



中国认可  
检测  
TESTING  
CNAS L0748



230014349552



NO.1124040687

# 检 测 报 告

## Test Report

样品名称： 锂离子电池 18650 2200mAh 3.7V 8.14Wh

Name of Sample: Li-ion Battery 18650 2200mAh 3.7V 8.14Wh

委托单位： 梅州市博富能科技有限公司

Consignor: MEI ZHOU BO FU NENG TECHNOLOGY CO., LTD

上海化工院检测有限公司

Shanghai Institute of Chemical Industry Testing Co., Ltd.



上海化工院检测有限公司  
检测报告

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

NO. 1124040687

1/11

|                                |                                                                                                                                                                                            |                                          |                         |   |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------|---|
| 样品名称<br>Name of Sample         | 中文<br>Chinese                                                                                                                                                                              | 锂离子电池 18650 2200mAh 3.7V 8.14Wh          |                         |   |
|                                | 英文<br>English                                                                                                                                                                              | Li-ion Battery 18650 2200mAh 3.7V 8.14Wh |                         |   |
| 样品编号<br>Sample No.             | 1124040687                                                                                                                                                                                 |                                          |                         |   |
| 委托单位<br>Consignor              | 梅州市博富能科技有限公司<br>MEI ZHOU BO FU NENG TECHNOLOGY CO., LTD                                                                                                                                    |                                          |                         |   |
| 生产单位<br>Manufacturer           | 梅州市博富能科技有限公司<br>MEI ZHOU BO FU NENG 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.8 38.3 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8<br>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.8 38.3 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8<br>Section 38.3                                                                             |                                          |                         |   |
| 样品外观<br>Appearance             | 蓝色 塑料薄膜外壳<br>Blue Plastic film shell                                                                                                                                                       |                                          |                         |   |
| 样品接受日期<br>Accepted Date        | 2024-04-24                                                                                                                                                                                 | 检测起始日期<br>Test Date                      | 2024-05-07 ~ 2024-06-04 |   |
| 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<br>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.8 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.8 Section 38.3<br>生效日期(Date): 2024-06-05 |                                          |                         |   |
| 备注<br>Comment                  | 可充电单电芯电池Rechargeable Single Cell Battery. /                                                                                                                                                |                                          |                         |   |
| 委托单位地址<br>Consignor<br>Address | /                                                                                                                                                                                          |                                          | 邮政编码<br>Post Code       | / |

批准  
Approver:  
职务  
Title:

许勉

审核  
Checker:

丁小

编制  
Compiler:

傅佳

新能源安全部部长(Head of New Energy Safety Department)



# 上海化工院检测有限公司

## 检 测 报 告

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

NO. 1124040687

2/11

| 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.8 38.3 试验T.1<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8 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.8 38.3 试验T.2<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8 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.8 38.3 试验T.3<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8 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.8 38.3 试验T.4<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8 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.8 38.3 试验T.5<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8 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.8 38.3 试验T.6<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8 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.8 38.3 试验T.7<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8 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.8 38.3 试验T.8<br>UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8 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:21℃-23℃;环境湿度:/%<br>Ambient temperature:21℃-23℃;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 /       |

### 检测报告-附表1

NO. 1124040687

3/11

[illegible]

## 检测报告-附表2

Testing Co., Ltd. Test Report—Appendix 2

4/11

[illegible]

Shanghai Institute of Chemical Industry  
Testing Co., Ltd. Test Report—Appendix 3

5/11

[illegible]

[illegible]

| 序号<br>No.          | 5                                   | 检测项目名称<br>Name of Test Items                | 外短路<br>External short circuit |
|--------------------|-------------------------------------|---------------------------------------------|-------------------------------|
| 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<br>/℃ | 其他现象<br>Other Event           |
| 001                | 1CYC完全充电<br>1CYC Fully charged      | 57.3                                        | O                             |
| 002                | 1CYC完全充电<br>1CYC Fully charged      | 57.0                                        | O                             |
| 003                | 1CYC完全充电<br>1CYC Fully charged      | 56.5                                        | O                             |
| 004                | 1CYC完全充电<br>1CYC Fully charged      | 56.8                                        | O                             |
| 005                | 1CYC完全充电<br>1CYC Fully charged      | 56.1                                        | O                             |
| 006                | 25CYC完全充电<br>25CYC Fully charged    | 57.7                                        | O                             |
| 007                | 25CYC完全充电<br>25CYC Fully charged    | 56.5                                        | O                             |
| 008                | 25CYC完全充电<br>25CYC Fully charged    | 57.4                                        | O                             |
| 009                | 25CYC完全充电<br>25CYC Fully charged    | 57.8                                        | O                             |
| 010                | 25CYC完全充电<br>25CYC Fully charged    | 57.7                                        | O                             |
| 以下空白               | This space intentionally left blank |                                             |                               |
|                    |                                     |                                             |                               |
|                    |                                     |                                             |                               |
|                    |                                     |                                             |                               |
|                    |                                     |                                             |                               |
|                    |                                     |                                             |                               |
|                    |                                     |                                             |                               |
|                    |                                     |                                             |                               |
|                    |                                     |                                             |                               |
|                    |                                     |                                             |                               |
|                    |                                     |                                             |                               |

备注：D-解体 R-破裂 F-起火 O-无解体、无起火、无破裂。

Note: D-Disassembly R-Ruptur F-Fire O-No Disassembly,No Fire & No Rupture.

## 检测报告-附表6

NO. 1124040687

8/11

| 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 |
| 011                | 1CYC 50%容量<br>1CYC 50% Capacity     | 96.5                                     | O                   |
| 012                | 1CYC 50%容量<br>1CYC 50% Capacity     | 104.0                                    | O                   |
| 013                | 1CYC 50%容量<br>1CYC 50% Capacity     | 108.3                                    | O                   |
| 014                | 1CYC 50%容量<br>1CYC 50% Capacity     | 103.4                                    | O                   |
| 015                | 1CYC 50%容量<br>1CYC 50% Capacity     | 120.6                                    | O                   |
| 016                | 25CYC 50%容量<br>25CYC 50% Capacity   | 108.5                                    | O                   |
| 017                | 25CYC 50%容量<br>25CYC 50% Capacity   | 97.6                                     | O                   |
| 018                | 25CYC 50%容量<br>25CYC 50% Capacity   | 101.0                                    | O                   |
| 019                | 25CYC 50%容量<br>25CYC 50% Capacity   | 115.0                                    | O                   |
| 020                | 25CYC 50%容量<br>25CYC 50% Capacity   | 112.9                                    | O                   |
| 以下空白               | This space intentionally left blank |                                          |                     |
|                    |                                     |                                          |                     |
|                    |                                     |                                          |                     |
|                    |                                     |                                          |                     |
|                    |                                     |                                          |                     |
|                    |                                     |                                          |                     |
|                    |                                     |                                          |                     |
|                    |                                     |                                          |                     |
|                    |                                     |                                          |                     |
|                    |                                     |                                          |                     |
|                    |                                     |                                          |                     |
|                    |                                     |                                          |                     |

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.

## 检测报告-附表7

NO. 1124040687

9/11

| 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          |                   |
| 021                | 1CYC完全充电<br>1CYC Fully charged      | O                            |                   |
| 022                | 1CYC完全充电<br>1CYC Fully charged      | O                            |                   |
| 023                | 1CYC完全充电<br>1CYC Fully charged      | O                            |                   |
| 024                | 1CYC完全充电<br>1CYC 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                            |                   |
| 027                | 25CYC完全充电<br>25CYC Fully charged    | O                            |                   |
| 028                | 25CYC完全充电<br>25CYC Fully charged    | O                            |                   |
| 以下空白               | This space intentionally left blank |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |
|                    |                                     |                              |                   |

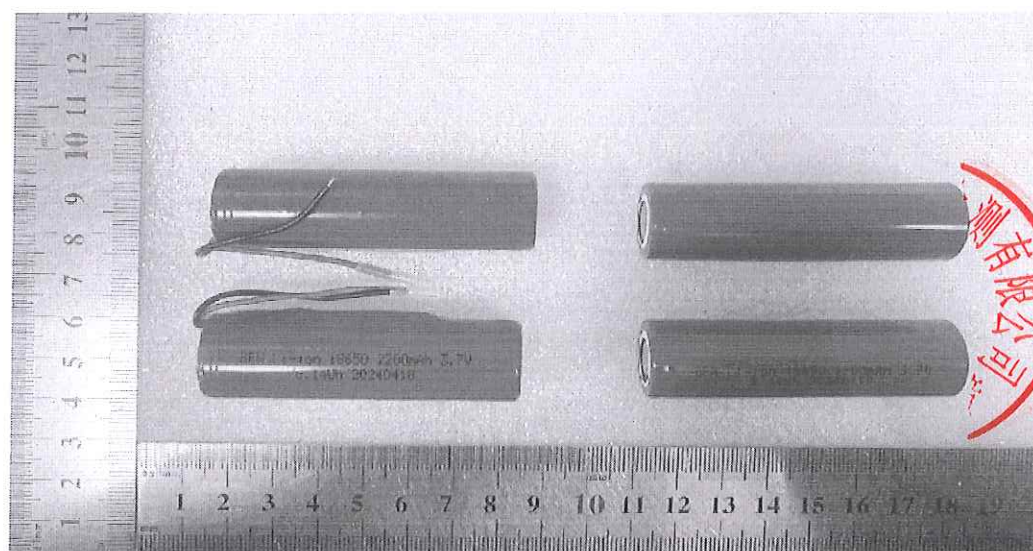
备注：D-解体 F-起火 O-无解体、无起火。  
Note: D-Disassembly F-Fire O-No Disassembly & No Fire.

上海化工院检测有限公司  
检测报告-附表8  
Shanghai Institute of Chemical Industry  
Testing Co., Ltd. Test Report—Appendix 8

NO. 1124040687

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          |                          |
| 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                                                                               | 1CYC完全放电<br>1CYC Fully discharged   | O                            |                          |
| 038                                                                               | 1CYC完全放电<br>1CYC 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                            |                          |
| 047                                                                               | 25CYC完全放电<br>25CYC Fully discharged | O                            |                          |
| 048                                                                               | 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\*\*\*