



中国认可  
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CNAS L5772



# UN38.3 测试报告

## UN38.3 Test Report

报告编号

PTC24040716301S-LD01

Report No.

样品名称及型号

二次锂电池组 361-00181-31

Sample Name  
& Model

Rechargeable Li-ion Battery 361-00181-31

委托单位

东莞新能源科技有限公司

Consignor

Dongguan Amperex Technology Limited

精准通检测认证(广东)有限公司  
Precise Testing & Certification (Guangdong) Co., Ltd.



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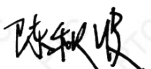


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|  |   |                     |   |
|--|---|---------------------|---|
| 委托人<br>Applicant                       | 东莞新能源科技有限公司<br>Dongguan Amperex Technology Limited  |                     |   |
| 委托人地址<br>Applicant's address           | 中国广东省东莞市松山湖科技园工业西路1号<br>West Industrial Road 1#, Songshan Lake Industry Park, Dongguan City, Guangdong Province, P. R. China  |                     |   |
| 制造商<br>Manufacturer                    | 东莞新能源科技有限公司<br>Dongguan Amperex Technology Limited  |                     |   |
| 制造商地址<br>Manufacturer's address        | 中国广东省东莞市松山湖科技园工业西路1号<br>West Industrial Road 1#, Songshan Lake Industry Park, Dongguan City, Guangdong Province, P. R. China  |                     |   |
| 联系电话<br>Telephone Number               | +86-0769-88989338   |                     |   |
| 邮件地址<br>Email address                  | SSL-Reception@ATLBattery.com  |                     |   |
| 网址<br>Website                          | www.atlbattery.com  |                     |   |
| 样品名称<br>Sample Name                    | 二次锂电池组<br>Rechargeable Li-ion Battery   |                     |   |
| 样品型号<br>Sample Model                   | 361-00181-31  |                     |   |
| 样品外观<br>Appearance                     | 银色近长方体, 尺寸: 5.81*25.1*34.35mm<br>Silver almost Cuboid, size: 5.81*25.1*34.35mm  |                     |   |
| 商标<br>Trademark                        | /   |                     |   |
| 测试方法和判定标准<br>Test method and criterion | 联合国《试验和标准手册》(第七修订版修正1) 38.3 节<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Amend.1/Subsection 38.3   |                     |   |
| 样品接收日期<br>Accepted date                | 2024/3/19   | 测试起讫日期<br>Test date | 2024.3.19~2024.4.9  |
| 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                     | 检验结论:<br>Test conclusion:<br>由东莞新能源科技有限公司送检的二次锂电池组, 根据联合国《试验和标准手册》(第七修订版修正1) 38.3 节进行检测。<br>The Rechargeable Li-ion Battery submitted by Dongguan Amperex Technology Limited are tested according to UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Amend.1/Subsection 38.3.<br>检验结果: 通过<br>Test result: Pass<br>签发日期(Issue date): 2024/4/9 |                     |   |
| 主检<br>Tested by:                       |    | 审核<br>Checked by:   |    |
|  |   | 批准<br>Approved by:  |  |





| 参数信息<br>Parameter information        |            |                 |
|--------------------------------------|------------|-----------------|
| 产品<br>Product                        | 电芯<br>Cell | 电池<br>Battery   |
| 型号<br>Model                          | 572534     | 361-00181-31    |
| 标称电压<br>Nominal Voltage              | 3.91V      | 3.91V           |
| 额定容量<br>Rated Capacity               | 785mAh     | 779mAh (3.05Wh) |
| 充电限制电压<br>Limited Charge Voltage     | 4.5V       | 4.5V            |
| 标准充电电流<br>Standard Charge Current    | 157mA      | 155.8mA         |
| 标准放电电流<br>Standard Discharge Current | 157mA      | 155.8mA         |
| 最大充电电流<br>Max Charge Current         | 785mA      | 779mA           |
| 最大放电电流<br>Max Discharge Current      | 785mA      | 779mA           |
| 充电截止电流<br>End Charge Current         | 15.7mA     | 15.58mA         |
| 终止电压<br>Cut-off Voltage              | 3V         | 3V              |
| 重量<br>Weight                         | -          | 10.4g           |
| 电芯个数<br>Cells Number                 | 1pcs(1S1P) |                 |



| 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 number of standard   | 测试结果<br>Test result    | 本项结论<br>Test conclusion | 备注<br>Remarks |
|--------------------------------------|--------------------------------|---|------------------------|-------------------------|---------------|
| 1                                    | 高度模拟<br>Altitude simulation    | 联合国《试验和标准手册》（第七修订版修正1）38.3节<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7<br>Amend.1/Subsection 38.3<br>试验 T.1 Test T.1 | 见附表1<br>See Appendix 1 | 合格<br>Passed            | /             |
| 2                                    | 温度试验<br>Thermal test           | 联合国《试验和标准手册》（第七修订版修正1）38.3节<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7<br>Amend.1/Subsection 38.3<br>试验 T.2 Test T.2 | 见附表2<br>See Appendix 2 | 合格<br>Passed            | /             |
| 3                                    | 振动<br>Vibration                | 联合国《试验和标准手册》（第七修订版修正1）38.3节<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7<br>Amend.1/Subsection 38.3<br>试验 T.3 Test T.3 | 见附表3<br>See Appendix 3 | 合格<br>Passed            | /             |
| 4                                    | 冲击<br>Shock                    | 联合国《试验和标准手册》（第七修订版修正1）38.3节<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7<br>Amend.1/Subsection 38.3<br>试验 T.4 Test T.4 | 见附表4<br>See Appendix 4 | 合格<br>Passed            | /             |
| 5                                    | 外部短路<br>External short circuit | 联合国《试验和标准手册》（第七修订版修正1）38.3节<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7<br>Amend.1/Subsection 38.3<br>试验 T.5 Test T.5 | 见附表5<br>See Appendix 5 | 合格<br>Passed            | /             |
| 6                                    | 挤压<br>Crush                    | 联合国《试验和标准手册》（第七修订版修正1）38.3节<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7<br>Amend.1/Subsection 38.3<br>试验 T.6 Test T.6 | 见附表6<br>See Appendix 6 | 合格<br>Passed            | /             |
| 7                                    | 过度充电<br>Overcharge             | 联合国《试验和标准手册》（第七修订版修正1）38.3节<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7<br>Amend.1/Subsection 38.3<br>试验 T.7 Test T.7 | 见附表7<br>See Appendix 7 | 合格<br>Passed            | /             |
| 8                                    | 强制放电<br>Forced discharge       | 联合国《试验和标准手册》（第七修订版修正1）38.3节<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7<br>Amend.1/Subsection 38.3<br>试验 T.8 Test T.8 | 见附表8<br>See Appendix 8 | 合格<br>Passed            | /             |
| 测试环境条件<br>Test environment condition |                                | 环境温度：20℃-25℃；环境湿度：45%-75%<br>Ambient temperature: 20℃-25℃; Ambient humidity: 45%-75%  |                        |                         |               |

















附表 8  
Appendix 8

| 序号<br>No.  | 8                                   | 测试项目名称<br>Name of Test Items | 强制放电<br>Forced discharge |
|--|-------------------------------------|------------------------------|--------------------------|
| 样品编号<br>Sample No  | 样品状态<br>Sample status               | 测试结果<br>Test result          | 备注<br>Remark             |
| C11  | 首次完全放电<br>1 CYC Fully Discharged    | O                            | /                        |
| C12  | 首次完全放电<br>1 CYC Fully Discharged    | O                            | /                        |
| C13  | 首次完全放电<br>1 CYC Fully Discharged    | O                            | /                        |
| C14  | 首次完全放电<br>1 CYC Fully Discharged    | O                            | /                        |
| C15  | 首次完全放电<br>1 CYC Fully Discharged    | O                            | /                        |
| C16  | 首次完全放电<br>1 CYC Fully Discharged    | O                            | /                        |
| C17  | 首次完全放电<br>1 CYC Fully Discharged    | O                            | /                        |
| C18  | 首次完全放电<br>1 CYC Fully Discharged    | O                            | /                        |
| C19  | 首次完全放电<br>1 CYC Fully Discharged    | O                            | /                        |
| C20  | 首次完全放电<br>1 CYC Fully Discharged    | O                            | /                        |
| C21  | 25 次完全放电<br>25 CYC Fully Discharged | O                            | /                        |
| C22  | 25 次完全放电<br>25 CYC Fully Discharged | O                            | /                        |
| C23  | 25 次完全放电<br>25 CYC Fully Discharged | O                            | /                        |
| C24  | 25 次完全放电<br>25 CYC Fully Discharged | O                            | /                        |
| C25  | 25 次完全放电<br>25 CYC Fully Discharged | O                            | /                        |
| C26  | 25 次完全放电<br>25 CYC Fully Discharged | O                            | /                        |
| C27  | 25 次完全放电<br>25 CYC Fully Discharged | O                            | /                        |
| C28  | 25 次完全放电<br>25 CYC Fully Discharged | O                            | /                        |
| C29  | 25 次完全放电<br>25 CYC Fully Discharged | O                            | /                        |
| C30  | 25 次完全放电<br>25 CYC Fully Discharged | O                            | /                        |
| 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. |                                     |                              |                          |

### 样品图片 Sample Photo





## 注意事项

### Important Notice

1. The test report is invalid without the official stamp of PTC.

本报告书无 PTC 盖章无效。

2. The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.

本报告书无批准人、审核人、及主检人签名无效。

3. Nobody is allowed to partly photocopy this test report without written permission of PTC

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4. The report is invalid when anything of following happens – illegal transfer, reproduce, embezzlement, imposture, modification or tampering in any media form.

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5. Product information and customer information provided by the applicant, we are not responsible for its authenticity

产品信息和客户信息由申请人提供，我们不对其真实性负责。

6. The test report is valid for the tested samples only.

本报告仅对本次测试样品有效。

7. The Chinese contents in this report are only for reference.

本报告中的中文内容仅供参考。

8. Objections to the test report must be submitted to PTC within 15 days.

对报告书若有异议，应于收到报告之日起 15 天内向本公司提出。

\*\*\*End of report\*\*\*