

UN38.3 检测报告

UN38.3 TEST REPORT

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| 委托单位名称 Client Name | 厦门新能安科技有限公司 Xiamen Ampace Technology Limited |
| 产品名称 Name of product | 可充电锂离子电池 Rechargeable Lithium Ion Polymer Battery |
| 制造厂商 Manufacturer | 厦门新能安科技有限公司 Xiamen Ampace Technology Limited |
| 商标型号 Trade mark & model | SBR47V1 |
| 检测类别 Test sort | 委托测试 Safety Entrust Test |



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

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Address: Electronic Testing Building No.43 Shahe Road, Xili Road, Nanshan District, ShenZhen, Guangdong, China
电话/TEL: 86-755-86913552 传真/FAX: 86-755-26627238
网址/Internet: <http://www.ccic-set.com> 电子信箱/E-Mail: luther.lu@ccic-set.com

中检集团南方测试股份有限公司

CCIC Southern Testing CO., Ltd.

检测报告

TEST REPORT

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|---|--|---|----------------------------------|--|-----------------------------------|
| 样品名称 Name of sample | 可充电锂离子电池 Rechargeable Lithium Ion Polymer Battery | | 商标 Trade mark | -- | |
| 制造厂商 Manufacturer | 制造厂商: 厦门新能安科技有限 公司 Xiamen Ampace Technology Limited 生产厂商: 厦门新能达科技有限 公司 Xiamen Ampack Technology Limited | | 型号规格 Model/Type | SBR47V1 (内部电池型号: 6560E0) | |
| 委托单位 Client | 厦门新能安科技有限 公司 Xiamen Ampace Technology Limited | | 取样方式 Sampling method | Sent by client | |
| 送检日期 Application date | 2023/12/26 | | 检测日期 Text Date | 2023/12/27-2023/12/29 | |
| 样品数量 Quantity of samples | 16 个电池组, 30 个电池 16 Batteries, 30 Cells | | 检验环境 Environment condition | 20~25℃ 45~75%RH | |
| 标称电压 Nominal voltage (cell/Power) | 3.72V/18.6V | 充电限制电压 Limited Charge Voltage (cell/ Power DC input) | 4.25V/21.25V | 额定能量/容量 Rated Energy /Capacity (cell/Power) | 32.07Wh/8.62Ah 159.22Wh/8.56Ah |
| 标准充电电流 Standard charge Current (cell/ Power DC input) | 1.724A/1.712A | 最大充电电流 Max. Charge Current (cell/ Power DC input) | 12.93A/12.84A | 充电截止电流 End Charge Current (cell) | 172.4mA/171.2mA |
| 放电截止电压 Cut-off Voltage (cell) | 2.8V/14V | 最大放电电流 Max Discharge Current (cell/Power USB-A) | 44.09A/42.8A | 电池数量 Component cells Number | 5PCS (5S1P) |
| 检验项目(Test item): Test1: 高度模拟 Altitude simulation Test2: 温度试验 Thermal Test Test3: 振动 Vibration Test4: 冲击 Shock Test5: 外部短路 External short circuit Test6: 撞击/挤压 Impact/Crush Test7: 过充电 Overcharge Test8: 强制放电 Forced discharge | | | | | |
| 检测依据(Reference documents): 联合国《关于危险货物运输的建议书-试验和标准手册》(第7版) 38.3 节 UN Recommendations on the Transport of Dangerous Goods Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7/Subsection 38.3 | | | | | |

检验概况(Summary):

对电池或电池组进行了 T1 至 T8 项试验, 试验 T1 至 T5 按顺序进行, 使用相同电池或电池组, 试验 T6 和 T8 使用未另外试验过的电池或电池组。

Each Cell/battery type is subjected to tests 1 to 8, Tests 1 to 5 are conducted in sequence on the same Cells/batteries, Tests 6 and 8 are conducted using not otherwise tested Cells/Batteries.

$$\text{质量损失 Mass loss\%} = (M_1 - M_2) / M_1 \times 100$$

式中: M1 是实验前的质量, M2 是试验后的质量, 如果质量损失不超过表 3.8.3.1 所列的数值, 视为“无质量损失”。

Where M₁ is the mass before the test and M₂ is the mass after the test. When mass loss does not exceed the values in Table 38.3.2.2, it shall be considered as "no mass loss".

| Mass M of cell or battery | Mass loss limit |
|---------------------------|-----------------|
| M < 1g | 0.5% |
| 1g ≤ M ≤ 75g | 0.2% |
| M > 75g | 0.1% |

试验 T1 至 T4 如果电池组无渗漏、无排气、无解体、无破裂和无起火, 并且每个试验电池组在试验后的开路电压不小于其在进行这一试验前电压的 90% 则认为符合要求。

In test 1 to 4 batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test battery after testing is not less than 90% of its voltage immediately prior to this procedure.

备注 (Remark):

样品共 1 个电池组, 样品编号: 20231206B18182X-B1, 用于核对和拍照使用。

检验结论(Test conclusion):

本次为派生申请, 派生样品与原样品仅标签不同, 详细测试数据见原报告 SET-20231006B13329X。

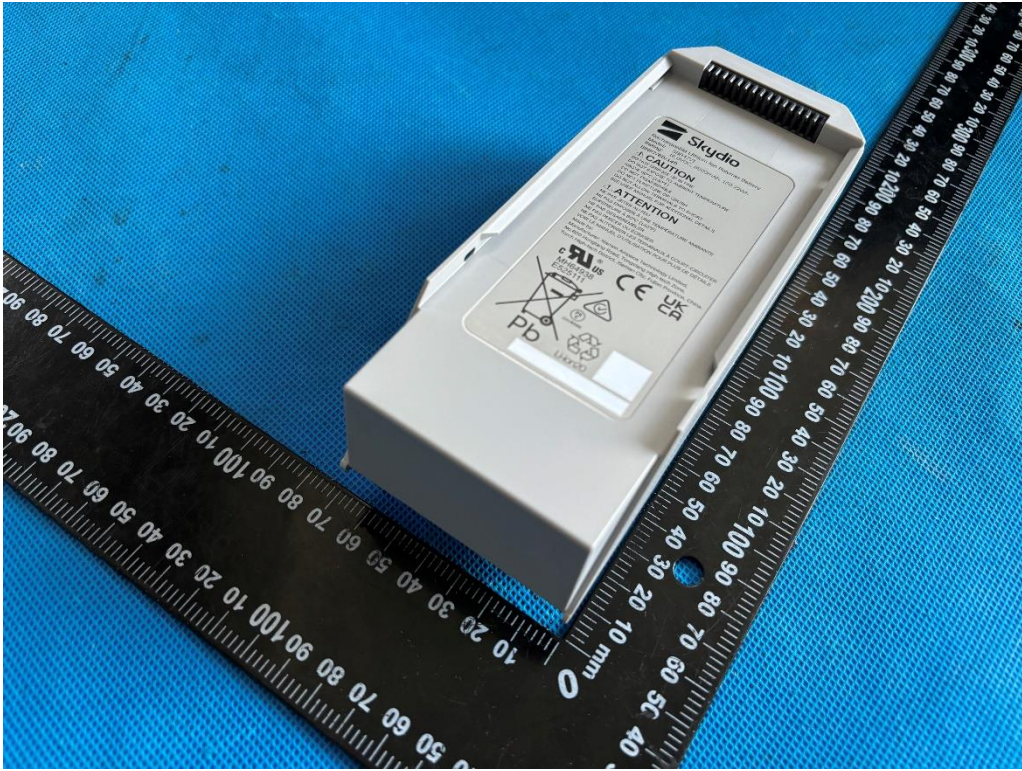
This is a derivative application, Label of the derived sample are different from those of the original sample, For the detailed test data, see the original report SET-20231006B13329X.

(检测单位盖章 stamp)

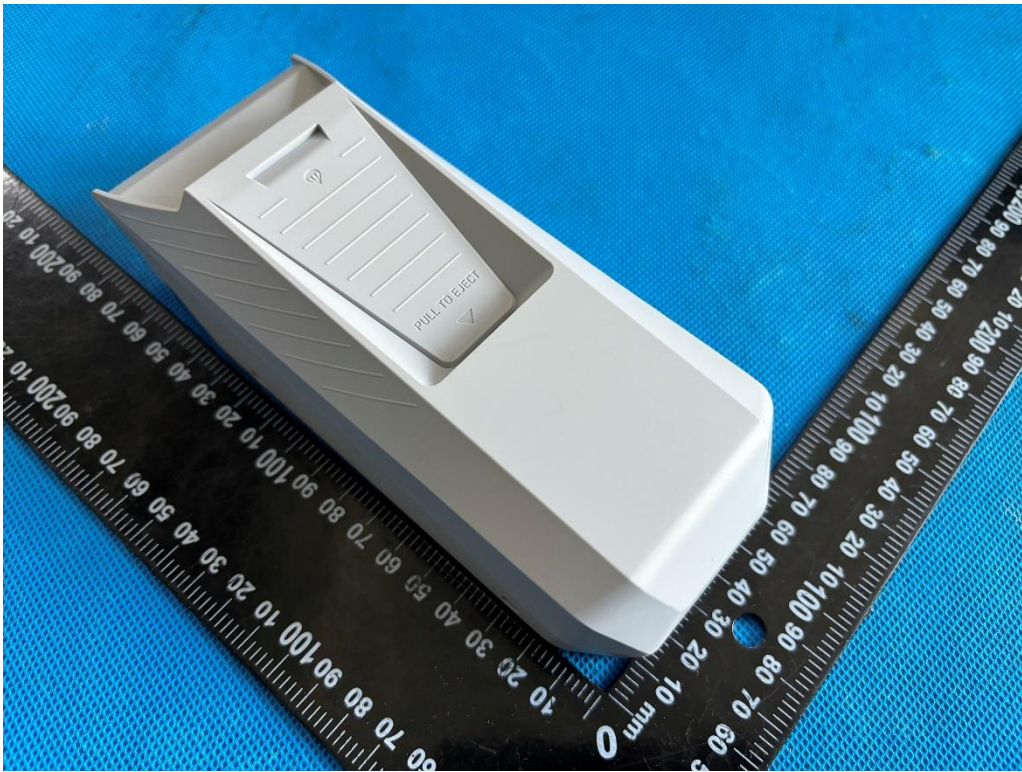
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|--------------------|---|------------|------------------|
| 检测: Tested by |  | 日期 Date | 2023 年 12 月 29 日 |
| 审核: Reviewed by |  | 日期 Date | 2023 年 12 月 29 日 |
| 批准: Approved by |  | 日期 Date | 2023 年 12 月 29 日 |



样品照片 Photo document



图片 Photo 1

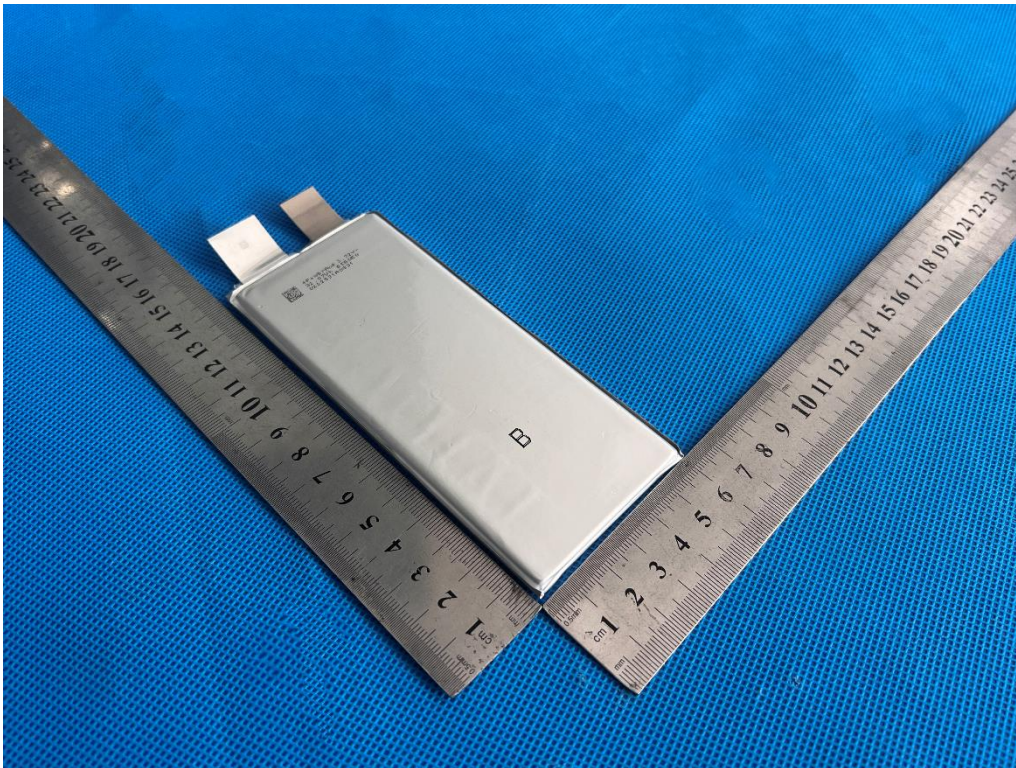


图片 Photo 2

样品照片 Photo document



图片 Photo 3



图片 Photo 3



声明

STATEMENT

1. 报告未加盖“检验检测专用章”无效。
The test report is invalid without stamp of laboratory.
2. 报告无检测、批准人员签字无效。
The test report is invalid without signature of person(s) testing and authorizing.
3. 报告涂改无效。
The test report is invalid if erased and corrected.
4. 自送样品的检测结论仅对送检样品有效。
Test results of the report is valid to the test samples if sampling by client.
5. “☆”号项目未通过 CNAS 认可。
“☆” item to be outside the scope of authorized by CNAS.
6. 未加盖资质认定标志的报告，不具有对社会的证明作用。
The report without the “CMA” stamp shall not have a certifying effect on the society.
7. 未经本实验室书面同意，不得部分地复制本报告。
The test report shall not be reproduced except in full, without written approval of the laboratory.
8. 如对本报告有异议，可在收到报告后 15 天内向本单位申诉，逾期不予受理。
If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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