

# TEST REPORT

Sample name  
&Model

LI-ION POLYMER BATTERY  
LP-PAVMYRN1S1P

Consignor

Shenzhen Harding Energy Co.,Ltd.

Manufacturer

Shenzhen Harding Energy Co.,Ltd.

|                                                                                                                               |                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TEST REPORT</b><br><b>IEC 62281</b><br><b>Safety of primary and secondary lithium cells and batteries during transport</b> |                                                                                                                                           |
| <b>Report Number</b> .....                                                                                                    | CCJC202610410R01                                                                                                                          |
| <b>Date of issue</b> .....                                                                                                    | 2026-03-26                                                                                                                                |
| <b>Total number of pages</b> .....                                                                                            | 20 pages                                                                                                                                  |
| <b>Applicant's name</b> .....                                                                                                 | Shenzhen Harding Energy Co.,Ltd.                                                                                                          |
| <b>Address</b> .....                                                                                                          | Unit 201-202 Building 4 Dongchuang Intelligent Technology Industrial Park Linghai Rd 2 Kuichong Dapeng New District Shenzhen China 518119 |
| <b>Manufacturer's name</b> .....                                                                                              | Shenzhen Harding Energy Co.,Ltd.                                                                                                          |
| <b>Address</b> .....                                                                                                          | Unit 201-202 Building 4 Dongchuang Intelligent Technology Industrial Park Linghai Rd 2 Kuichong Dapeng New District Shenzhen China 518119 |
| <b>Factory's name</b> .....                                                                                                   | Shenzhen Harding Energy Co.,Ltd.                                                                                                          |
| <b>Address</b> .....                                                                                                          | Unit 201-202 Building 4 Dongchuang Intelligent Technology Industrial Park Linghai Rd 2 Kuichong Dapeng New District Shenzhen China 518119 |
| <b>Test specification:</b>                                                                                                    |                                                                                                                                           |
| <b>Standard</b> .....                                                                                                         | IEC 62281:2019, IEC 62281:2019/AMD1:2021, IEC 62281:2019/AMD2:2023                                                                        |
| <b>Test procedure</b> .....                                                                                                   | Test Report                                                                                                                               |
| <b>Non-standard test method</b> .....                                                                                         | N/A                                                                                                                                       |
| <b>Test item description</b> .....                                                                                            | LI-ION POLYMER BATTERY                                                                                                                    |
| <b>Trade Mark</b> .....                                                                                                       | N/A                                                                                                                                       |
| <b>Model/Type reference</b> .....                                                                                             | LP-PAVMYRN1S1P                                                                                                                            |
| <b>Ratings</b> .....                                                                                                          | 3.8V, 4400mAh, 16.72Wh                                                                                                                    |

|                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Testing procedure and testing location:</b>                                                                                                                                                                                                                                         |                                                                                                                                                                |                  |
| Testing Laboratory .....                                                                                                                                                                                                                                                               | Shenzhen CCJC Technology Co.,Ltd.                                                                                                                              |                  |
| Testing location/ address .....                                                                                                                                                                                                                                                        | 1-3/F., Factory Building 101, No.25, Xitou Road, Xitou, Songgang Subdistrict, Bao'an District, Shenzhen, Guangdong, China                                      |                  |
| Tested by (name, function, signature) .....                                                                                                                                                                                                                                            | Cong Chen<br>Project Engineer                                                                                                                                  | <i>Cong chen</i> |
| Approved by (name, function, signature):                                                                                                                                                                                                                                               | Roc Cheng<br>Project Reviewer                                                                                                                                  | <i>Roc cheng</i> |
| <b>List of Attachments:</b>                                                                                                                                                                                                                                                            |                                                                                                                                                                |                  |
| Appendix 1: 1 page of Photo Documentation                                                                                                                                                                                                                                              |                                                                                                                                                                |                  |
| <b>Summary of testing:</b>                                                                                                                                                                                                                                                             |                                                                                                                                                                |                  |
| <b>Tests performed (name of test and test clause):</b>                                                                                                                                                                                                                                 | <b>Testing location:</b>                                                                                                                                       |                  |
| cl. 6.4.1 Test T-1: Altitude<br>cl. 6.4.2 Test T-2: Thermal cycling<br>cl. 6.4.3 Test T-3: Vibration<br>cl. 6.4.4 Test T-4: Shock<br>cl. 6.4.5 Test T-5: External short-circuit<br>cl. 6.4.6 Test T-6: Crush<br>cl. 6.5.1 Test T-7: Overcharge<br>cl. 6.5.2 Test T-8: Forced discharge | Shenzhen CCJC Technology Co.,Ltd.<br>1-3/F., Factory Building 101, No.25, Xitou Road, Xitou, Songgang Subdistrict, Bao'an District, Shenzhen, Guangdong, China |                  |
| <b>Summary of compliance with National Differences</b>                                                                                                                                                                                                                                 |                                                                                                                                                                |                  |
| <input checked="" type="checkbox"/> The product fulfils the requirements of <u>EN 62281:2019/A1:2021/A2:2023</u>                                                                                                                                                                       |                                                                                                                                                                |                  |

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The artwork below may be only a draft.



|                                                                                                                                                                                                                                                                                                                                                                            |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>Test item particulars</b> ..... :                                                                                                                                                                                                                                                                                                                                       |                          |
| <b>Battery type designation</b> ..... :                                                                                                                                                                                                                                                                                                                                    | LI-ION POLYMER BATTERY   |
| <b>Weight of cell or battery</b> ..... :                                                                                                                                                                                                                                                                                                                                   | 62.0g                    |
| <b>Lithium equivalent content</b> ..... :                                                                                                                                                                                                                                                                                                                                  | N/A                      |
| <b>Nominal energy</b> ..... :                                                                                                                                                                                                                                                                                                                                              | 16.72Wh                  |
| <b>Number of series connected cells</b> ..... :                                                                                                                                                                                                                                                                                                                            | 1S1P                     |
| <b>EODV</b> ..... :                                                                                                                                                                                                                                                                                                                                                        | 3.0V                     |
| <b>Manufacturer of the packaging</b> ..... :                                                                                                                                                                                                                                                                                                                               | N/A                      |
| <b>Description of the packaging design type</b> ..... :                                                                                                                                                                                                                                                                                                                    | N/A                      |
| <b>Possible test case verdicts:</b>                                                                                                                                                                                                                                                                                                                                        |                          |
| - test case does not apply to the test object..... : N/A                                                                                                                                                                                                                                                                                                                   |                          |
| - test object does meet the requirement..... : P (Pass)                                                                                                                                                                                                                                                                                                                    |                          |
| - test object does not meet the requirement..... : F (Fail)                                                                                                                                                                                                                                                                                                                |                          |
| <b>Testing</b> ..... :                                                                                                                                                                                                                                                                                                                                                     |                          |
| <b>Date of receipt of test item</b> ..... :                                                                                                                                                                                                                                                                                                                                | 2026-01-04               |
| <b>Date (s) of performance of tests</b> ..... :                                                                                                                                                                                                                                                                                                                            | 2026-01-04 to 2026-02-03 |
| <b>General remarks:</b>                                                                                                                                                                                                                                                                                                                                                    |                          |
| <p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> <p>"(See Enclosure #)" refers to additional information appended to the report.</p> <p>"(See appended table)" refers to a table appended to the report.</p> |                          |

| General product information: |                |                 |                        |                           |                        |                           |                        |                       |
|------------------------------|----------------|-----------------|------------------------|---------------------------|------------------------|---------------------------|------------------------|-----------------------|
| Model (Battery)              | Rated capacity | Nominal voltage | Nominal Charge Current | Nominal Discharge Current | Maximum Charge Current | Maximum Discharge Current | Maximum Charge Voltage | End Discharge Voltage |
| LP-PAVMYRN1S1P               | 4400mAh        | 3.8V            | 880mA                  | 880mA                     | 2000mA                 | 2000mA                    | 4.35V                  | 3.0V                  |
| Model (Cell)                 | Rated capacity | Nominal voltage | Nominal Charge Current | Nominal Discharge Current | Maximum Charge Current | Maximum Discharge Current | Maximum Charge Voltage | End Discharge Voltage |
| 784476                       | 4400mAh        | 3.8V            | 880mA                  | 880mA                     | 4400mA                 | 4400mA                    | 4.35V                  | 3.0V                  |

| IEC 62281 |                                                                                                                                                                                                                                                              |                                                   |         |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------|
| Clause    | Requirement + Test                                                                                                                                                                                                                                           | Result - Remark                                   | Verdict |
| <b>4</b>  | <b>REQUIREMENTS FOR SAFETY</b>                                                                                                                                                                                                                               |                                                   | P       |
| 4.1       | <b>General considerations</b>                                                                                                                                                                                                                                |                                                   | P       |
|           | Abnormal temperature rise above the critical value defined by the manufacturer is prevented by design.                                                                                                                                                       |                                                   | P       |
|           | Temperature increases in the cell or battery are controlled by the design e.g. by limiting the current flow.                                                                                                                                                 |                                                   | P       |
|           | Cells and batteries are designed to relieve excessive internal pressure or to preclude a violent rupture under conditions of transport.                                                                                                                      |                                                   | P       |
|           | Cells and batteries are designed so as to prevent a short-circuit under normal conditions of transport and intended use.                                                                                                                                     |                                                   | P       |
|           | Batteries containing cells or strings of cells connected in parallel are equipped with effective means to prevent dangerous reverse current flow.                                                                                                            |                                                   | P       |
| 4.2       | <b>Quality plan</b>                                                                                                                                                                                                                                          |                                                   | P       |
|           | The manufacturer implements a documented quality plan defining the procedures for the inspection of materials, components, cells and batteries during the course of manufacture, to be applied to the total process of producing a specific type of battery. | Complied.<br>ISO 9001: 2015 certificate provided. | P       |
|           | Manufacturers understand their process capabilities and institute the necessary process controls as they relate to product safety and reliability.                                                                                                           |                                                   | P       |
| 4.3       | <b>Packaging</b>                                                                                                                                                                                                                                             |                                                   | N/A     |
|           | Cells and batteries are packaged so as to prevent an external short-circuit under normal transport conditions.                                                                                                                                               |                                                   | N/A     |
| <b>5</b>  | <b>TYPE TESTING, SAMPLING AND RE-TESTING</b>                                                                                                                                                                                                                 |                                                   | P       |
| 5.1       | <b>Type testing</b>                                                                                                                                                                                                                                          |                                                   | P       |
| 5.2       | <b>Battery assemblies</b>                                                                                                                                                                                                                                    |                                                   | P       |
| 5.2.1     | Secondary batteries for use in battery assemblies                                                                                                                                                                                                            |                                                   | P       |
| 5.2.2     | Small battery assemblies                                                                                                                                                                                                                                     |                                                   | N/A     |
| 5.2.3     | Large battery assemblies                                                                                                                                                                                                                                     |                                                   | N/A     |
| 5.3       | <b>Sampling</b>                                                                                                                                                                                                                                              |                                                   | P       |
|           | Number of primary test cells and batteries for type testing according to Table 1.                                                                                                                                                                            |                                                   | N/A     |
|           | Number of secondary test cells and batteries for type testing according to Table 2.                                                                                                                                                                          |                                                   | P       |
|           | Number of packages with primary or secondary test cells and batteries according to Table 3.                                                                                                                                                                  |                                                   | N/A     |

| IEC 62281 |                                                                                                                                                                                                                                    |                          |         |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------|
| Clause    | Requirement + Test                                                                                                                                                                                                                 | Result - Remark          | Verdict |
| <b>6</b>  | <b>TEST METHODS AND REQUIREMENTS</b>                                                                                                                                                                                               |                          | P       |
| 6.1       | <b>General</b>                                                                                                                                                                                                                     |                          | P       |
| 6.1.2     | Ambient temperature of 20 °C ± 5 °C.                                                                                                                                                                                               |                          | P       |
| 6.1.3     | Parameter measurement tolerances                                                                                                                                                                                                   |                          | P       |
| 6.1.4     | Pre-discharge and pre-cycling                                                                                                                                                                                                      |                          | P       |
| 6.2       | <b>Evaluation of test criteria</b>                                                                                                                                                                                                 |                          | P       |
| 6.4       | <b>Transport tests</b>                                                                                                                                                                                                             |                          | P       |
| 6.4.1     | Test T-1: Altitude                                                                                                                                                                                                                 |                          | P       |
|           | Cells or batteries are stored at a pressure of 11,6 kPa or less for at least 6 h at ambient temperature.                                                                                                                           |                          | P       |
|           | Results: no leakage, no venting, no short-circuit, no rupture, no explosion and no fire during this test.                                                                                                                          | See appended Table 6.4.1 | P       |
| 6.4.2     | Test T-2: Thermal cycling                                                                                                                                                                                                          |                          | P       |
|           | Cells or batteries previously subjected to altitude test.                                                                                                                                                                          |                          | P       |
|           | Cells or batteries are stored for at least 6 h at a test temperature of 72 °C, followed by storage for at least 6 h at a test temperature of -40 °C. Maximum time for transfer is 30 minutes. This procedure is executed 10 times. |                          | P       |
|           | For large cells or batteries the duration of exposure to the test temperatures is at least 12 h instead of 6 h.                                                                                                                    |                          | N/A     |
|           | Storage for at least 24 h at ambient temperature.                                                                                                                                                                                  |                          | P       |
|           | Results: no leakage, no venting, no short-circuit, no rupture, no explosion and no fire during this test.                                                                                                                          | See appended Table 6.4.2 | P       |
| 6.4.3     | Test T-3: Vibration                                                                                                                                                                                                                |                          | P       |
|           | Cells or batteries previously subjected to thermal cycling test                                                                                                                                                                    |                          | P       |
|           | Cells or batteries are subjected to sinusoidal vibration according to Table 6.                                                                                                                                                     |                          | P       |
|           | Cycle is repeated 12 times for a total of 3 h for each of three mutually perpendicular mounting positions. One of the directions is perpendicular to the terminal face.                                                            |                          | P       |
|           | Results: no leakage, no venting, no short-circuit, no rupture, no explosion and no fire during this test.                                                                                                                          | See appended Table 6.4.3 | P       |
| 6.4.4     | Test T-4: Shock                                                                                                                                                                                                                    |                          | P       |
|           | Cells or batteries previously subjected to vibration test.                                                                                                                                                                         |                          | P       |

| IEC 62281 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |         |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------|
| Clause    | Requirement + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Result - Remark          | Verdict |
|           | Each cell or battery is subjected to three shocks in each direction of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks. For each shock, the parameters are according to Table 7.                                                                                                                                                                                                                                                                                                                                                         |                          | P       |
|           | Results: no leakage, no venting, no short-circuit, no rupture, no explosion and no fire during this test.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | See appended Table 6.4.4 | P       |
| 6.4.5     | Test T-5: External short-circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          | P       |
|           | Cells or batteries previously subjected to shock test.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          | P       |
|           | Each cell or battery is stabilized at an external case temperature of $57^{\circ}\text{C} \pm 4^{\circ}\text{C}$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | P       |
|           | Cell or battery is subjected to a short-circuit condition with a total external resistance of less than 0,1 ohm at $57^{\circ}\text{C} \pm 4^{\circ}\text{C}$ . Short-circuit condition is continued for at least 1 h after the cell or battery external case temperature has returned to $57^{\circ}\text{C} \pm 4^{\circ}\text{C}$ .                                                                                                                                                                                                                                                   |                          | P       |
|           | The test sample is observed for a further 6 h.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          | P       |
|           | Results: no excessive temperature rise, no rupture, no explosion and no fire during this test and within the 6 h of observation.                                                                                                                                                                                                                                                                                                                                                                                                                                                         | See appended Table 6.4.5 | P       |
| 6.4.6     | Test T-6: Impact / crush                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          | P       |
|           | The test is conducted using test cells or component cells that have not been previously subjected to other transport tests.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          | N/A     |
|           | Each test cell or component cell shall be subjected to one impact / crush only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          | N/A     |
|           | Cylindrical cells greater than 18 mm in diameter is tested with impact test procedure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          | N/A     |
|           | Test cell or component cell is placed on a flat smooth surface. A stainless steel bar with a diameter of $15,8 \text{ mm} \pm 0,1 \text{ mm}$ and a length of at least 60 mm or of the longest dimension of the cell, whichever is greater, is placed across the centre of the test sample. A mass of $9,1 \text{ kg} \pm 0,1 \text{ kg}$ is dropped from a height of $61 \text{ cm} \pm 2,5 \text{ cm}$ at the intersection of the bar and the test sample using a vertical sliding track or channel. The vertical track is oriented 90 degrees from the horizontal supporting surface. |                          | N/A     |
|           | The test sample is impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the steel bar lying across the centre of the test sample.                                                                                                                                                                                                                                                                                                                                                                                              |                          | N/A     |

| IEC 62281 |                                                                                                                                                                                                                                                                                                                                                                  |                                                         |         |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------|
| Clause    | Requirement + Test                                                                                                                                                                                                                                                                                                                                               | Result - Remark                                         | Verdict |
|           | Prismatic, pouch, coin/button cells and cylindrical cells not more than 18 mm in diameter is tested with crush test procedure.                                                                                                                                                                                                                                   | Prismatic cell                                          | P       |
|           | A cell or component cell is crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1,5 cm/s at the first point of contact.                                                                                                                                                                                               |                                                         | P       |
|           | A prismatic or pouch cell shall be crushed by applying the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces. For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis.                                                                                             |                                                         | P       |
|           | The crushing is to be continued until one of the three conditions below is reached:<br>- the applied force reaches 13 kN $\pm$ 0,78 kN;<br>- the voltage of the cell drops by at least 100 mV;<br>- the cell is deformed by 50 % or more of its original thickness.<br>As soon as one of the above conditions has been obtained, the pressure shall be released. |                                                         | P       |
|           | The test sample is observed for a further 6 h.                                                                                                                                                                                                                                                                                                                   |                                                         | P       |
|           | Results: no excessive temperature rise, no explosion and no fire during this test and within the 6 h of observation.                                                                                                                                                                                                                                             | See appended Table 6.4.6C                               | P       |
| 6.5       | <b>Misuse tests</b>                                                                                                                                                                                                                                                                                                                                              |                                                         | P       |
| 6.5.1     | Test T-7: Overcharge                                                                                                                                                                                                                                                                                                                                             |                                                         | P       |
|           | The charge current of the battery is twice the manufacturer's recommended maximum continuous charge current.                                                                                                                                                                                                                                                     |                                                         | P       |
|           | The manufacturer's recommended charge voltage is not more than 18 V, the minimum voltage of the test is the lesser of two times the maximum charge voltage of the battery or 22 V.                                                                                                                                                                               | The voltage of the test is 8.7V, and the current is 4A. | P       |
|           | The manufacturer's recommended charge voltage is more than 18 V. The voltage of the test is not less than 1,2 times the maximum charge voltage.                                                                                                                                                                                                                  |                                                         | P       |
|           | The test is conducted at ambient temperature. The charging condition is maintained for at least 24 h.                                                                                                                                                                                                                                                            |                                                         | P       |
|           | The test sample is observed for a further 7 days.                                                                                                                                                                                                                                                                                                                |                                                         | P       |
|           | Results: no explosion and no fire during this test and within the 7 days of observation.                                                                                                                                                                                                                                                                         | See appended Table 6.5.1                                | P       |
| 6.5.2     | Test T-8: Forced discharge                                                                                                                                                                                                                                                                                                                                       |                                                         | P       |

| IEC 62281 |                                                                                                                                                                                                                                                                                                                             |                          |         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------|
| Clause    | Requirement + Test                                                                                                                                                                                                                                                                                                          | Result - Remark          | Verdict |
|           | Each cell is forced discharged at ambient temperature by connecting it in series with a 12 V direct current power supply at an initial current equal to the maximum continuous discharge current specified by the manufacturer. Time interval for discharging equals to rated capacity divided by the initial test current. |                          | P       |
|           | The test sample is observed for a further 7 days.                                                                                                                                                                                                                                                                           |                          | P       |
|           | Results: no explosion and no fire during this test, nor within the 7 days of observation.                                                                                                                                                                                                                                   | See appended Table 6.5.2 | P       |
| 6.6       | <b>Packaging test</b>                                                                                                                                                                                                                                                                                                       |                          | N/A     |
| 6.6.1     | Test P-1: Drop test                                                                                                                                                                                                                                                                                                         |                          | N/A     |
|           | A package filled with cells or batteries as offered for transport is dropped from a height of 1,2 m onto a concrete surface in such a manner that any of its corners first touches the ground.                                                                                                                              |                          | N/A     |
|           | The test is conducted using test cells or batteries that have not been previously subjected to a transport test.                                                                                                                                                                                                            |                          | N/A     |
|           | Results: no shifting, no distortion, no leakage, no venting, no short-circuit, no excessive temperature rise, no rupture, no explosion and no fire during this test.                                                                                                                                                        |                          | N/A     |
| 6.7       | <b>Information to be given in the relevant specification</b>                                                                                                                                                                                                                                                                |                          | P       |
|           | Aggregated lithium content; 5.2 / 6.8 I                                                                                                                                                                                                                                                                                     |                          | P       |
|           | Nominal energy; 5.1 / 5.2                                                                                                                                                                                                                                                                                                   |                          | P       |
|           | Pre-discharge current specified by the manufacturer for primary cells and batteries; 6.1.4                                                                                                                                                                                                                                  |                          | P       |
|           | Charge and discharge conditions specified by the manufacturer for optimum performance and safety of secondary (rechargeable) cells and batteries; 6.1.4                                                                                                                                                                     |                          | P       |
|           | Manufacturer's recommended maximum continuous charge current; 6.5.1                                                                                                                                                                                                                                                         |                          | P       |
|           | Manufacturer's recommended charge voltage; 6.5.1                                                                                                                                                                                                                                                                            |                          | P       |
|           | Maximum charge voltage; 6.5.1                                                                                                                                                                                                                                                                                               |                          | P       |
|           | Maximum continuous discharge current specified by the manufacturer; 6.5.2                                                                                                                                                                                                                                                   |                          | P       |
|           | Rated capacity specified by the manufacturer, 6.5.2.                                                                                                                                                                                                                                                                        |                          | P       |
| 9         | <b>MARKING</b>                                                                                                                                                                                                                                                                                                              |                          | P       |
| 9.1       | <b>Marking of primary and secondary cells and batteries</b>                                                                                                                                                                                                                                                                 |                          | P       |

| IEC 62281 |                                                                                                                                 |                                                 |         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------|
| Clause    | Requirement + Test                                                                                                              | Result - Remark                                 | Verdict |
|           | The marking of primary lithium cells and batteries comply with IEC 60086-4.                                                     |                                                 | N/A     |
|           | The marking of secondary lithium cells and batteries comply with IEC 61960.                                                     | Battery marked as specified in IEC 61960-3:2017 | P       |
| 9.2       | <b>Marking of the packaging and shipping documents</b>                                                                          |                                                 | N/A     |
|           | Package marked with the information that it contains lithium cells or batteries.                                                |                                                 | N/A     |
|           | Package marked with the information that it shall be handled with care.                                                         |                                                 | N/A     |
|           | Package marked with the information that it shall, if damaged, be quarantined, inspected and repacked;                          |                                                 | N/A     |
|           | Package marking includes telephone number for information.                                                                      |                                                 | N/A     |
|           | Documents accompanying each shipment include the information that it contains lithium cells or batteries.                       |                                                 | N/A     |
|           | Documents accompanying each shipment include the information that it shall be handled with care.                                |                                                 | N/A     |
|           | Documents accompanying each shipment include the information that it shall, if damaged, be quarantined, inspected and repacked; |                                                 | N/A     |
|           | Documents accompanying each shipment include telephone number for information.                                                  |                                                 | N/A     |

| 6.4.1                                                                                                                                                        |                                | TABLE: Altitude                      |                      |                                     |                     |               |                  | P       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------|----------------------|-------------------------------------|---------------------|---------------|------------------|---------|
| Sample No.                                                                                                                                                   | Precondition                   | Open circuit voltage before test (V) | Mass before test (g) | Open circuit voltage after test (V) | Mass after test (g) | Mass loss (%) | Voltage loss (%) | Results |
| B01                                                                                                                                                          | At first cycle, fully charged  | 4.33                                 | 61.567               | 4.32                                | 61.565              | 0.003         | 0.23             | P       |
| B02                                                                                                                                                          |                                | 4.33                                 | 61.468               | 4.32                                | 61.466              | 0.003         | 0.23             | P       |
| B03                                                                                                                                                          |                                | 4.33                                 | 61.816               | 4.32                                | 61.815              | 0.002         | 0.23             | P       |
| B04                                                                                                                                                          |                                | 4.33                                 | 61.784               | 4.32                                | 61.782              | 0.003         | 0.23             | P       |
| B05                                                                                                                                                          |                                | 4.33                                 | 61.916               | 4.32                                | 61.915              | 0.002         | 0.23             | P       |
| B06                                                                                                                                                          | After 25 cycles, fully charged | 4.33                                 | 61.828               | 4.32                                | 61.826              | 0.003         | 0.23             | P       |
| B07                                                                                                                                                          |                                | 4.33                                 | 61.693               | 4.32                                | 61.692              | 0.002         | 0.23             | P       |
| B08                                                                                                                                                          |                                | 4.33                                 | 61.746               | 4.32                                | 61.745              | 0.002         | 0.23             | P       |
| B09                                                                                                                                                          |                                | 4.33                                 | 61.952               | 4.32                                | 61.950              | 0.003         | 0.23             | P       |
| B10                                                                                                                                                          |                                | 4.33                                 | 61.886               | 4.32                                | 61.885              | 0.002         | 0.23             | P       |
| Supplementary information:<br>- No leakage<br>- No venting,<br>- No short-circuit<br>- No rupture<br>- No explosion<br>- No fire<br>- Other (please explain) |                                |                                      |                      |                                     |                     |               |                  |         |

|      |        |      |        |        |
|------|--------|------|--------|--------|
| 4.32 | 61.950 | 4.26 | 61.932 | 61.932 |
| 4.32 | 61.885 | 4.26 | 61.868 | 61.868 |

| 6.4.3                                                                                                                                                        |                                | TABLE: Vibration                     |                      |                                     |                     |               |                  | P       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------|----------------------|-------------------------------------|---------------------|---------------|------------------|---------|
| Sample No.                                                                                                                                                   | Precondition                   | Open circuit voltage before test (V) | Mass before test (g) | Open circuit voltage after test (V) | Mass after test (g) | Mass loss (%) | Voltage loss (%) | Results |
| B01                                                                                                                                                          | At first cycle, fully charged  | 4.26                                 | 61.548               | 4.26                                | 61.548              | 0.000         | 0.00             | P       |
| B02                                                                                                                                                          |                                | 4.26                                 | 61.448               | 4.25                                | 61.448              | 0.000         | 0.23             | P       |
| B03                                                                                                                                                          |                                | 4.26                                 | 61.798               | 4.26                                | 61.797              | 0.002         | 0.00             | P       |
| B04                                                                                                                                                          |                                | 4.26                                 | 61.766               | 4.26                                | 61.766              | 0.000         | 0.00             | P       |
| B05                                                                                                                                                          |                                | 4.26                                 | 61.898               | 4.25                                | 61.898              | 0.000         | 0.23             | P       |
| B06                                                                                                                                                          | After 25 cycles, fully charged | 4.26                                 | 61.808               | 4.26                                | 61.808              | 0.000         | 0.00             | P       |
| B07                                                                                                                                                          |                                | 4.26                                 | 61.676               | 4.26                                | 61.676              | 0.000         | 0.00             | P       |
| B08                                                                                                                                                          |                                | 4.26                                 | 61.728               | 4.26                                | 61.728              | 0.000         | 0.00             | P       |
| B09                                                                                                                                                          |                                | 4.26                                 | 61.932               | 4.25                                | 61.931              | 0.002         | 0.23             | P       |
| B10                                                                                                                                                          |                                | 4.26                                 | 61.868               | 4.26                                | 61.868              | 0.000         | 0.00             | P       |
| Supplementary information:<br>- No leakage<br>- No venting,<br>- No short-circuit<br>- No rupture<br>- No explosion<br>- No fire<br>- Other (please explain) |                                |                                      |                      |                                     |                     |               |                  |         |

| 6.4.4                                                                                                                                                        |                                | TABLE: Shock                         |                      |                                     |                     |               |                  | P       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------|----------------------|-------------------------------------|---------------------|---------------|------------------|---------|
| Sample No.                                                                                                                                                   | Precondition                   | Open circuit voltage before test (V) | Mass before test (g) | Open circuit voltage after test (V) | Mass after test (g) | Mass loss (%) | Voltage loss (%) | Results |
| B01                                                                                                                                                          | At first cycle, fully charged  | 4.26                                 | 61.548               | 4.26                                | 61.548              | 0.000         | 0.00             | P       |
| B02                                                                                                                                                          |                                | 4.25                                 | 61.448               | 4.25                                | 61.447              | 0.002         | 0.00             | P       |
| B03                                                                                                                                                          |                                | 4.26                                 | 61.797               | 4.26                                | 61.797              | 0.000         | 0.00             | P       |
| B04                                                                                                                                                          |                                | 4.26                                 | 61.766               | 4.26                                | 61.766              | 0.000         | 0.00             | P       |
| B05                                                                                                                                                          |                                | 4.25                                 | 61.898               | 4.25                                | 61.898              | 0.000         | 0.00             | P       |
| B06                                                                                                                                                          | After 25 cycles, fully charged | 4.26                                 | 61.808               | 4.25                                | 61.808              | 0.000         | 0.23             | P       |
| B07                                                                                                                                                          |                                | 4.26                                 | 61.676               | 4.26                                | 61.675              | 0.002         | 0.00             | P       |
| B08                                                                                                                                                          |                                | 4.26                                 | 61.728               | 4.26                                | 61.728              | 0.000         | 0.00             | P       |
| B09                                                                                                                                                          |                                | 4.25                                 | 61.931               | 4.25                                | 61.931              | 0.000         | 0.00             | P       |
| B10                                                                                                                                                          |                                | 4.26                                 | 61.868               | 4.25                                | 61.868              | 0.000         | 0.23             | P       |
| Supplementary information:<br>- No leakage<br>- No venting,<br>- No short-circuit<br>- No rupture<br>- No explosion<br>- No fire<br>- Other (please explain) |                                |                                      |                      |                                     |                     |               |                  |         |

| 6.4.5                                                                                                                                                                                                     |                                | TABLE: External short-circuit |                               |                                | P       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|---------|
| Sample No.                                                                                                                                                                                                | Precondition                   | Ambient temperature (°C)      | Maximum case temperature (°C) | Total external resistance (mΩ) | Results |
| B01                                                                                                                                                                                                       | At first cycle, fully charged  | 56.3                          | 57.4                          | 90.5                           | P       |
| B02                                                                                                                                                                                                       |                                | 56.5                          | 57.6                          | 87.4                           | P       |
| B03                                                                                                                                                                                                       |                                | 56.4                          | 57.5                          | 88.9                           | P       |
| B04                                                                                                                                                                                                       |                                | 56.6                          | 57.8                          | 88.1                           | P       |
| B05                                                                                                                                                                                                       |                                | 56.7                          | 58.0                          | 85.7                           | P       |
| B06                                                                                                                                                                                                       | After 25 cycles, fully charged | 56.6                          | 57.6                          | 86.4                           | P       |
| B07                                                                                                                                                                                                       |                                | 56.5                          | 57.4                          | 86.9                           | P       |
| B08                                                                                                                                                                                                       |                                | 56.4                          | 57.6                          | 91.5                           | P       |
| B09                                                                                                                                                                                                       |                                | 56.6                          | 57.7                          | 89.2                           | P       |
| B10                                                                                                                                                                                                       |                                | 56.7                          | 57.6                          | 92.0                           | P       |
| Supplementary information: <ul style="list-style-type: none"><li>- No excessive temperature rise</li><li>- No rupture</li><li>- No explosion</li><li>- No fire</li><li>- Other (please explain)</li></ul> |                                |                               |                               |                                |         |

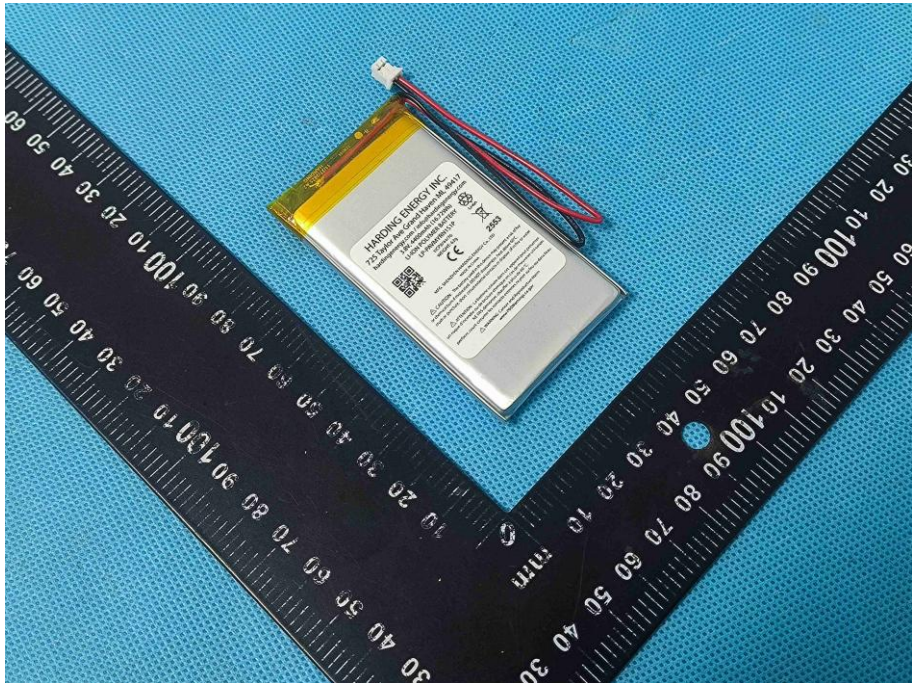
| 6.4.6C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                                                                                                                              | Precondition                | Open circuit voltage before test (V) | Maximum case temperature (°C) | Results |   |
| C01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | At first cycle, at 50% DOD  | 3.85                                 | 24.1                          | P       |   |
| C02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| C03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| C04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| C05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| C06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | After 25 cycles, at 50% DOD | 3.84                                 | 23.3                          | P       |   |
| C07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| C08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| C09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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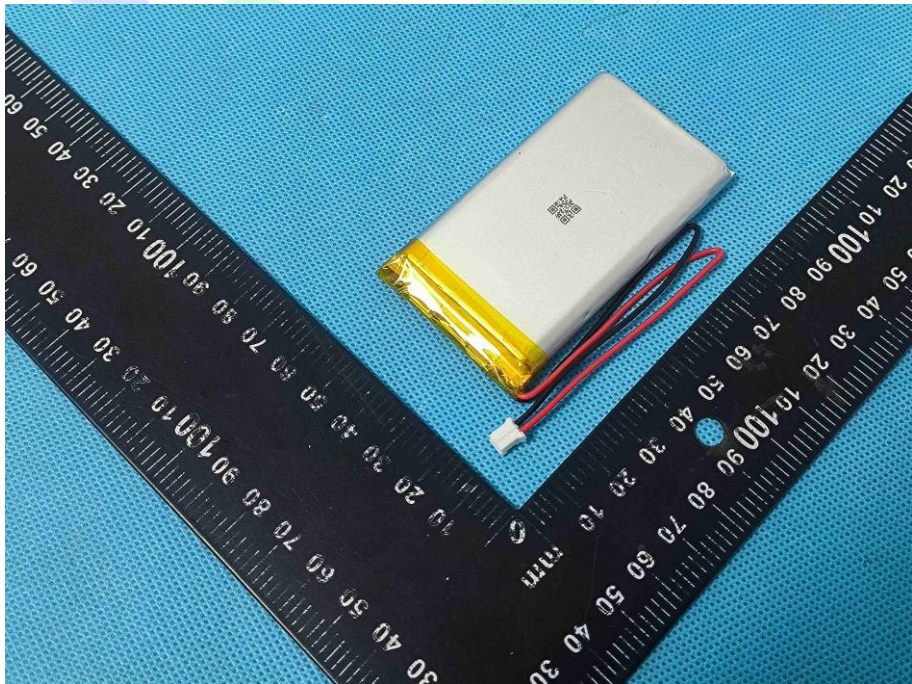
| 6.5.1                                                                                                                                 |                             | TABLE: Overcharge                    |                             |         | P |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------|-----------------------------|---------|---|
| Sample No.                                                                                                                            | Precondition                | Open circuit voltage before test (V) | The voltage of the test (V) | Results |   |
| B11                                                                                                                                   | At first cycle, at 50% DOD  | 4.33                                 | 8.7                         | P       |   |
| B12                                                                                                                                   |                             | 4.33                                 | 8.7                         | P       |   |
| B13                                                                                                                                   |                             | 4.33                                 | 8.7                         | P       |   |
| B14                                                                                                                                   |                             | 4.33                                 | 8.7                         | P       |   |
| B15                                                                                                                                   |                             | 4.33                                 | 8.7                         | P       |   |
| B16                                                                                                                                   | After 25 cycles, at 50% DOD | 4.33                                 | 8.7                         | P       |   |
| B17                                                                                                                                   |                             | 4.33                                 | 8.7                         | P       |   |
| B18                                                                                                                                   |                             | 4.33                                 | 8.7                         | P       |   |
| B19                                                                                                                                   |                             | 4.33                                 | 8.7                         | P       |   |
| B20                                                                                                                                   |                             | 4.33                                 | 8.7                         | P       |   |
| Supplementary information:                                                                                                            |                             |                                      |                             |         |   |
| <div><div>- No excessive temperature rise</div><div>- No explosion</div><div>- No fire</div><div>- Other (please explain)</div></div> |                             |                                      |                             |         |   |

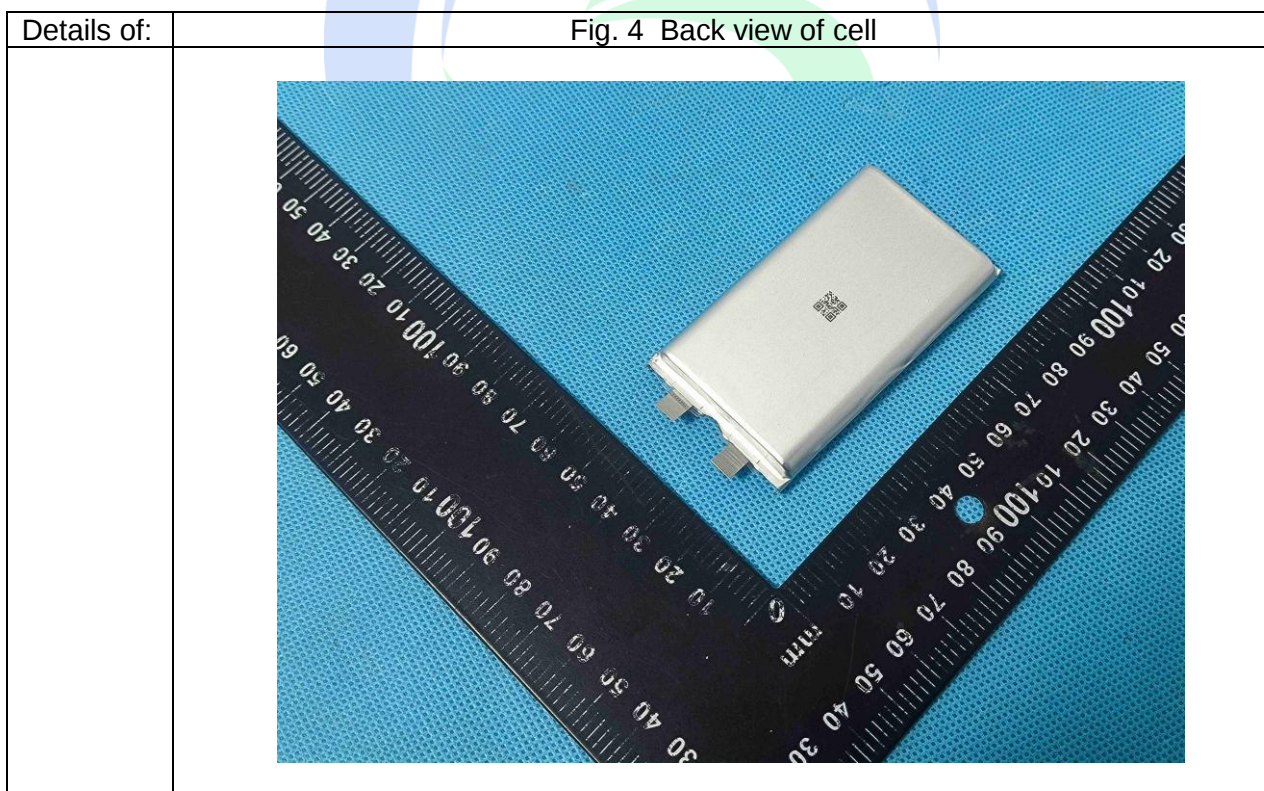
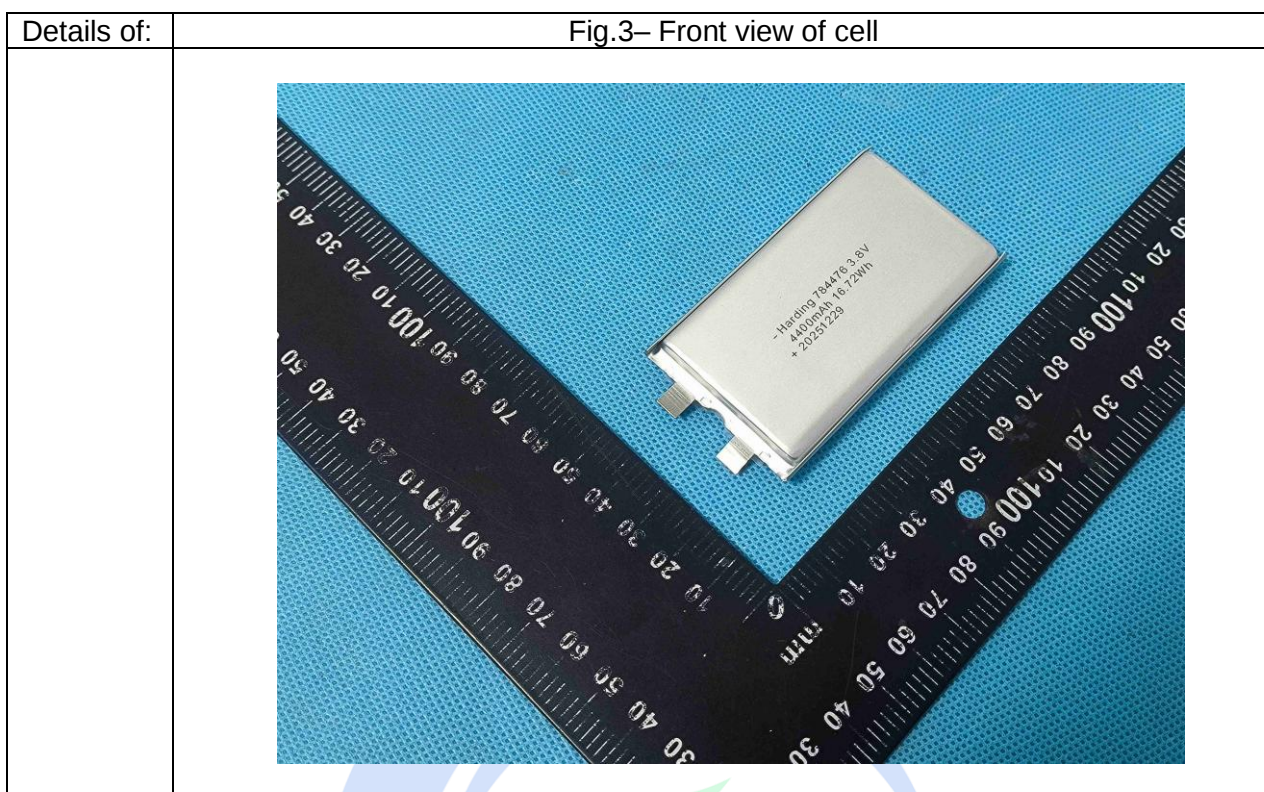
| 6.5.2                                                                                 |                                   | TABLE: Forced discharge              |                                       |                                                  | P       |
|---------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------|---------------------------------------|--------------------------------------------------|---------|
| Sample No.                                                                            | Precondition                      | Open circuit voltage before test (V) | Measured reverse charging current (A) | Total time for reversed charging application (h) | Results |
| C11                                                                                   | At first cycle, fully discharged  | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| C12                                                                                   |                                   | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| C13                                                                                   |                                   | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| C14                                                                                   |                                   | 3.23                                 | 4.4                                   | 1.0                                              | P       |
| C15                                                                                   |                                   | 3.23                                 | 4.4                                   | 1.0                                              | P       |
| C16                                                                                   |                                   | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| C17                                                                                   |                                   | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| C18                                                                                   |                                   | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| C19                                                                                   |                                   | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| C20                                                                                   |                                   | 3.23                                 | 4.4                                   | 1.0                                              | P       |
| C21                                                                                   | After 25 cycles, fully discharged | 3.23                                 | 4.4                                   | 1.0                                              | P       |
| C22                                                                                   |                                   | 3.23                                 | 4.4                                   | 1.0                                              | P       |
| C23                                                                                   |                                   | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| C24                                                                                   |                                   | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| C25                                                                                   |                                   | 3.23                                 | 4.4                                   | 1.0                                              | P       |
| C26                                                                                   |                                   | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| C27                                                                                   |                                   | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| C28                                                                                   |                                   | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| C29                                                                                   |                                   | 3.23                                 | 4.4                                   | 1.0                                              | P       |
| C30                                                                                   |                                   | 3.22                                 | 4.4                                   | 1.0                                              | P       |
| Supplementary information:<br>- No explosion<br>- No fire<br>- Other (please explain) |                                   |                                      |                                       |                                                  |         |

## Appendix 1

### Photo Documentation

| Details of: | Fig.1– Front view of battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |  <p>A photograph showing the front view of a rectangular battery. The battery is silver with a yellow label on the left side. The label contains text including 'HAKONE ENERGY INC.', '7.0mAh', and '3.7V'. Two red and black wires are attached to the top of the battery. The battery is placed on a blue textured surface next to a black ruler with white markings. The ruler shows measurements in centimeters and millimeters.</p> |

| Details of: | Fig. 2 Back view of battery                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |  <p>A photograph showing the back view of the same rectangular battery. The back is silver and has a small black label with 'HAKONE' and '3.7V' visible. The yellow label from the front is visible on the left edge. The same red and black wires are attached. The battery is placed on the same blue textured surface next to the same black ruler.</p> |



---End of Test Report---