.001                 | 100.00                       | O                   |
| B02                                                                                                                                                                                      | 79.685                                                                | 1.59     | 79.685         | 1.59    | 0.000                 | 100.00                       | O                   |
| B03                                                                                                                                                                                      | 79.555                                                                | 1.59     | 79.555         | 1.59    | 0.000                 | 100.00                       | O                   |
| B04                                                                                                                                                                                      | 79.466                                                                | 1.60     | 79.466         | 1.60    | 0.000                 | 100.00                       | O                   |
| B05                                                                                                                                                                                      | 79.832                                                                | 1.60     | 79.832         | 1.60    | 0.000                 | 100.00                       | O                   |
| B06                                                                                                                                                                                      | 79.792                                                                | 1.61     | 79.792         | 1.61    | 0.000                 | 100.00                       | O                   |
| B07                                                                                                                                                                                      | 79.739                                                                | 1.59     | 79.738         | 1.59    | 0.001                 | 100.00                       | O                   |
| B08                                                                                                                                                                                      | 79.792                                                                | 1.61     | 79.792         | 1.61    | 0.000                 | 100.00                       | O                   |
| No. B01-B04:<br>编号 B01-B04:                                                                                                                                                              | At first cycle, in fully charged states<br>第 1 个充放电周期, 完全充电状态         |          |                |         |                       |                              |                     |
| No. B05-B08:<br>编号 B05-B08:                                                                                                                                                              | After 25 cycles ending in fully charged states<br>第 25 个充放电周期, 完全充电状态 |          |                |         |                       |                              |                     |
| 注: L-泄露; V-排气; D-解体; R-破裂; F-起火; O-无泄露、无排气、无解体、无破裂、无起火<br>Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire<br>O-No leakage, no venting, no disassembly, no rupture, no fire. |                                                                       |          |                |         |                       |                              |                     |



| TABLE: 38.3.4.5                                                                                                                                                             | 外部短路 External short circuit                                           |                                                         |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------|---------------------|
| 样品编号<br>Sample No.                                                                                                                                                          | 电路的电阻<br>Resistance of<br>circuit (mΩ)                                | 样品测量最高温度<br>Measured maximum sample<br>temperature (°C) | 测试结果<br>Test result |
| B01                                                                                                                                                                         | 90.1                                                                  | 57.8                                                    | O                   |
| B02                                                                                                                                                                         | 91.2                                                                  | 57.4                                                    | O                   |
| B03                                                                                                                                                                         | 89.4                                                                  | 57.2                                                    | O                   |
| B04                                                                                                                                                                         | 88.5                                                                  | 57.7                                                    | O                   |
| B05                                                                                                                                                                         | 89.7                                                                  | 58.3                                                    | O                   |
| B06                                                                                                                                                                         | 90.5                                                                  | 57.4                                                    | O                   |
| B07                                                                                                                                                                         | 89.7                                                                  | 57.6                                                    | O                   |
| B08                                                                                                                                                                         | 86.8                                                                  | 57.3                                                    | O                   |
| No. B01-B04:<br>编号 B01-B04:                                                                                                                                                 | At first cycle, in fully charged states<br>第 1 个充放电周期, 完全充电状态         |                                                         |                     |
| No. B05-B08:<br>编号 B05-B08:                                                                                                                                                 | After 25 cycles ending in fully charged states<br>第 25 个充放电周期, 完全充电状态 |                                                         |                     |
| 注: D-解体; R-破裂; F-起火; O-无解体、无破裂、无起火、外表温度不超过 170° C<br>Note: D-Disassembly, R-Rupture, F-Fire, O- No disassembly, no rupture, no fire, external temperature not exceed 170°C. |                                                                       |                                                         |                     |

| TABLE: 38.3.4.6                                                                                                                            |                                                                               | 挤压 Crush                                  |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------|---------------------|
| 样品编号<br>Sample No.                                                                                                                         | 开路电压<br>OCV (V)                                                               | 样品表面最高温度<br>Maximum case temperature (°C) | 测试结果<br>Test result |
| C01                                                                                                                                        | 3.74                                                                          | 23.6                                      | O                   |
| C02                                                                                                                                        | 3.73                                                                          | 23.4                                      | O                   |
| C03                                                                                                                                        | 3.74                                                                          | 24.3                                      | O                   |
| C04                                                                                                                                        | 3.73                                                                          | 24.5                                      | O                   |
| C05                                                                                                                                        | 3.73                                                                          | 23.9                                      | O                   |
| C06                                                                                                                                        | 3.74                                                                          | 23.8                                      | O                   |
| C07                                                                                                                                        | 3.74                                                                          | 24.1                                      | O                   |
| C08                                                                                                                                        | 3.73                                                                          | 24.0                                      | O                   |
| C09                                                                                                                                        | 3.74                                                                          | 23.6                                      | O                   |
| C10                                                                                                                                        | 3.73                                                                          | 23.9                                      | O                   |
| No. C01-C05:<br>编号 C01-C05:                                                                                                                | At first cycle at 50% of the design rated capacity<br>第 1 个充放电周期 50%设计额定容量状态  |                                           |                     |
| No. C06-C10:<br>编号 C06-C10:                                                                                                                | After 25 cycle at 50% of the design rated capacity<br>第 25 个充放电周期 50%设计额定容量状态 |                                           |                     |
| 注: D-解体; F-起火; O-无解体、无起火、外表温度不超过 170° C<br>Note: D-Disassembly, F-Fire, O- No disassembly, no fire, external temperature not exceed 170°C. |                                                                               |                                           |                     |

| TABLE: 38.3.4.7                                                                      | 过度充电 Overcharge                                                       |                     |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------|
| 样品编号<br>Sample No.                                                                   | 开路电压<br>OCV (V)                                                       | 测试结果<br>Test result |
| B09                                                                                  | 1.63                                                                  | O                   |
| B10                                                                                  | 1.62                                                                  | O                   |
| B11                                                                                  | 1.61                                                                  | O                   |
| B12                                                                                  | 1.63                                                                  | O                   |
| B13                                                                                  | 1.63                                                                  | O                   |
| B14                                                                                  | 1.62                                                                  | O                   |
| B15                                                                                  | 1.61                                                                  | O                   |
| B16                                                                                  | 1.63                                                                  | O                   |
| No. B09-B12:<br>编号 B09-B12:                                                          | At first cycle, in fully charged states<br>第 1 个充放电周期, 完全充电状态         |                     |
| No. B13-B16:<br>编号 B13-B16:                                                          | After 25 cycles ending in fully charged states<br>第 25 个充放电周期, 完全充电状态 |                     |
| 注: D-解体; F-起火; O-无解体、无起火<br>Note: D-Disassembly, F-Fire, O- No disassembly, no fire. |                                                                       |                     |

| TABLE: 38.3.4.8                                                                      |                                                                         | 强制放电 Forced discharge |                     |                 |                     |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------|---------------------|-----------------|---------------------|
| 样品编号<br>Sample No.                                                                   | 开路电压<br>OCV (V)                                                         | 测试结果<br>Test result   | 样品编号<br>Sample No.. | 开路电压<br>OCV (V) | 测试结果<br>Test result |
| C11                                                                                  | 2.83                                                                    | O                     | C21                 | 2.83            | O                   |
| C12                                                                                  | 2.83                                                                    | O                     | C22                 | 2.84            | O                   |
| C13                                                                                  | 2.83                                                                    | O                     | C23                 | 2.83            | O                   |
| C14                                                                                  | 2.84                                                                    | O                     | C24                 | 2.84            | O                   |
| C15                                                                                  | 2.83                                                                    | O                     | C25                 | 2.82            | O                   |
| C16                                                                                  | 2.84                                                                    | O                     | C26                 | 2.82            | O                   |
| C17                                                                                  | 2.84                                                                    | O                     | C27                 | 2.85            | O                   |
| C18                                                                                  | 2.83                                                                    | O                     | C28                 | 2.84            | O                   |
| C19                                                                                  | 2.83                                                                    | O                     | C29                 | 2.85            | O                   |
| C20                                                                                  | 2.84                                                                    | O                     | C30                 | 2.83            | O                   |
| No. C11-C20:<br>编号 C11-C20:                                                          | At first cycle in fully discharged states<br>第 1 个充放电周期，完全放电状态          |                       |                     |                 |                     |
| No. C21-C30:<br>编号 C21-C30:                                                          | After 25 cycles ending in fully discharged states<br>第 25 个充放电周期，完全放电状态 |                       |                     |                 |                     |
| 注： D-解体； F-起火； O-无解体、无起火<br>Note: D-Disassembly, F-Fire, O- No disassembly, no fire. |                                                                         |                       |                     |                 |                     |

电池组照片 Battery photos





电池照片 Cell photos



电池组铭牌 Battery label



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|                          |                                                                                                                           |
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