

# UN38.3 测试概要

## UN38.3 Test Summary

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|-------------------------------|-----------------------------------------------------|
| 委托单位名称<br>Client Name         | 纳恩博（常州）科技有限公司<br>Ninebot (Changzhou) Tech Co., Ltd. |
| 产 品 名 称<br>Name of product    | 锂离子电池组<br>LI-ION BATTERY PACK                       |
| 制 造 厂 商<br>Manufacturer       | 纳恩博（常州）科技有限公司<br>Ninebot (Changzhou) Tech Co., Ltd. |
| 商 标 型 号<br>Trade mark & model | NZDF3608A                                           |



中检集团南方测试股份有限公司  
CCIC Southern Testing Co., Ltd.

地址：广东省深圳市南山区西丽街道沙河路 43 号电子检测大厦 邮政编码/P.C.: 518055  
Address: Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China  
电话/TEL: 86-755-26627338 网址/Internet: [http:// www.ccic-set.com](http://www.ccic-set.com)  
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| 按照《试验和标准手册》第 38.3 小节对锂电池或电池组进行试验的情况概要<br>Lithium cell or battery test summary in accordance with sub-section 38.3 of Manual of Tests and Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                        |                                             |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 产品名称<br>Product Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 锂离子电池组<br>LI-ION BATTERY PACK                                                                                                                                                                          | 额定能量<br>Rated Energy                        | 276Wh                                                                                                                                     |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 型号规格<br>Model/Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NZDF3608A<br>36V/7650mAh                                                                                                                                                                               | 锂含量<br>Lithium Content                      | --                                                                                                                                        |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 外观<br>Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 黑色近长方体 Approximate Black Cuboid                                                                                                                                                                        |                                             |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 质量<br>Mass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 大约 1.84 kg                                                                                                                                                                                             | 产品类型<br>Product Type                        | 锂离子电池组 Lithium ion battery                                                                                                                |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 制造厂商<br>Manufacturer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 纳恩博（常州）科技有限<br>公司<br>Ninebot (Changzhou) Tech<br>Co., Ltd.                                                                                                                                             | 制造厂商地址<br>Manufacturer<br>Address           | 常州市武进区常武中路 18 号常州科<br>教城创研港 3 号楼 A 座 16、17 层<br>16F-17F, Block A, Building 3,<br>Changwu Mid Road 18#, Wujin Dist.,<br>Changzhou, Jiangsu |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 制造商电话<br>Manufacturertelephone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0519-69657964                                                                                                                                                                                          | 制造商网址<br>Manufacturerwebsite                | www.ninebot.com                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 制造商邮箱<br>Manufacturer Email                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | service@ninebot.com                                                                                                                                                                                    | 集成电池组说明<br>Assembled Battery<br>Description | --                                                                                                                                        |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| UN 报告测试日期<br>UN Report Test Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2024/12/18—2025/01/14                                                                                                                                                                                  | UN38.3 Rep No.<br>UN38.3 报告编号               | SET-20241206W27002                                                                                                                        |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 测试实验室<br>Testing laboratory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 名称 Name: 中检集团南方测试股份有限公司<br>地址 Address: 广东省深圳市南山区西丽街道沙河路 43 号电子检测大厦<br>电话 Phone number: 86-755-26627338 网址 Website: http:// www.ccic-set.com<br>电子邮箱 Email address: manager@ccic-set.com                |                                             |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 检测依据<br>Reference documents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 《关于危险货物运输的建议书 试验和标准手册》第八修订版 ST/SG/AC.10/11/Rev.8<br>UN38.3<br>《Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria》<br>Eighth revised edition ST/SG/AC.10/11/Rev.8 UN38.3 |                                             |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 所进行的试验及其结果一览表 List of tests conducted and results:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                        |                                             |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| <table><tr><td>测试编号 Test No.</td><td>测试项目 Test Items</td><td>结论 Verdict</td></tr><tr><td>38.3.4.1</td><td>高度模拟 Altitude simulation</td><td>通过 Pass</td></tr><tr><td>38.3.4.2</td><td>温度试验 Thermal test</td><td>通过 Pass</td></tr><tr><td>38.3.4.3</td><td>振动 Vibration</td><td>通过 Pass</td></tr><tr><td>38.3.4.4</td><td>冲击 Shock</td><td>通过 Pass</td></tr><tr><td>38.3.4.5</td><td>外部短路 External short circuit</td><td>通过 Pass</td></tr><tr><td>38.3.4.6</td><td>撞击/挤压 Impact/Crush</td><td>通过 Pass</td></tr><tr><td>38.3.4.7</td><td>过充电 Overcharge</td><td>通过 Pass</td></tr><tr><td>38.3.4.8</td><td>强制放电 Forced discharge</td><td>通过 Pass</td></tr></table> |                                                                                                                                                                                                        |                                             |                                                                                                                                           | 测试编号 Test No. | 测试项目 Test Items | 结论 Verdict | 38.3.4.1 | 高度模拟 Altitude simulation | 通过 Pass | 38.3.4.2 | 温度试验 Thermal test | 通过 Pass | 38.3.4.3 | 振动 Vibration | 通过 Pass | 38.3.4.4 | 冲击 Shock | 通过 Pass | 38.3.4.5 | 外部短路 External short circuit | 通过 Pass | 38.3.4.6 | 撞击/挤压 Impact/Crush | 通过 Pass | 38.3.4.7 | 过充电 Overcharge | 通过 Pass | 38.3.4.8 | 强制放电 Forced discharge | 通过 Pass |
| 测试编号 Test No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 测试项目 Test Items                                                                                                                                                                                        | 结论 Verdict                                  |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 38.3.4.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 高度模拟 Altitude simulation                                                                                                                                                                               | 通过 Pass                                     |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 38.3.4.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 温度试验 Thermal test                                                                                                                                                                                      | 通过 Pass                                     |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 38.3.4.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 振动 Vibration                                                                                                                                                                                           | 通过 Pass                                     |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 38.3.4.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 冲击 Shock                                                                                                                                                                                               | 通过 Pass                                     |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 38.3.4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 外部短路 External short circuit                                                                                                                                                                            | 通过 Pass                                     |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 38.3.4.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 撞击/挤压 Impact/Crush                                                                                                                                                                                     | 通过 Pass                                     |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 38.3.4.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 过充电 Overcharge                                                                                                                                                                                         | 通过 Pass                                     |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |
| 38.3.4.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 强制放电 Forced discharge                                                                                                                                                                                  | 通过 Pass                                     |                                                                                                                                           |               |                 |            |          |                          |         |          |                   |         |          |              |         |          |          |         |          |                             |         |          |                    |         |          |                |         |          |                       |         |

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|---------------------|-----|------------|------------------|
| 主 检:<br>Tested by   | 唐善贤 | 日期<br>Date | 2025 年 01 月 10 日 |
| 审 核:<br>Reviewed by | 赵阳阳 | 日期<br>Date | 2025 年 01 月 10 日 |
| 批 准:<br>Approved by | 印 磊 | 日期<br>Date | 2025 年 01 月 10 日 |
| 备注:                 |     |            |                  |

