

# UN38.3 测试报告

## UN38.3 Test Report

报告编号

RHDTL260330112

Report No.

样品名称及型号

暖手宝 OT-112

Sample Name  
&Model

Hand Warmer OT-112

委托单位

深圳瀚鸿鑫科技股份有限公司

Consignor

Shenzhen Hanhongxin Technology Co., Ltd.

东莞市鸿鼎储能检测技术有限公司

Dongguan HDTL Technology Co., Ltd.



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|  |  |                     |   |
|--|--|---------------------|---|
| 委托人<br>Applicant                       | 深圳瀚鸿鑫科技股份有限公司<br>Shenzhen Hanhongxin Technology Co., Ltd.  |                     |   |
| 委托人地址<br>Applicant's address           | 广东省深圳市龙华区龙华街道镇乾大厦 23A16<br>23A16, Zhenqian Building, Longhua Street, Longhua District, Shenzhen, Guangdong, China  |                     |   |
| 制造商<br>Manufacturer                    | 深圳瀚鸿鑫科技股份有限公司<br>Shenzhen Hanhongxin Technology Co., Ltd.  |                     |   |
| 制造商地址<br>Manufacturer's address        | 广东省深圳市龙华区龙华街道镇乾大厦 23A16<br>23A16, Zhenqian Building, Longhua Street, Longhua District, Shenzhen, Guangdong, China  |                     |   |
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| 网址<br>Website                          | /  |                     |   |
| 样品名称<br>Sample Name                    | 暖手宝<br>Hand Warmer   |                     |   |
| 样品型号<br>Sample Model                   | OT-112   |                     |   |
| 样品外观<br>Appearance                     | 黑色近长方体,尺寸:120*35*20mm<br>Approximate Black Cuboid, size:120*35*20mm  |                     |   |
| 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》第八修正版 38.3 章节<br>United Nations Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8/Subsection 38.3  |                     |   |
| 样品接收日期<br>Accepted date                | 2026.03.30   | 测试起讫日期<br>Test date | 2026.03.30 ~ 2026.04.17   |
| 测试项目<br>Test items                     | 高度模拟、温度试验、振动、冲击、外部短路、撞击/挤压、过度充电、强制放电。<br>Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Impact/Crush, Overcharge, Forced discharge.  |                     |   |
| 测试结论<br>Conclusion                     | 检验结论: Test conclusion:<br>由深圳瀚鸿鑫科技股份有限公司送检的暖手宝, 根据联合国《试验和标准手册》第八修正版 38.3 章节进行检测。<br>The Hand Warmer submitted for inspection by Shenzhen Hanhongxin Technology Co., Ltd. are tested according to United Nations Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8/Subsection 38.3.<br>检验结果: 通过 Test result: Pass<br>签发日期(Issue date): 2026.04.17 |                     |   |
| 主检<br>Tested by:                       |   | 审核<br>Checked by:   |   |

| 参数信息<br>Parameter information        |                                 |                                     |                    |
|--------------------------------------|---------------------------------|-------------------------------------|--------------------|
| 暖手宝 Hand Warmer                      |                                 |                                     |                    |
| 型号<br>Model                          | OT-112                          | 电芯个数<br>Cells Number                | 1PCS               |
| 额定值<br>Ratings                       | 3.7V,6000mAh,22.2Wh             | 质量<br>Mass                          | 110.54g            |
| 技术参数<br>Technical specification      | Input:5V---2A<br>Output:5V---2A |                                     |                    |
| 电芯 Cell                              |                                 |                                     |                    |
| 型号<br>Model                          | 21700                           | 单电芯额定值<br>Ratings of single cell    | 6000mAh            |
| 标称电压<br>Nominal Voltage              | 3.7V                            | 电芯形状<br>Appearance                  | 圆柱形<br>cylindrical |
| 标准充电电流<br>Standard Charge Current    | 1.2A                            | 最大充电电流<br>Max Charge Current        | 6A                 |
| 标准放电电流<br>Standard Discharge Current | 1.2A                            | 最大放电电流<br>Max Discharge Current     | 6A                 |
| 充电限制电压<br>Limited Charge Voltage     | 4.2V                            | 放电终止电压<br>Discharge Cut-off Voltage | 3V                 |

| 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》第八修正版 38.3 章节<br>United Nations Manual of Tests and Criteria<br>ST/SG/AC.10/11/Rev.8/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》第八修正版 38.3 章节<br>United Nations Manual of Tests and Criteria<br>ST/SG/AC.10/11/Rev.8/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》第八修正版 38.3 章节<br>United Nations Manual of Tests and Criteria<br>ST/SG/AC.10/11/Rev.8/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》第八修正版 38.3 章节<br>United Nations Manual of Tests and Criteria<br>ST/SG/AC.10/11/Rev.8/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》第八修正版 38.3 章节<br>United Nations Manual of Tests and Criteria<br>ST/SG/AC.10/11/Rev.8/Subsection 38.3<br>试验 T.5 Test T.5 | 见附表 5<br>See Appendix 5 | 合格<br>Passed            | /             |
| 6                                    | 撞击/挤压<br>Impact/Crush          | 联合国《试验和标准手册》第八修正版 38.3 章节<br>United Nations Manual of Tests and Criteria<br>ST/SG/AC.10/11/Rev.8/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》第八修正版 38.3 章节<br>United Nations Manual of Tests and Criteria<br>ST/SG/AC.10/11/Rev.8/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》第八修正版 38.3 章节<br>United Nations Manual of Tests and Criteria<br>ST/SG/AC.10/11/Rev.8/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°C-25°C; 环境湿度: 45%-75%<br>Ambient temperature: 20°C-25°C; Ambient humidity: 45%-75%   |                         |                         |               |

附表 1  
 Appendix 1

| 序号<br>No.  | T.1                              | 测试项目名称<br>Name of Test Items |                   | 高度模拟<br>Altitude simulation |                   |                       |                              |                     |
|--|----------------------------------|------------------------------|-------------------|-----------------------------|-------------------|-----------------------|------------------------------|---------------------|
|  |                                  | 测试前 Before                   |                   | 测试后 After                   |                   | 质量损失<br>Mass loss (%) | 剩余电压<br>Residual voltage (%) | 测试结果<br>Test result |
| 样品<br>编号<br>Sample<br>No   | 样品状态<br>Sample status            | 电池质量<br>$m_1$ (g)            | 开路电压<br>$V_1$ (V) | 电池质量<br>$m_2$ (g)           | 开路电压<br>$V_2$ (V) |                       |                              |                     |
| B1   | 首次完全充电<br>1 CYC Fully Charged    | 109.860                      | 5.14              | 109.860                     | 5.14              | 0.000                 | 100.00                       | O                   |
| B2   | 首次完全充电<br>1 CYC Fully Charged    | 109.610                      | 5.16              | 109.608                     | 5.15              | 0.002                 | 99.81                        | O                   |
| B3   | 首次完全充电<br>1 CYC Fully Charged    | 110.086                      | 5.16              | 110.086                     | 5.16              | 0.000                 | 100.00                       | O                   |
| B4   | 首次完全充电<br>1 CYC Fully Charged    | 109.764                      | 5.13              | 109.764                     | 5.13              | 0.000                 | 100.00                       | O                   |
| B5   | 首次完全充电<br>1 CYC Fully Charged    | 110.022                      | 5.12              | 110.021                     | 5.12              | 0.001                 | 100.00                       | O                   |
| B6   | 25 次完全充电<br>25 CYC Fully Charged | 110.537                      | 5.16              | 110.537                     | 5.15              | 0.000                 | 99.81                        | O                   |
| B7   | 25 次完全充电<br>25 CYC Fully Charged | 109.840                      | 5.14              | 109.840                     | 5.13              | 0.000                 | 99.81                        | O                   |
| B8   | 25 次完全充电<br>25 CYC Fully Charged | 109.969                      | 5.14              | 109.969                     | 5.14              | 0.000                 | 100.00                       | O                   |
| B9   | 25 次完全充电<br>25 CYC Fully Charged | 110.167                      | 5.15              | 110.167                     | 5.15              | 0.000                 | 100.00                       | O                   |
| B10  | 25 次完全充电<br>25 CYC Fully Charged | 110.312                      | 5.15              | 110.311                     | 5.15              | 0.001                 | 100.00                       | O                   |
| 以下空白   |                                  |                              |                   |                             |                   |                       |                              |                     |
|  |                                  |                              |                   |                             |                   |                       |                              |                     |
|  |                                  |                              |                   |                             |                   |                       |                              |                     |
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|  |                                  |                              |                   |                             |                   |                       |                              |                     |
| 注: L-泄露; V-排气; D-解体; R-破裂; F-起火; O-无泄露、无排气、无解体、无破裂、无起火<br>Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire<br>O-No leakage, no venting, no disassembly, no rupture, no fire. |                                  |                              |                   |                             |                   |                       |                              |                     |

附表 2  
 Appendix 2

| 序号<br>No.  | T.2                              | 测试项目名称<br>Name of Test Items |                   |                   |                   | 温度试验<br>Thermal test  |                              |                     |
|--|----------------------------------|------------------------------|-------------------|-------------------|-------------------|-----------------------|------------------------------|---------------------|
| 样品编号<br>Sample No  | 样品状态<br>Sample status            | 测试前 Before                   |                   | 测试后 After         |                   | 质量损失<br>Mass loss (%) | 剩余电压<br>Residual voltage (%) | 测试结果<br>Test result |
|  |                                  | 电池质量<br>$m_1$ (g)            | 开路电压<br>$V_1$ (V) | 电池质量<br>$m_2$ (g) | 开路电压<br>$V_2$ (V) |                       |                              |                     |
| B1   | 首次完全充电<br>1 CYC Fully Charged    | 109.860                      | 5.14              | 109.844           | 5.13              | 0.015                 | 99.81                        | O                   |
| B2   | 首次完全充电<br>1 CYC Fully Charged    | 109.608                      | 5.15              | 109.595           | 5.13              | 0.012                 | 99.61                        | O                   |
| B3   | 首次完全充电<br>1 CYC Fully Charged    | 110.086                      | 5.16              | 110.068           | 5.15              | 0.016                 | 99.81                        | O                   |
| B4   | 首次完全充电<br>1 CYC Fully Charged    | 109.764                      | 5.13              | 109.748           | 5.12              | 0.015                 | 99.81                        | O                   |
| B5   | 首次完全充电<br>1 CYC Fully Charged    | 110.021                      | 5.12              | 110.003           | 5.10              | 0.016                 | 99.61                        | O                   |
| B6   | 25 次完全充电<br>25 CYC Fully Charged | 110.537                      | 5.15              | 110.523           | 5.14              | 0.013                 | 99.81                        | O                   |
| B7   | 25 次完全充电<br>25 CYC Fully Charged | 109.840                      | 5.13              | 109.829           | 5.12              | 0.010                 | 99.81                        | O                   |
| B8   | 25 次完全充电<br>25 CYC Fully Charged | 109.969                      | 5.14              | 109.953           | 5.12              | 0.015                 | 99.61                        | O                   |
| B9   | 25 次完全充电<br>25 CYC Fully Charged | 110.167                      | 5.15              | 110.154           | 5.14              | 0.012                 | 99.81                        | O                   |
| B10  | 25 次完全充电<br>25 CYC Fully Charged | 110.311                      | 5.15              | 110.299           | 5.13              | 0.011                 | 99.61                        | O                   |
| 以下空白   |                                  |                              |                   |                   |                   |                       |                              |                     |
|  |                                  |                              |                   |                   |                   |                       |                              |                     |
|  |                                  |                              |                   |                   |                   |                       |                              |                     |
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|  |                                  |                              |                   |                   |                   |                       |                              |                     |
| 注: L-泄露; V-排气; D-解体; R-破裂; F-起火; O-无泄露、无排气、无解体、无破裂、无起火<br>Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire<br>O-No leakage, no venting, no disassembly, no rupture, no fire. |                                  |                              |                   |                   |                   |                       |                              |                     |

附表 3  
 Appendix 3

| 序号<br>No.  | T.3                              | 测试项目名称<br>Name of Test Items |                   |                   |                   | 振动<br>Vibration       |                              |                     |
|--|----------------------------------|------------------------------|-------------------|-------------------|-------------------|-----------------------|------------------------------|---------------------|
| 样品编号<br>Sample No  | 样品状态<br>Sample status            | 测试前 Before                   |                   | 测试后 After         |                   | 质量损失<br>Mass loss (%) | 剩余电压<br>Residual voltage (%) | 测试结果<br>Test result |
|  |                                  | 电池质量<br>$m_1$ (g)            | 开路电压<br>$V_1$ (V) | 电池质量<br>$m_2$ (g) | 开路电压<br>$V_2$ (V) |                       |                              |                     |
| B1   | 首次完全充电<br>1 CYC Fully Charged    | 109.844                      | 5.13              | 109.843           | 5.13              | 0.001                 | 100.00                       | O                   |
| B2   | 首次完全充电<br>1 CYC Fully Charged    | 109.595                      | 5.13              | 109.595           | 5.13              | 0.000                 | 100.00                       | O                   |
| B3   | 首次完全充电<br>1 CYC Fully Charged    | 110.068                      | 5.15              | 110.068           | 5.15              | 0.000                 | 100.00                       | O                   |
| B4   | 首次完全充电<br>1 CYC Fully Charged    | 109.748                      | 5.12              | 109.748           | 5.11              | 0.000                 | 99.80                        | O                   |
| B5   | 首次完全充电<br>1 CYC Fully Charged    | 110.003                      | 5.10              | 110.003           | 5.10              | 0.000                 | 100.00                       | O                   |
| B6   | 25 次完全充电<br>25 CYC Fully Charged | 110.523                      | 5.14              | 110.520           | 5.14              | 0.003                 | 100.00                       | O                   |
| B7   | 25 次完全充电<br>25 CYC Fully Charged | 109.829                      | 5.12              | 109.826           | 5.11              | 0.003                 | 99.80                        | O                   |
| B8   | 25 次完全充电<br>25 CYC Fully Charged | 109.953                      | 5.12              | 109.950           | 5.11              | 0.003                 | 99.80                        | O                   |
| B9   | 25 次完全充电<br>25 CYC Fully Charged | 110.154                      | 5.14              | 110.154           | 5.14              | 0.000                 | 100.00                       | O                   |
| B10  | 25 次完全充电<br>25 CYC Fully Charged | 110.299                      | 5.13              | 110.299           | 5.12              | 0.000                 | 99.81                        | O                   |
| 以下空白   |                                  |                              |                   |                   |                   |                       |                              |                     |
|  |                                  |                              |                   |                   |                   |                       |                              |                     |
|  |                                  |                              |                   |                   |                   |                       |                              |                     |
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|  |                                  |                              |                   |                   |                   |                       |                              |                     |
|  |                                  |                              |                   |                   |                   |                       |                              |                     |
| 注: L-泄露; V-排气; D-解体; R-破裂; F-起火; O-无泄露、无排气、无解体、无破裂、无起火<br>Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire<br>O-No leakage, no venting, no disassembly, no rupture, no fire. |                                  |                              |                   |                   |                   |                       |                              |                     |



## Appendix 5

| 序号<br>No.  | T.5                              | 测试项目名称<br>Name of Test Items               | 外部短路<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 (°C) | 测试结果<br>Test result            | 备注<br>Remark |
| B1   | 首次完全充电<br>1 CYC Fully Charged    | 58.5                                       | O                              | /            |
| B2   | 首次完全充电<br>1 CYC Fully Charged    | 57.7                                       | O                              | /            |
| B3   | 首次完全充电<br>1 CYC Fully Charged    | 57.9                                       | O                              | /            |
| B4   | 首次完全充电<br>1 CYC Fully Charged    | 57.4                                       | O                              | /            |
| B5   | 首次完全充电<br>1 CYC Fully Charged    | 55.9                                       | O                              | /            |
| B6   | 25 次完全充电<br>25 CYC Fully Charged | 57.5                                       | O                              | /            |
| B7   | 25 次完全充电<br>25 CYC Fully Charged | 59.2                                       | O                              | /            |
| B8   | 25 次完全充电<br>25 CYC Fully Charged | 56.9                                       | O                              | /            |
| B9   | 25 次完全充电<br>25 CYC Fully Charged | 56.0                                       | O                              | /            |
| B10  | 25 次完全充电<br>25 CYC Fully Charged | 54.7                                       | O                              | /            |
| 以下空白   |                                  |  |                                |              |
|  |                                  |  |                                |              |
|  |                                  |  |                                |              |
|  |                                  |  |                                |              |
|  |                                  |  |                                |              |
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|  |                                  |  |                                |              |
|  |                                  |  |                                |              |
|  |                                  |  |                                |              |
| 注: D-解体; R-破裂; F-起火; O-无解体、无破裂、无起火、外表温度不超过 170°C<br>Note: D-Disassembly, R-Rupture, F-Fire, O- No disassembly, no rupture, no fire, external temperature not exceed 170°C. |                                  |  |                                |              |

附表 6  
 Appendix 6

| 序号<br>No.   | T.6                               | 测试项目名称<br>Name of Test Items               | 撞击<br>Impact        | 合格<br>PASS            |
|---|-----------------------------------|--|---------------------|-----------------------|
|   |                                   |  | 挤压<br>Crush         | 不适用<br>Not applicable |
| 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 (°C) | 测试结果<br>Test result | 备注<br>Remark          |
| C1  | 首次 50%容量<br>1 CYC 50% Capacity    | 101.7                                      | O                   | /                     |
| C2  | 首次 50%容量<br>1 CYC 50% Capacity    | 99.2                                       | O                   | /                     |
| C3  | 首次 50%容量<br>1 CYC 50% Capacity    | 98.5                                       | O                   | /                     |
| C4  | 首次 50%容量<br>1 CYC 50% Capacity    | 98.2                                       | O                   | /                     |
| C5  | 首次 50%容量<br>1 CYC 50% Capacity    | 99.4                                       | O                   | /                     |
| C6  | 25 次 50%容量<br>25 CYC 50% Capacity | 100.2                                      | O                   | /                     |
| C7  | 25 次 50%容量<br>25 CYC 50% Capacity | 97.9                                       | O                   | /                     |
| C8  | 25 次 50%容量<br>25 CYC 50% Capacity | 102.9                                      | O                   | /                     |
| C9  | 25 次 50%容量<br>25 CYC 50% Capacity | 101.4                                      | O                   | /                     |
| C10   | 25 次 50%容量<br>25 CYC 50% Capacity | 99.3                                       | O                   | /                     |
| 以下空白  |                                   |  |                     |                       |
|   |                                   |  |                     |                       |
|   |                                   |  |                     |                       |
|   |                                   |  |                     |                       |
|   |                                   |  |                     |                       |
|   |                                   |  |                     |                       |
|   |                                   |  |                     |                       |
|   |                                   |  |                     |                       |
|   |                                   |  |                     |                       |
| 注: D-解体; F-起火; O-无解体、无起火、外表温度不超过 170°C<br>Note: D-Disassembly, F-Fire, O- No disassembly, no fire, external temperature not exceed 170°C. |                                   |  |                     |                       |

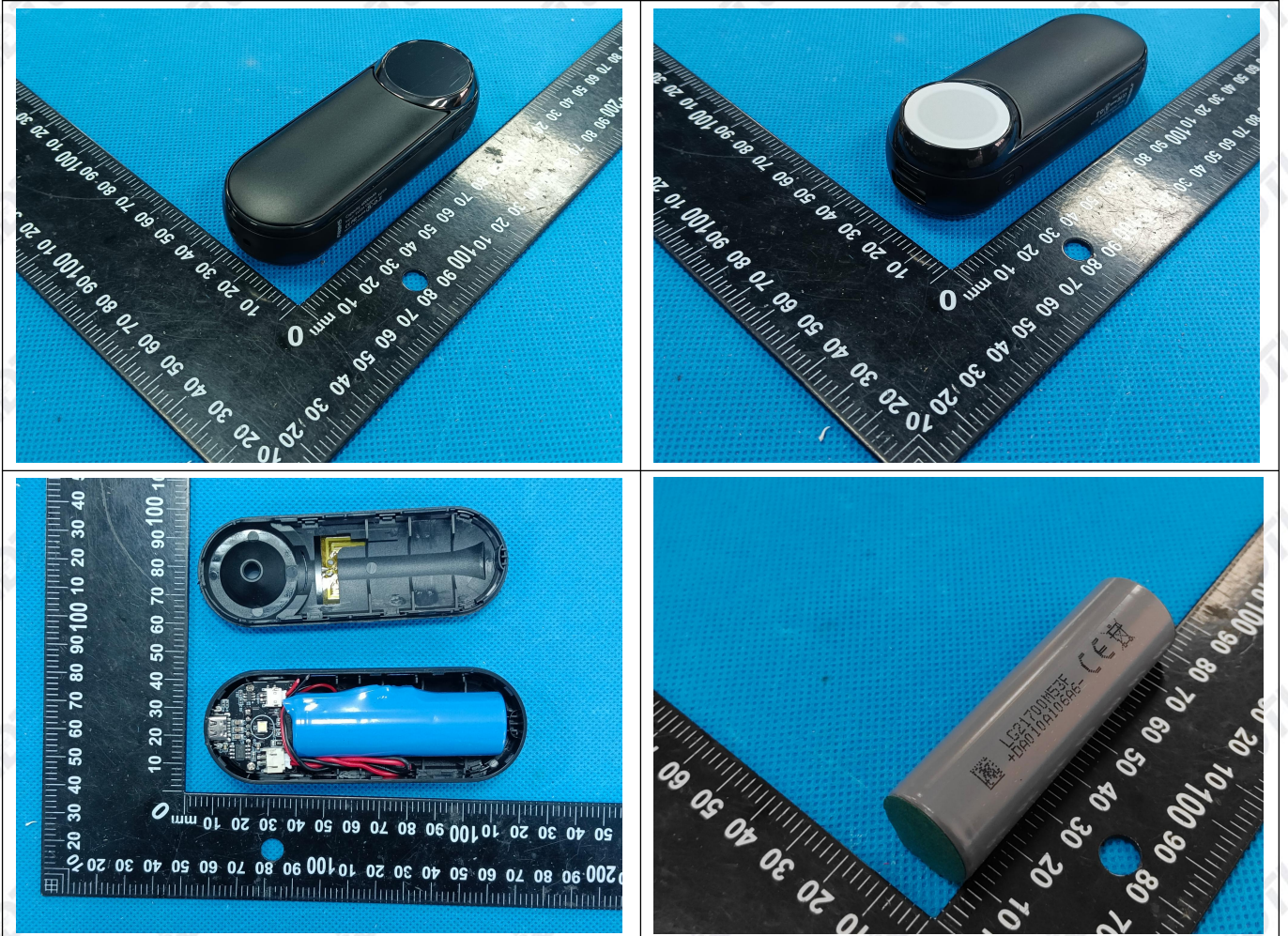


附表 8  
 Appendix 8

| 序号<br>No.         | T.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  
 Note: D-Disassembly, F-Fire, O- No disassembly, no fire.

### 样品图片 Sample Photo



## 注意事项

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

\*\*\*报告结束\*\*\*

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