

Client:	Nanozen Industries Inc.	Date Issued:	July 16, 2026
Project:	2022260-C05	Report Revision	2.0
Report #	2022260-C05	Issued by	International Testing Laboratory Inc.

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TEST REPORT INFORMATION

Report reference No. : 2022260-C05

Report revision: : 2.0

Report Compiled and Evaluated by
(printed name and signature):

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Tested by
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Amandeep Jathaul

Reviewed by
(printed name and signature):

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Date of issue : July 16, 2026

Testing Laboratory Name : International Testing Laboratory Inc.

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Website: www.intertestlab.com

Test Location Name : International Testing Laboratory Inc.

Unit 105-12031 Horseshoe Way, Richmond BC V7A 4V4

Address :

Ph: +1 604-238-5060; Email: info@intertestlab.com

Website: www.intertestlab.com

Applicant's Name : Nanozen Industries Inc.

311- 8988 Fraserton Court, Burnaby, BC, V5J 5H8

Address :

Ph: +1 778 650-4385 Email: support@nanozen.com

Website: www.nanozen.com

Test specification

Standards..... :

➤ UN Manual of Tests and Criteria, Revision 8 (Rev.8, 2023 Edition) Subsection UN38.3

Test procedure :

T.1 Altitude simulation, T.2 Thermal test, T.3 Vibration, T.4 Shock, T.5 External Short Circuit and T.7 Overcharge Test

Non-standard test method :

N/A

Test item description :

➤ Rechargeable Lithium-ion Battery

Manufacturer :

Nanozen Industries Inc.

311- 8988 Fraserton Court, Burnaby, BC, V5J 5H8

Ph: +1 778 650-4385 Email: support@nanozen.com

Website: www.nanozen.com

Model and/or type reference :

➤ 10-00144-0F

Serial numbers :

1261310402, 1261310403, 1261310404, 1261310405,
1261310408, 1261310409, 1261310410, 1261310411,
1261310412, 1261310401, 1261310406, and 1261310407

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Rating(s) : Other Rating(s)..... : Cell info..... :	Nominal Voltage: 3.6V, Capacity: 9Ah, Nominal Energy: 32.4Wh, Max Charging Voltage: 4.2V, Weight: 148.5g Cell configuration: 1S3P, Manufacturer: Samsung, Cell model: INR18650-30Q (<i>which is already UN38.3 certified</i>), Battery Dimensions: 67mm * 36.73mm (141.56mm with cable and connector)
Sampling Plan Used..... : ☒ No ☐ Yes See Appendix B	

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Particulars: test item vs. test requirements	
Equipment mobility	N/A
Test case verdicts	
Test case does not apply to the test object :	N/A (Not-applicable)
Test item does meet the requirement ...:	P (Pass)
Test item does not meet the requirement :	F (Fail)/Non-Compliant
Testing	
Date of receipt of test item	May 20, 2026
Date(s) of performance of test	May 28 th – June 12, 2026
General Remarks: This report summarizes the testing for battery assembly by Nanozen Industries Inc. in accordance with UN38.3. This report is not valid as a CB Test Report unless appended by an approved CB Testing Laboratory and appended to a CB Test Certificate. The test result presented in this report relate only to the object(s) tested and the test verdicts are also listed in testing section of the report . This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. “(see Enclosure #)” refers to additional information appended to the report. “(see appended table)” refers to a table appended to the report. ☐ Throughout this report a comma is used as the decimal separator. ☒ Throughout this report a period is used as the decimal separator. ☒ SI units or ☐ ____ Other Units. ☒ (Specify test description): This information is supplied by the customer which can affect the validity of results. Client takes full responsible for the validity of the information provided. ☒ When INTL is not responsible for the sampling stage (e.g. the sample has been provided by the customer), INTL performed all the testing for the sample received (as is) from the customer. ☒ Measurement Uncertainty Consideration (If Any): N/A ☒ Specific Opinions and interpretations (If Any): ☒ Revision History (If Any): 2.0	
General product information: This report summarizes the battery tests performed on battery assembly manufactured by Nanozen Industries Inc. The batteries were evaluated for Altitude, Thermal, Vibration, Shock, External Short Circuit and, Overcharge Test in accordance with UN38.3. For all of these tests 4 batteries after first cycle, in fully charged states and 4 batteries after 25 cycles ending in fully charged states were used.	
Deviations from Standard Test Method: Not applicable	

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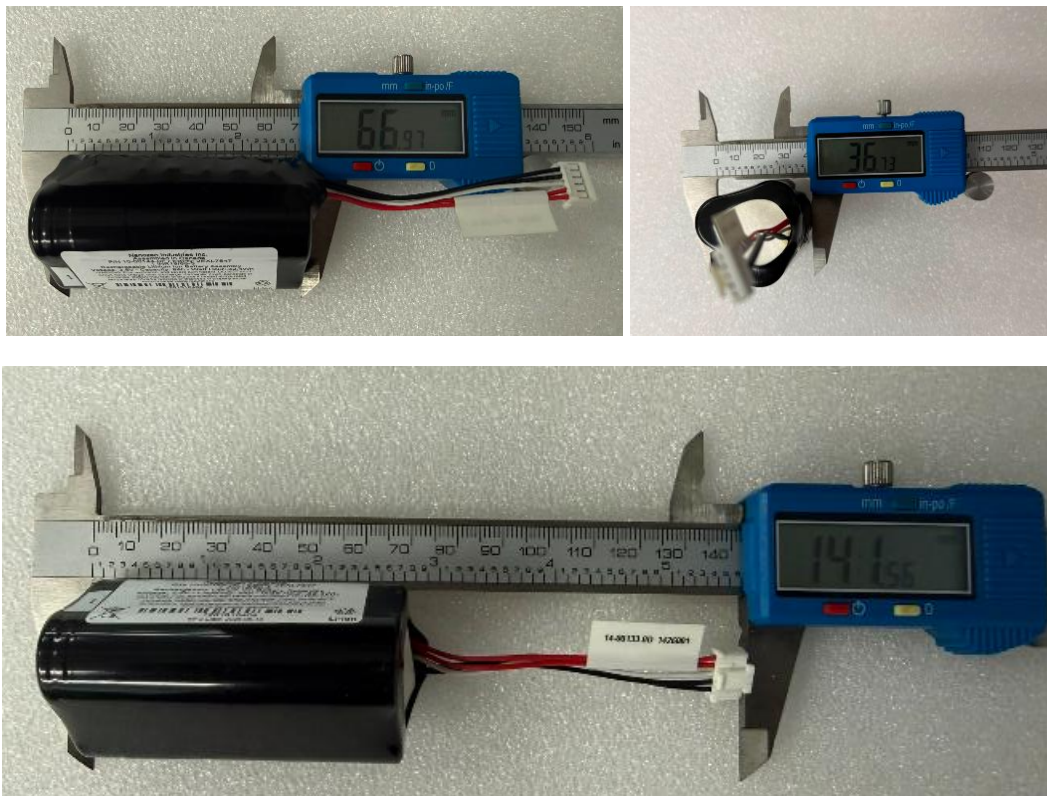
SAMPLE UNDER TEST INFORMATION

The battery pack evaluated in this report is a rechargeable lithium-ion battery pack manufactured by Nanozen Industries Inc., located at 311-8988 Fraserton Court, Burnaby, BC, V5J 5H8, Canada. The battery has a nominal voltage of 3.6 V, a rated capacity of 9 Ah, and a nominal energy of 32.4 Wh, with a maximum charging voltage of 4.2 V.

It consists of Samsung INR18650-30Q lithium-ion cells arranged in a 1S3P (one series, three parallel) configuration. The battery pack weighs approximately 148.5 g and measures 67 mm × 36.73 mm (approximately 141.56 mm including the cable and connector).

The maximum discharge current is 2.3 A, which is limited by the integrated battery protection circuit. The maximum charging current is 4.5 A.

Since the battery contains three cells connected in parallel, each cell is charged at a maximum of 1.5 A, resulting in a combined charging current of 4.5 A. When installed in the intended device, the actual charging current is lower and is limited by the external 5 V AC/DC power adapter, which is rated at approximately 2–3 A.

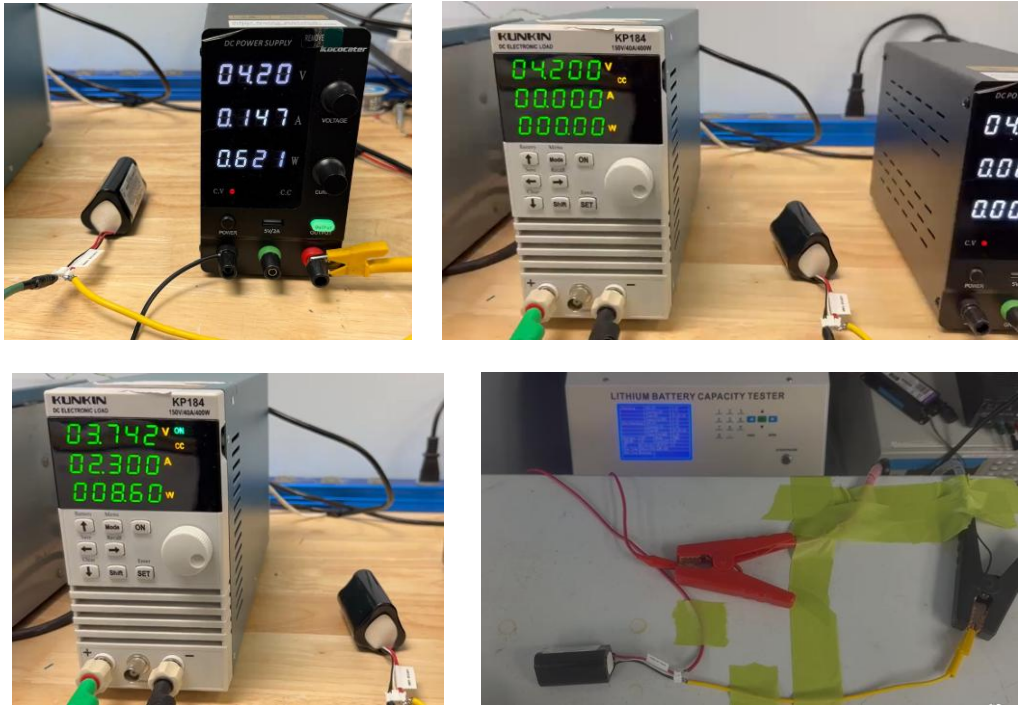


Sample Photos

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Charge Discharge Cycles: The battery samples were subjected to 25 charge/discharge cycles using a programmable lithium-ion battery tester, as well as DC power supplies and an electronic DC load. Each charge cycle was performed using a maximum charging current of 4.5 A with a constant-current/constant-voltage (CC/CV) charging profile to a maximum charging voltage of 4.2 V. Each discharge cycle was carried out at a maximum discharge current of 2.3 A, which is limited by the battery's integrated protection circuit. All 25 charge/discharge cycles were completed successfully without abnormalities prior to commencement of the UN 38.3 test program. (Charge duration: 2.5Hours and Discharge duration: 4Hours based on maximum discharge current of 2.3A).



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Test Summary

#	Enclosure	Test Description	Serial No.	Cycle Count	Standard/Clause	Verdict
1	10-00144-0F	Altitude Testing	1261310410	1 Cycle	Test T.1 UN38.3	Pass
			1261310402			
			1261310407			
			1261310411			
			1261310403	25 Cycles		
			1261310401			
			1261310406			
			1261310404			
2	10-00144-0F	Thermal Test	1261310410	1 Cycle	Test T.2 UN38.3	Pass
			1261310402			
			1261310407			
			1261310411			
			1261310403	25 Cycles		
			1261310401			
			1261310406			
			1261310404			
3	10-00144-0F	Vibration Test	1261310410	1 Cycle	Test T.3 UN38.3	Pass
			1261310402			
			1261310407			
			1261310411			
			1261310403	25 Cycles		
			1261310401			
			1261310406			
			1261310404			
4	10-00144-0F	Shock Test	1261310410	1 Cycle	Test T.4 UN38.3	Pass
			1261310402			
			1261310407			
			1261310411			
			1261310403	25 Cycles		
			1261310401			
			1261310406			
			1261310404			
5	10-00144-0F	External Short Circuit Test	1261310410	1 Cycle	Test T.5 UN38.3	Pass
			1261310402			
			1261310407			
			1261310411			

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Test Equipment Used

Item	Type	Equipment No.	Calibration Due Date
1	Digital Timer	0028	May 15, 2027
2	Digital Multimeter with Temperature Reader	0219	September 24, 2026
3	Thermal temperature Chamber	0223	Used in conjunction with 3639
4	Data Logger	3639	March 13, 2027
5	Lithium Battery Capacity Tester	0198	Used in conjunction with 0028 and 0071
6	Altitude Chamber	3641	April 14, 2027
7	LCR Meter	0099	March 15, 2027
8	Electrodynamic Shaker ZH-1000CG	0145	September 11, 2026
9	Shock Machine HS-MI-2	0183	May 26, 2027
10	DMM	0228	June 10, 2027
11	DMM	0098	Aug 25, 2026
11	Current Clamp	0071	Aug 21 2026
12	DC load	0089	Used in conjunction with 0028 and 0098
13	DC Power Supply	0201	Used in conjunction with 0028 and 0098

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TEST 1: ALTITUDE SIMULATION

Test Date: 28th May 2026

Test Description: Altitude simulation test

Test standard: UN Manual of Tests and Criteria 38.3 – Test T.1

Environmental Condition:

Temperature	Relative Humidity	Pressure
25°C	45.6%	101.2 kpa

Sample Tested:

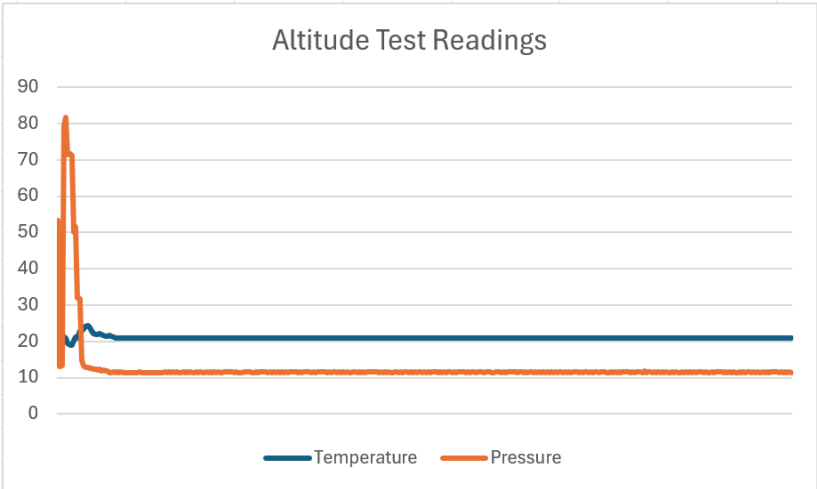
Equipment Under Test	Model Number	Serial Number
Battery Assembly	10-00144-0F	1261310410
		1261310402
		1261310407
		1261310411
		1261310403
		1261310401
		1261310406
		1261310404

Test Procedure: The altitude simulation test was performed on the sample in accordance with UN Manual of Tests and Criteria Section 38.3 Test T.1. The test sample was stored at a pressure of 11.6 kPa or less for a minimum duration of 6 hours at an ambient temperature of $20 \pm 5^\circ\text{C}$. The purpose of the test was to simulate low-pressure conditions experienced during air transport. Following exposure, the sample was visually inspected and electrically evaluated for mass loss, leakage, venting, disassembly, rupture, fire, and open circuit voltage retention.

Test Data:

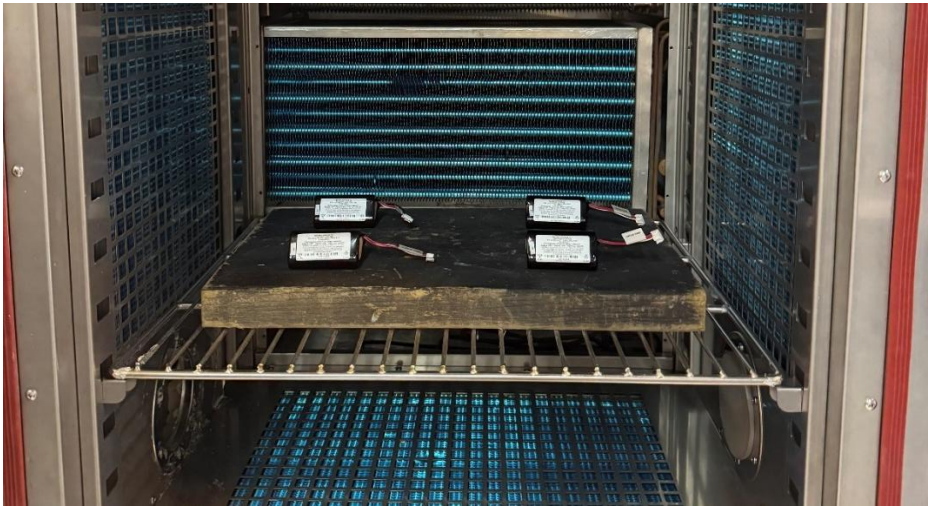
Sample	Cycle count	Weight Before (g)	Weight After (g)	Weight Change (%)	Open Circuit Voltage BEFORE (VDC)	Open Circuit Voltage AFTER (VDC)	Voltage Change (%)
1261310410	1	148.396	148.394	0.001	4.222	4.219	0.07
1261310402	1	148.104	148.101	0.002	4.24	4.235	0.12
1261310407	1	148.145	148.144	0.001	4.213	4.209	0.09
1261310411	1	148.094	148.094	0.000	4.205	4.2	0.12
1261310403	25	148.187	148.185	0.001	4.203	4.201	0.05
1261310401	25	148.432	148.43	0.001	4.203	4.199	0.10
1261310406	25	148.188	148.185	0.002	4.23	4.2	0.71
1261310404	25	148.288	148.286	0.001	4.213	4.201	0.28

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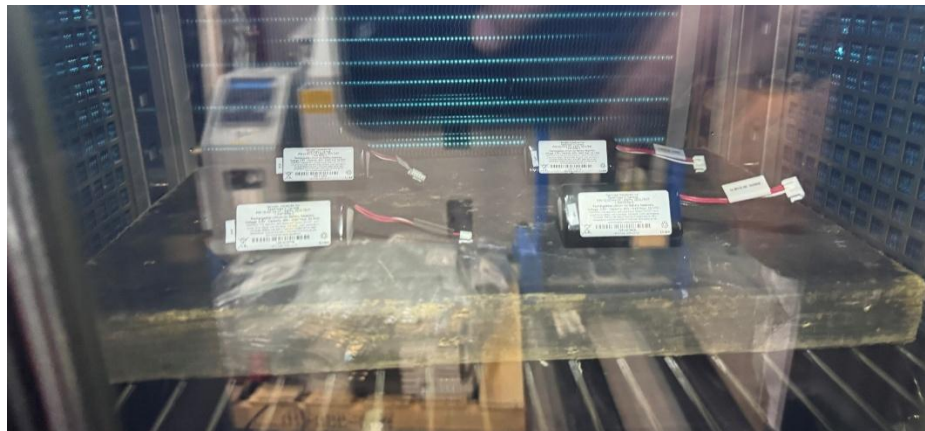


Pressure	Duration	Temperature	Comments	Verdict
11.6kPa	6H	23°C	The battery pack was tested and found to comply with the requirements of this test. No leakage, venting, disassembly, rupture, or fire was observed during or after the test.	Pass

#PICTURES FOR ALTITUDE TEST



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Observation: The battery pack was tested and found to comply with the requirements of this test. No leakage, venting, disassembly, rupture, or fire was observed during or after the test. In addition, the open-circuit voltage of the battery pack after testing remained greater than 90% of its voltage measured immediately prior to the test procedure.

Result: Passed

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TEST 2: THERMAL TEST

Test Date: May 29, 2026

Test Description: Thermal cycling Test

Test standard: UN Manual of Tests and Criteria 38.3 – Test T.2

Environmental Condition:

Temperature	Relative Humidity	Pressure
25°C	45.6%	101.2 kpa

Sample Tested:

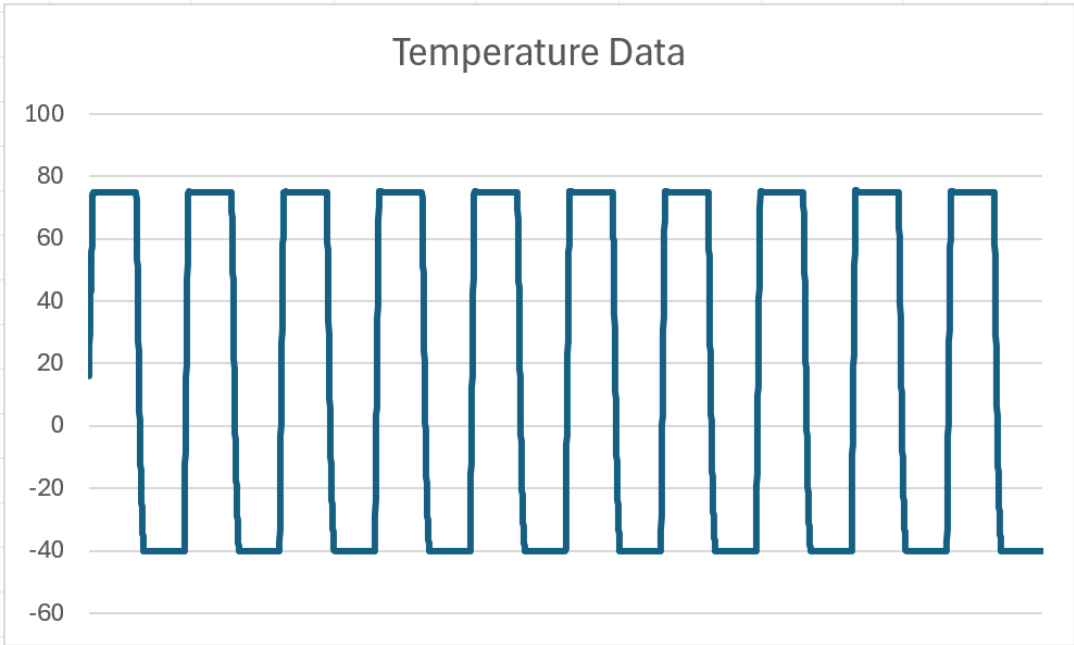
Equipment Under Test	Model Number	Serial Number
Battery Assembly	10-00144-0F	1261310410
		1261310402
		1261310407
		1261310411
		1261310403
		1261310401
		1261310406
		1261310404

Test Procedure: The thermal test was conducted in accordance with UN Manual of Tests and Criteria Section 38.3 Test T.2. Samples were exposed to 10 thermal cycles consisting of storage at $75 \pm 2^\circ\text{C}$ for at least 6 hours, followed by storage at $-40 \pm 2^\circ\text{C}$ for at least 6 hours. The maximum transfer time between temperature extremes did not exceed 30 minutes. After completion of cycling, samples were stabilized at ambient conditions ($20 \pm 5^\circ\text{C}$) for 24 hours. Samples were evaluated for mass loss, leakage, venting, rupture, disassembly, fire, and voltage retention.

Test Data:

Sample	Cycle count	Weight Before (g)	Weight After (g)	Weight Change (%)	Open Circuit Voltage BEFORE (VDC)	Open Circuit Voltage AFTER (VDC)	Voltage Change (%)
1261310410	1	148.394	148.391	0.0020	4.219	4.218	0.02
1261310402	1	148.101	148.1	0.0007	4.235	4.234	0.02
1261310407	1	148.144	148.142	0.0014	4.209	4.209	0.00
1261310411	1	148.094	148.093	0.0007	4.2	4.18	0.48
1261310403	25	148.185	148.18	0.0034	4.201	4.19	0.26
1261310401	25	148.43	148.425	0.0034	4.199	4.191	0.19
1261310406	25	148.185	148.176	0.0061	4.2	4.2	0.00
1261310404	25	148.286	148.283	0.0020	4.201	4.201	0.00

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High Temp	Low Temp	Cycles	Comments	Verdict
75°C	-40°C	10	The battery pack was tested and found to comply with the requirements of this test. No leakage, venting, disassembly, rupture, or fire was observed during or after the test.	Pass



Observation: The battery pack was tested and found to comply with the requirements of this test. No leakage, venting, disassembly, rupture, or fire was observed during or after the test. In addition, the open-circuit voltage of the battery pack after testing remained greater than 90% of its voltage measured immediately prior to the test procedure.

Result: Passed

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TEST 3: VIBRATION TEST

Test Date: June 3, 2026

Test Description: Transportation vibration simulation

Test standard: UN Manual of Tests and Criteria 38.3 – Test T.3

Environmental Condition:

Sample Tested:

Temperature	Relative Humidity	Pressure
25°C	45.6%	101.2 kpa

Equipment Under Test	Model Number	Serial Number
Battery Assembly	10-00144-0F	1261310410
		1261310402
		1261310407
		1261310411
		1261310403
		1261310401
		1261310406
		1261310404

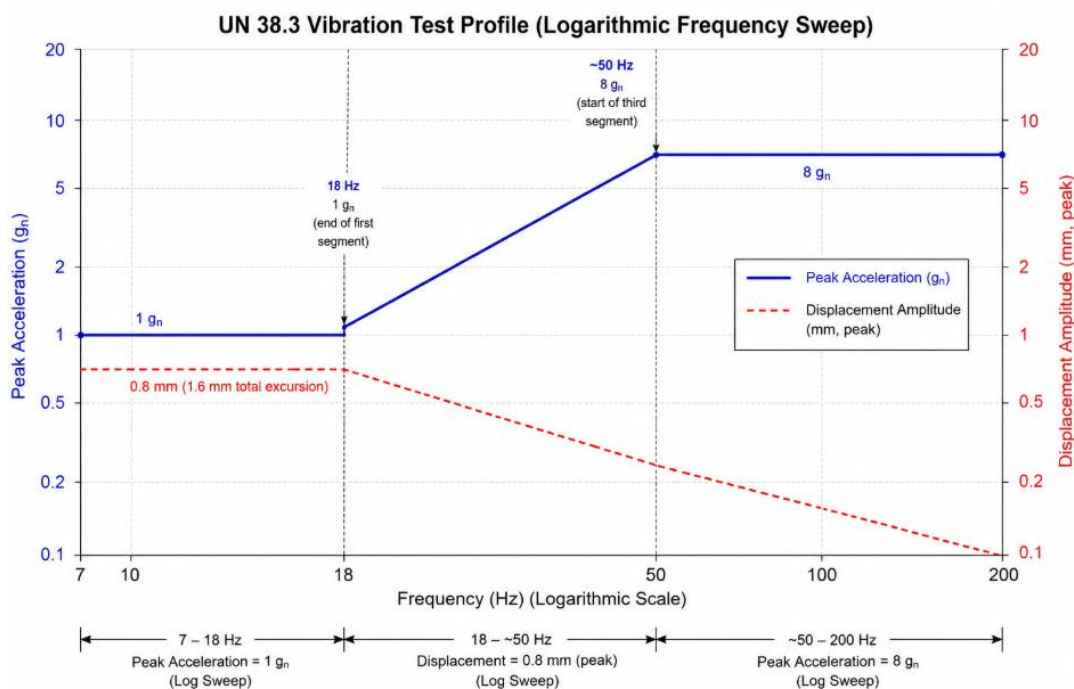
Test Procedure: The vibration test was performed according to UN 38.3 Test T.3. Samples were mounted securely and subjected to sinusoidal vibration with logarithmic frequency sweep between 7 Hz and 200 Hz and back over 15 minutes. Testing was repeated 12 times for a total duration of 3 hours in each of three mutually perpendicular axes. Samples were inspected for leakage, venting, rupture, fire, mass loss, and voltage degradation following testing.

Test Data:

Waveform	Frequency Range	Cycle Duration	Cycles / Axis	Axis	Duration / Axis	Total Duration
Sinusoidal Logarithmic sweep	7 Hz → 200 Hz → 7 Hz	15 min	12	X	3 hours	9 hours
				Y	3 hours	
				Z	3 hours	
Profile Used			7-18Hz -> 1g 18-50Hz -> 0.8mm 50-200Hz -> 8g			

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Sample	Cycle count	Weight Before (g)	Weight After (g)	Weight Change (%)	Open Circuit Voltage BEFORE (VDC)	Open Circuit Voltage AFTER (VDC)	Voltage Change (%)
1261310410	1	148.391	148.39	0.0007	4.218	4.205	0.31
1261310402	1	148.1	148.1	0.0000	4.234	4.225	0.21
1261310407	1	148.142	148.141	0.0007	4.209	4.2	0.21
1261310411	1	148.093	148.093	0.0000	4.18	4.15	0.72
1261310403	25	148.18	148.15	0.0202	4.19	4.18	0.24
1261310401	25	148.425	148.421	0.0027	4.191	4.189	0.05
1261310406	25	148.176	148.174	0.0013	4.2	4.195	0.12
1261310404	25	148.283	148.281	0.0013	4.201	4.195	0.14



Observation: The battery pack was tested and found to comply with the requirements of this test. No leakage, venting, disassembly, rupture, or fire was observed during or after the test. In addition, the open-circuit voltage of the battery pack after testing remained greater than 90% of its voltage measured immediately prior to the test procedure.

Result: Passed

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TEST 4: SHOCK TEST

Test Date: June 5, 2026

Test Description: Shock Test

Test standard: UN Manual of Tests and Criteria 38.3 – Test T.4

Environmental Condition:

Temperature	Relative Humidity	Pressure
25°C	45.6%	101.2 kpa

Sample Tested:

Equipment Under Test	Model Number	Serial Number
Battery Assembly	10-00144-0F	1261310410
		1261310402
		1261310407
		1261310411
		1261310403
		1261310401
		1261310406
		1261310404

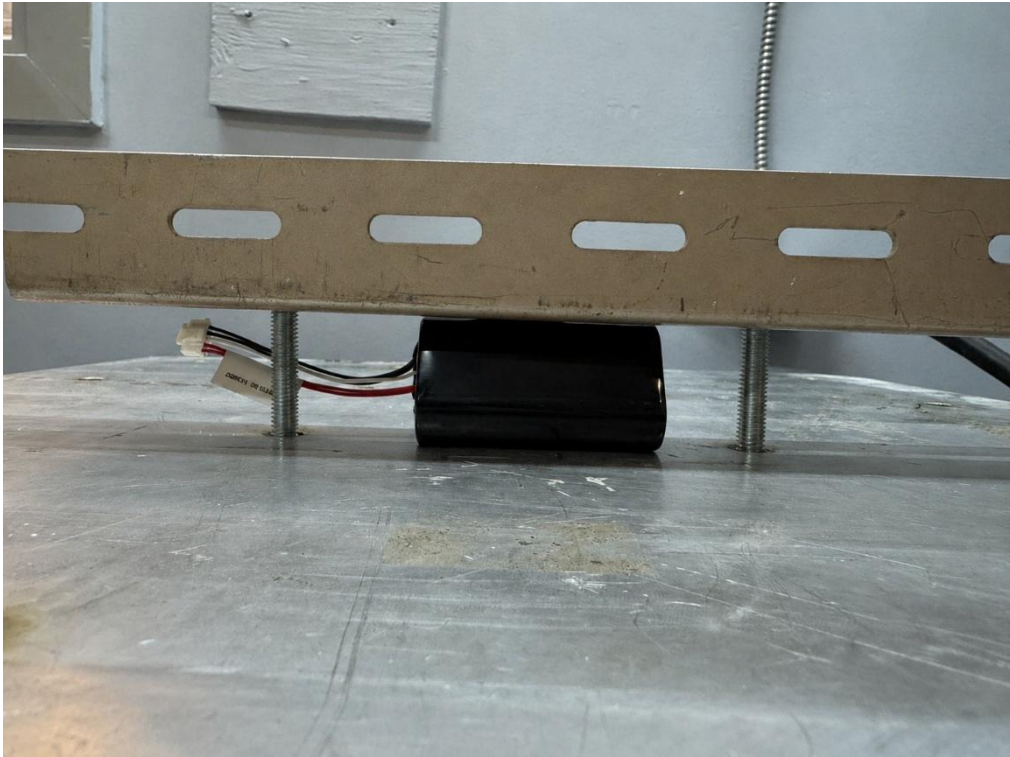
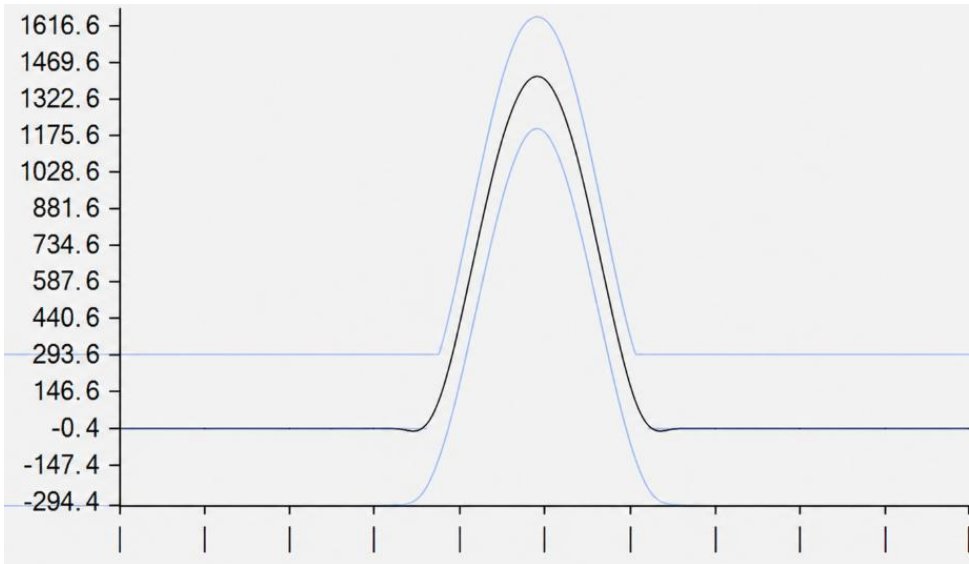
Test Procedure: The shock test was performed in accordance with UN 38.3 Test T.4. Samples were subjected to 18 mechanical shocks consisting of 3 positive and 3 negative shocks in each of 3 perpendicular directions. Small samples received shocks at 150 gn peak acceleration with 6 ms pulse duration. Samples were evaluated for leakage, rupture, disassembly, fire, and voltage retention.

Test Data:

Sample	Cycle count	Weight Before (g)	Weight After (g)	Weight Change (%)	Open Circuit Voltage BEFORE (VDC)	Open Circuit Voltage AFTER (VDC)	Voltage Change (%)
1261310410	1	148.39	148.39	0.0000	4.205	4.204	0.02
1261310402	1	148.1	148.1	0.0000	4.225	4.221	0.09
1261310407	1	148.141	148.139	0.0014	4.2	4.2	0.00
1261310411	1	148.093	148.091	0.0014	4.15	4.15	0.00
1261310403	25	148.15	148.15	0.0000	4.18	4.179	0.02
1261310401	25	148.421	148.42	0.0007	4.189	4.189	0.00
1261310406	25	148.174	148.171	0.0020	4.195	4.192	0.07
1261310404	25	148.281	148.278	0.0020	4.195	4.193	0.05

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Shock level	Duration	Number of Shocks	Comments	Verdict
150gn	6ms	18 shocks sin 3 axes	The battery pack was tested and found to comply with the requirements of this test. No leakage, venting, disassembly, rupture, or fire was observed during or after the test.	Pass



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TEST 5: EXTERNAL SHORT CIRCUIT TEST

Test Date: June 10, 2026

Test Description: External short circuit test

Test standard: UN Manual of Tests and Criteria 38.3 – Test T.5

Environmental Condition:

Temperature	Relative Humidity	Pressure
25°C	45.6%	101.2 kpa

Sample Tested:

Equipment Under Test	Model Number	Serial Number
Battery Assembly	10-00144-0F	1261310410
		1261310402
		1261310407
		1261310411
		1261310403
		1261310401
		1261310406
		1261310404

Test Procedure: The external short circuit test was conducted in accordance with UN 38.3 Test T.5. Samples were stabilized to $55 \pm 2^\circ\text{C}$ and subjected to a short circuit condition with total resistance less than 0.1 ohm. The condition was maintained for at least 1 hour after external temperature returned to $55 \pm 2^\circ\text{C}$. Samples were then observed for an additional 6 hours. External temperature and evidence of rupture, disassembly, or fire were monitored.

Test Data:

Sample	Cycle count	Temperature	Resistance	Duration	Comments	Verdict
1261310410	1	55°C	0.046Ω	6 Hours	➤ No leakage, venting, disassembly, rupture, or fire or heat observed during the test. ➤ External temperature did not exceed 170°C. ➤ After 6 hours, the battery did not show any signs of rupture ➤ Overcurrent protection triggered during the test.	Pass
1261310402	1	55°C	0.046Ω	6 Hours		Pass
1261310407	1	55°C	0.046Ω	6 Hours		Pass
1261310411	1	55°C	0.046Ω	6 Hours		Pass
1261310403	25	55°C	0.046Ω	6 Hours		Pass
1261310401	25	55°C	0.046Ω	6 Hours		Pass
1261310406	25	55°C	0.046Ω	6 Hours		Pass
1261310404	25	55°C	0.046Ω	6 Hours		Pass

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TEST 6: OVERCHARGE TEST

Test Date: June 6, 2026

Test Description: Overcharge Test

Test standard: UN Manual of Tests and Criteria 38.3 – Test T.7

Environmental Condition:

Temperature	Relative Humidity	Pressure
22.9°C	45.6%	101.2 kpa

Sample Tested:

Equipment Under Test	Model Number	Serial Number
Battery Assembly	10-00144-0F	1261310408
		1261310412
		1261310405
		1261310409
		1261310403
		1261310401
		1261310406
		1261310404

Test Procedure: The overcharge test was performed in accordance with UN 38.3 Test T.7. Rechargeable batteries were charged at twice the manufacturer's maximum recommended continuous charging current. Testing was conducted for 24 hours at ambient temperature using the required voltage limits specified by the standard. Samples were observed for 7 days after testing to identify disassembly or fire.

Test Data:

Sample	Charge Current	Voltage	Comments	Verdict
1261310408	9.00A	7.2 and 8.4VDC	➤ No leakage, venting, disassembly, rupture, or fire or heat observed during the test. ➤ Overcharge / Over current protection triggered during the test when required test current and test voltage was applied for overcharging.	Pass
1261310412	9.00A	7.2 and 8.4VDC		Pass
1261310405	9.00A	7.2 and 8.4VDC		Pass
1261310409	9.00A	7.2 and 8.4VDC		Pass
1261310403	9.00A	7.2 and 8.4VDC		Pass
1261310401	9.00A	7.2 and 8.4VDC		Pass
1261310406	9.00A	7.2 and 8.4VDC		Pass
1261310404	9.00A	7.2 and 8.4VDC		Pass

