



NO.1123050333

# 检 测 报 告

## Test Report

样品名称： 锂离子可充电电池组 LSV-V201B-WUS 22.2V 2200mAh  
48.84Wh

Name of Sample: Li-ion Rechargeable Battery Pack LSV-V201B-WUS  
22.2V 2200mAh 48.84Wh

委托单位: Arovast Corporation

Consignor: /

上海化工院检测有限公司

Shanghai Institute of Chemical Industry Testing Co., Ltd.



# 声 明

## Statement

1. 检测报告无本实验室公章（或检验检测专用章）无效。

The test report is invalid if it is not affixed the official seal of the laboratory to it.

2. 复制检测报告未重新加盖本实验室公章（或检验检测专用章）无效。

Copies of the test report without the official seal of the laboratory are invalid.

3. 检测报告无编制、审核、批准人签字无效。

The test report is invalid without the signatures of compiler, checker and approver.

4. 检测报告涂改无效。

The test report is invalid if it is blotted out.

5. 未经本实验室书面批准，不得部分复制检测报告。

It is forbidden to copy the test report partially without the written approval of the laboratory.

6. 送样委托检测结果，仅对所送样品有效。

The conclusion of the consignment test is only valid for the provided sample.

7. 本检测报告以中文为准，英文文本（如有）仅为译文，两者发生冲突时，应以中文文本为准。

The test report has been drafted in Chinese and translated into English (if exist) for convenience only. In the event of discrepancy, the Chinese version shall prevail.

8. 除另有说明，检测检验类别都是指委托分析。

Unless noted otherwise, the test type is consignment test.

地址：上海市云岭东路 345 号

Address: No.345 East Yunling Road, Shanghai

邮政编码(Post Code): 200062

电话(Tel): (021) 31765555

传真(Fax): (021) 31015117

网址 (web site): [www.ghs.cn](http://www.ghs.cn)

电子信箱 (E-mail): [center@ghs.cn](mailto:center@ghs.cn)

上海化工院检测有限公司  
检测报告

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|                             |                                                                                                                                                                                                                   |                                                                       |                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------|
| 样品名称<br>Name of Sample      | 中文<br>Chinese                                                                                                                                                                                                     | 锂离子可充电电池组 LSV-V201B-WUS 22. 2V 2200mAh 48.84Wh                        |                         |
|                             | 英文<br>English                                                                                                                                                                                                     | Li-ion Rechargeable Battery Pack LSV-V201B-WUS 22. 2V 2200mAh 48.84Wh |                         |
| 样品编号<br>Sample No.          | 1123050333                                                                                                                                                                                                        |                                                                       |                         |
| 委托单位<br>Consignor           | Arovast Corporation<br>/                                                                                                                                                                                          |                                                                       |                         |
| 生产单位<br>Manufacturer        | 苏州力神能源科技有限公司<br>Suzhou Lishen Energy Science & Technology Co., Ltd.                                                                                                                                               |                                                                       |                         |
| 检测方法<br>Test method         | 联合国《试验和标准手册》<br>ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3 UN Manual of Tests and Criteria<br>ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3                                                                              |                                                                       |                         |
| 判定标准<br>Criterion           | 联合国《试验和标准手册》<br>ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3 UN Manual of Tests and Criteria<br>ST/SG/AC. 10/11/Rev. 7&Amend. 1 Section 38.3                                                                              |                                                                       |                         |
| 样品外观<br>Appearance          | 白色 塑胶外壳<br>White Plastics cement shell                                                                                                                                                                            |                                                                       |                         |
| 样品接受日期<br>Accepted Date     | 2023-05-16                                                                                                                                                                                                        | 检测起迄日期<br>Test Date                                                   | 2023-05-24 ~ 2023-06-13 |
| 检测项目<br>Test Items          | 高度模拟;热测试;振动;冲击;外短路;撞击;过充电;强制放电<br>Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Impact, Overcharge, Forced discharge                                                               |                                                                       |                         |
| 检测结论<br>Conclusion          | 经检测, 该样品符合联合国《试验和标准手册》ST/SG/AC. 10/11/Rev. 7&Amend. 1 38.3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. 7&Amend. 1 Section 38.3<br>生效日期(Date): 2023-06-14 |                                                                       |                         |
| 备注<br>Comment               | 可充电锂电池组Rechargeable Lithium Battery./                                                                                                                                                                             |                                                                       |                         |
| 委托单位地址<br>Consignor Address | /                                                                                                                                                                                                                 |                                                                       | 邮政编码<br>Post Code<br>/  |

批准  
Approver:  
职务  
Title:

许金

审核  
Checker:

陈建峰

编制  
Compiler:

傅强

电化学测试部部长(Head of Electrochemical Testing Department)



# 上海化工院检测有限公司

## 检 测 报 告

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| 序号<br>No.                              | 检测项目名称<br>Name of Test Items  | 标准要求或标准条款号<br>Standard requirement or The Clause Number of Standard                                                                       | 检测结果<br>Test Result     | 本项结论<br>Conclusion | 备注<br>Remark    |
|----------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------|-----------------|
| 1                                      | 高度模拟<br>Altitude simulation   | 联合国《试验和标准手册》ST/SG/AC.10/11/Rev.7&Amend.1 38.3 试验T.1<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7&Amend.1 Section 38.3 Test T.1 | 见附表 1<br>See Appendix 1 | 合格<br>Passed       | /               |
| 2                                      | 热测试<br>Thermal test           | 联合国《试验和标准手册》ST/SG/AC.10/11/Rev.7&Amend.1 38.3 试验T.2<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7&Amend.1 Section 38.3 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》ST/SG/AC.10/11/Rev.7&Amend.1 38.3 试验T.3<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7&Amend.1 Section 38.3 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》ST/SG/AC.10/11/Rev.7&Amend.1 38.3 试验T.4<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7&Amend.1 Section 38.3 Test T.4 | 见附表 4<br>See Appendix 4 | 合格<br>Passed       | /               |
| 5                                      | 外短路<br>External short circuit | 联合国《试验和标准手册》ST/SG/AC.10/11/Rev.7&Amend.1 38.3 试验T.5<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7&Amend.1 Section 38.3 Test T.5 | 见附表 5<br>See Appendix 5 | 合格<br>Passed       | /               |
| 6                                      | 撞击<br>Impact                  | 联合国《试验和标准手册》ST/SG/AC.10/11/Rev.7&Amend.1 38.3 试验T.6<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7&Amend.1 Section 38.3 Test T.6 | 见附表 6<br>See Appendix 6 | 合格<br>Passed       | /               |
| 7                                      | 过充电<br>Overcharge             | 联合国《试验和标准手册》ST/SG/AC.10/11/Rev.7&Amend.1 38.3 试验T.7<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7&Amend.1 Section 38.3 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》ST/SG/AC.10/11/Rev.7&Amend.1 38.3 试验T.8<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7&Amend.1 Section 38.3 Test T.8 | 见附表 8<br>See Appendix 8 | 合格<br>Passed       | /               |
| 检测环境条件<br>Test Environment Condition   |                               | 环境温度:23℃-25℃;环境湿度:/%<br>Ambient temperature:23℃-25℃;Ambient humidity:/%                                                                   |                         |                    |                 |
| 分包检验情况<br>Subcontracted Test Condition |                               | 检测项目<br>Test Item                                                                                                                         | /                       |                    |                 |
|                                        |                               | 分包实验室<br>Subcontracted Laboratory                                                                                                         | 名称<br>Name              | /                  | 邮编<br>Post Code |
|                                        |                               |                                                                                                                                           | 地址<br>Address           | /                  | 电话<br>Tel       |

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### 检测报告-附表2

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### 检测报告-附表4

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| 序号<br>No.          | 4                                   | 检测项目名称<br>Name of Test Items |                   | 冲击<br>Shock      |                   |                         |                            |                     |
|--------------------|-------------------------------------|------------------------------|-------------------|------------------|-------------------|-------------------------|----------------------------|---------------------|
| 样品编号<br>Sample No. | 样品状态<br>Sample Status               | 试验前 Before                   |                   | 试验后 After        |                   | 质量损失<br>Mass Loss<br>/% | 剩余电压<br>Residual OCV<br>/% | 其他现象<br>Other Event |
|                    |                                     | 质量<br>Mass<br>/g             | 开路电压<br>OCV<br>/V | 质量<br>Mass<br>/g | 开路电压<br>OCV<br>/V |                         |                            |                     |
| 001                | 1CYC完全充电<br>1CYC Fully charged      | 424.97                       | 24.46             | 424.93           | 24.45             | 0.01                    | 99.96                      | O                   |
| 002                | 1CYC完全充电<br>1CYC Fully charged      | 419.20                       | 24.53             | 419.16           | 24.53             | 0.01                    | 100.00                     | O                   |
| 003                | 1CYC完全充电<br>1CYC Fully charged      | 423.79                       | 24.49             | 423.75           | 24.49             | 0.01                    | 100.00                     | O                   |
| 004                | 1CYC完全充电<br>1CYC Fully charged      | 425.17                       | 24.49             | 425.13           | 24.48             | 0.01                    | 99.96                      | O                   |
| 005                | 25CYC完全充电<br>25CYC Fully charged    | 420.03                       | 24.52             | 420.01           | 24.52             | 0.00                    | 100.00                     | O                   |
| 006                | 25CYC完全充电<br>25CYC Fully charged    | 419.77                       | 24.46             | 419.75           | 24.46             | 0.00                    | 100.00                     | O                   |
| 007                | 25CYC完全充电<br>25CYC Fully charged    | 419.45                       | 24.52             | 419.41           | 24.51             | 0.01                    | 99.96                      | O                   |
| 008                | 25CYC完全充电<br>25CYC Fully charged    | 424.59                       | 24.47             | 424.55           | 24.47             | 0.01                    | 100.00                     | O                   |
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备注：L-泄漏 V-漏气 D-解体 R-破裂 F-起火 O-无泄漏、无漏气、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.



| 序号<br>No.          | 6                                   | 检测项目名称<br>Name of Test Items             | 撞击<br>Impact        |
|--------------------|-------------------------------------|------------------------------------------|---------------------|
| 样品编号<br>Sample No. | 样品状态<br>Sample Status               | 样品表面最高温度<br>Max. External Temperature /℃ | 其他现象<br>Other Event |
| 009                | 1CYC 50%容量<br>1CYC 50% Capacity     | 111.7                                    | O                   |
| 010                | 1CYC 50%容量<br>1CYC 50% Capacity     | 40.0                                     | O                   |
| 011                | 1CYC 50%容量<br>1CYC 50% Capacity     | 27.5                                     | O                   |
| 012                | 1CYC 50%容量<br>1CYC 50% Capacity     | 29.4                                     | O                   |
| 013                | 1CYC 50%容量<br>1CYC 50% Capacity     | 57.5                                     | O                   |
| 014                | 25CYC 50%容量<br>25CYC 50% Capacity   | 123.0                                    | O                   |
| 015                | 25CYC 50%容量<br>25CYC 50% Capacity   | 62.0                                     | O                   |
| 016                | 25CYC 50%容量<br>25CYC 50% Capacity   | 34.3                                     | O                   |
| 017                | 25CYC 50%容量<br>25CYC 50% Capacity   | 105.6                                    | O                   |
| 018                | 25CYC 50%容量<br>25CYC 50% Capacity   | 66.5                                     | O                   |
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备注：D-解体 F-起火 O-无解体、无起火。  
 Note: D-Disassembly F-Fire O-No Disassembly & No Fire.

# 上海化工院检测有限公司

## 检测报告-附表7

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|                    |                                     |                              |                   |
|--------------------|-------------------------------------|------------------------------|-------------------|
| 序号<br>No.          | 7                                   | 检测项目名称<br>Name of Test Items | 过充电<br>Overcharge |
| 样品编号<br>Sample No. | 样品状态<br>Sample Status               | 其他现象<br>Other Event          |                   |
| 019                | 1CYC完全充电<br>1CYC Fully charged      | O                            |                   |
| 020                | 1CYC完全充电<br>1CYC Fully charged      | O                            |                   |
| 021                | 1CYC完全充电<br>1CYC Fully charged      | O                            |                   |
| 022                | 1CYC完全充电<br>1CYC Fully charged      | O                            |                   |
| 023                | 25CYC完全充电<br>25CYC Fully charged    | O                            |                   |
| 024                | 25CYC完全充电<br>25CYC Fully charged    | O                            |                   |
| 025                | 25CYC完全充电<br>25CYC Fully charged    | O                            |                   |
| 026                | 25CYC完全充电<br>25CYC Fully charged    | O                            |                   |
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# 上海化工院检测有限公司

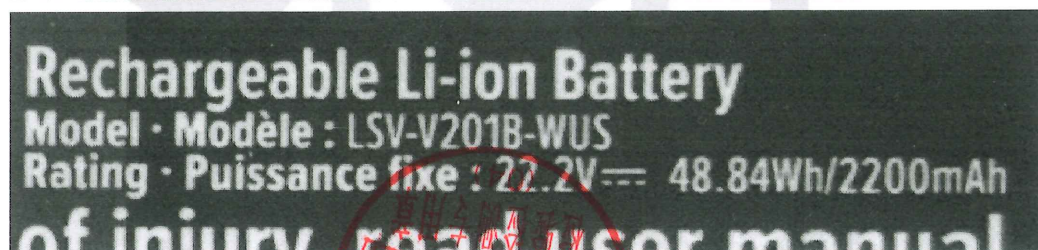
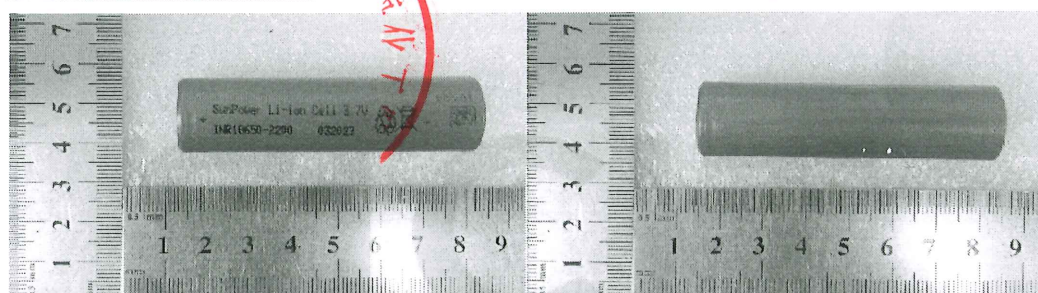
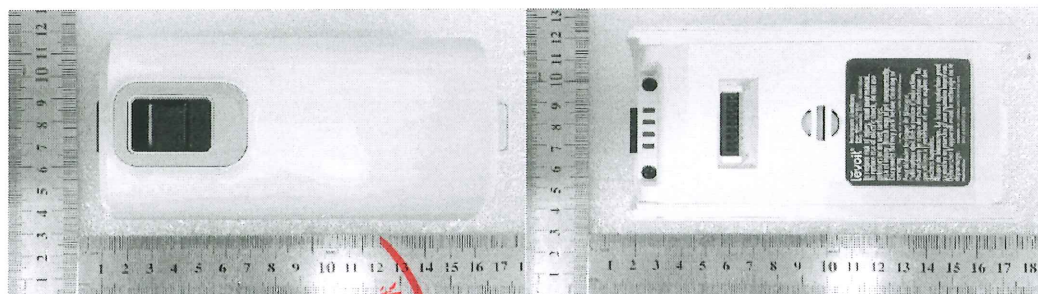
## 检测报告 - 附表8

Shanghai Institute of Chemical Industry  
Testing Co., Ltd. Test Report — Appendix 8

NO. 1123050333

10/11

| 序号<br>No.                                                                         | 8                                   | 检测项目名称<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               | 其他现象<br>Other Event          |                          |
| 027                                                                               | 1CYC完全放电<br>1CYC Fully discharged   | O                            |                          |
| 028                                                                               | 1CYC完全放电<br>1CYC Fully discharged   | O                            |                          |
| 029                                                                               | 1CYC完全放电<br>1CYC Fully discharged   | O                            |                          |
| 030                                                                               | 1CYC完全放电<br>1CYC Fully discharged   | O                            |                          |
| 031                                                                               | 1CYC完全放电<br>1CYC Fully discharged   | O                            |                          |
| 032                                                                               | 1CYC完全放电<br>1CYC Fully discharged   | O                            |                          |
| 033                                                                               | 1CYC完全放电<br>1CYC Fully discharged   | O                            |                          |
| 034                                                                               | 1CYC完全放电<br>1CYC Fully discharged   | O                            |                          |
| 035                                                                               | 1CYC完全放电<br>1CYC Fully discharged   | O                            |                          |
| 036                                                                               | 1CYC完全放电<br>1CYC Fully discharged   | O                            |                          |
| 037                                                                               | 25CYC完全放电<br>25CYC Fully discharged | O                            |                          |
| 038                                                                               | 25CYC完全放电<br>25CYC Fully discharged | O                            |                          |
| 039                                                                               | 25CYC完全放电<br>25CYC Fully discharged | O                            |                          |
| 040                                                                               | 25CYC完全放电<br>25CYC Fully discharged | O                            |                          |
| 041                                                                               | 25CYC完全放电<br>25CYC Fully discharged | O                            |                          |
| 042                                                                               | 25CYC完全放电<br>25CYC Fully discharged | O                            |                          |
| 043                                                                               | 25CYC完全放电<br>25CYC Fully discharged | O                            |                          |
| 044                                                                               | 25CYC完全放电<br>25CYC Fully discharged | O                            |                          |
| 045                                                                               | 25CYC完全放电<br>25CYC Fully discharged | O                            |                          |
| 046                                                                               | 25CYC完全放电<br>25CYC Fully discharged | O                            |                          |
| 备注：D-解体 F-起火 O-无解体、无起火。<br>Note: D-Disassembly F-Fire O-No Disassembly & No Fire. |                                     |                              |                          |



\*\*\*报告结束\*\*\*