TEST REPORT

Applicant:
Address:

Report on the submitted sample(s) said to be:
Name: Battery
Type/Model: 18650S22
Manufacturer:
Address:

Date of Receipt: Mar 04, 2024
Test period: Mar 04, 2024 to Mar 8, 2024

Test Request: In accordance with Directive 2006/66/EC and its amendment directives 2013/56/EU

Test Method: Please refer to following page(s).

Test Result Please refer to following page(s).

Test Conclusion: As specified by client, with reference to Directive 2006/66/EC and its amended Directive 2013/56/EU to determine Lead(Pb), Cadmium(Cd), Mercury(Hg) contents in the submitted sample

Teste By: Date: 2024/03/08

Checked By: Date: 2024/03/08

Approved By: Date: 2024/03/08

TEST REPORT

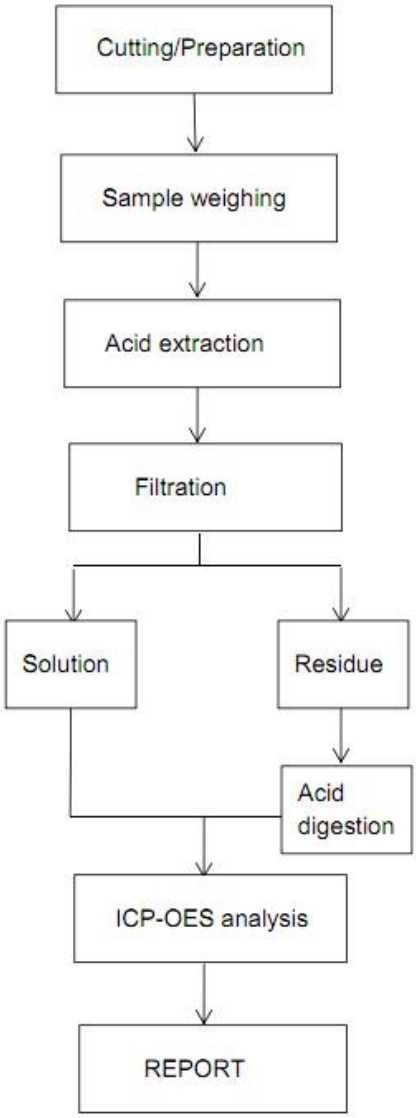
Sample description:
Battery

Test method: IEC 62321:2008–Electrotechnical Products - Determination of Levels of Regulated Substances (Lead, Mercury, Cadmium,)

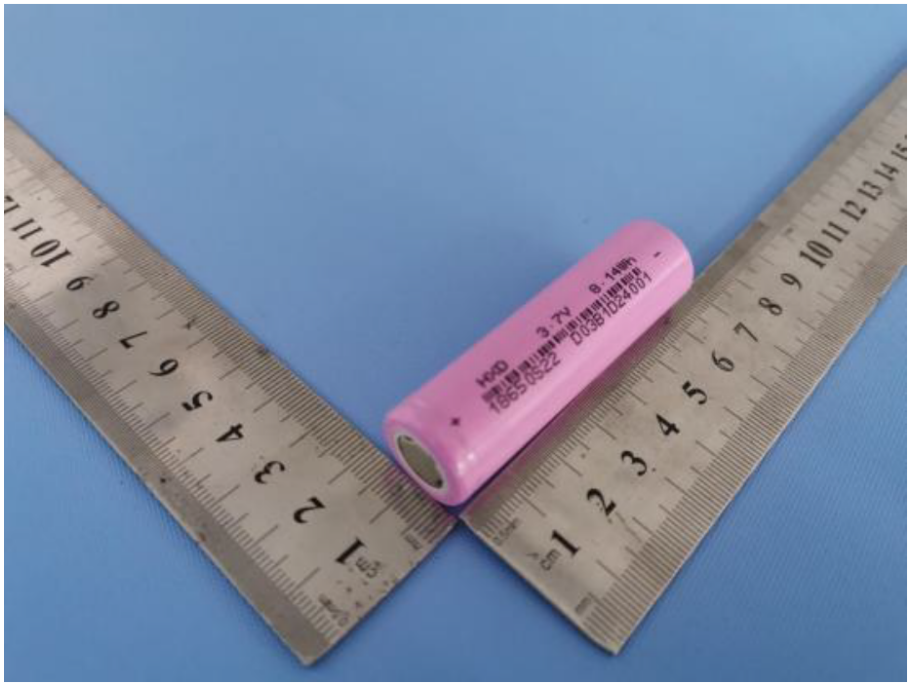
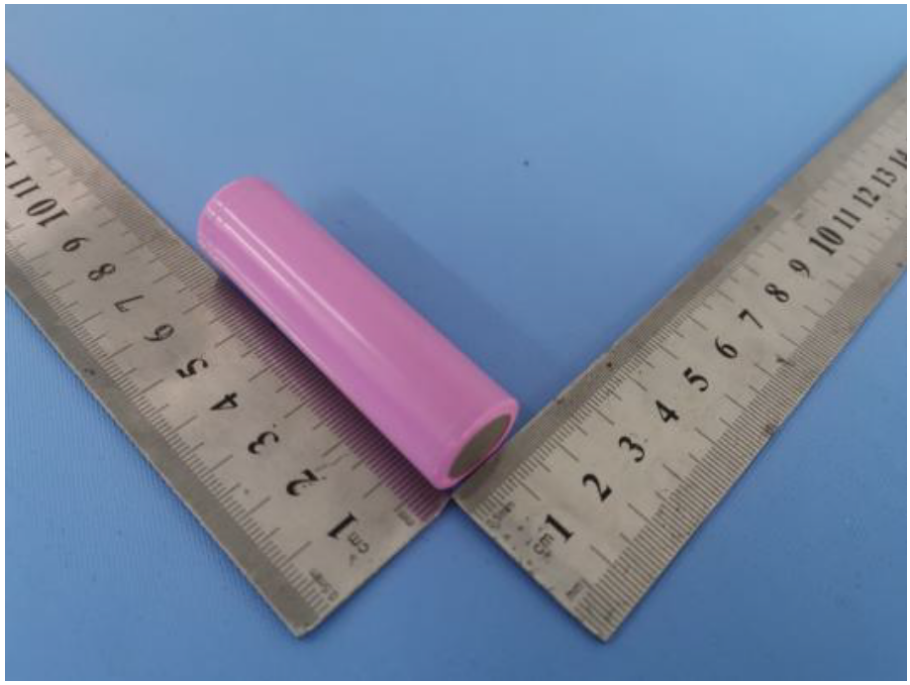
Test Item	Result (mg/kg)	Limit (%)
	18650S22	
Lead (Pb)	N.D.	--
Cadmium (Cd)	N.D.	0.002
Mercury (Hg)	N.D.	0.0005

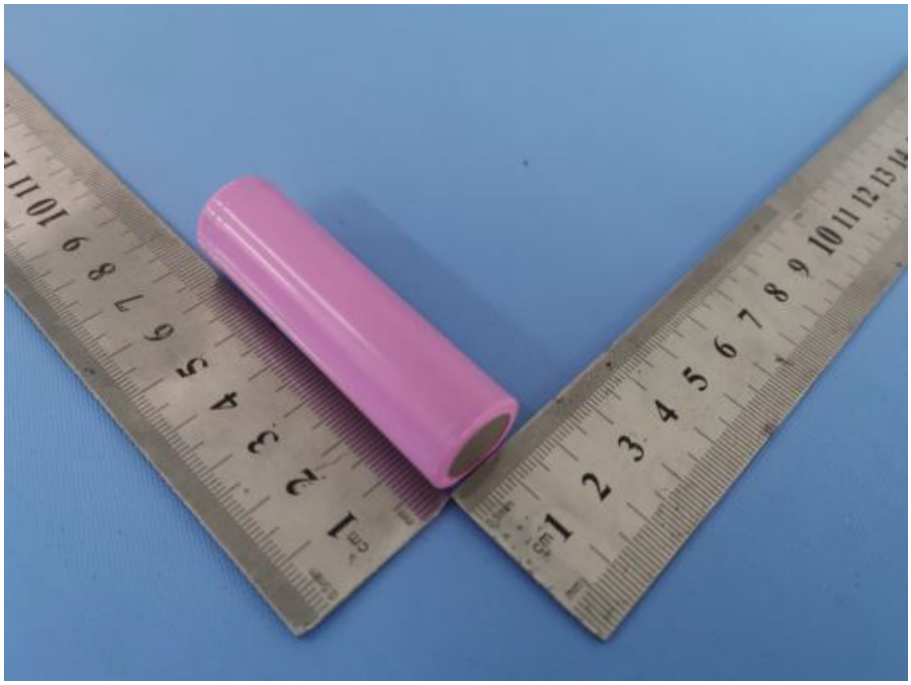
(1) 1 mg/kg = 1 ppm = 0.0001%
(2) N.D. = Not Detected (less than MDL)
(3) MDL = Method Detection Limit
(4) "--" = Not Regulated
(5) Remark: According to the Article 21(3) of Directive 2006/66/EC, Battery, accumulator and button cell shall include the chemical symbol Mercury when containing morn than 0.0005% of Hg, the chemical symbol Cadmium when containing more than 0.002% of Cd and the chemical symbol Pb when containing more than 0.004% of Pb

Testing Flow Chart:



TEST REPORT

Photo of Sample





---------End of Report----------

Test Report issued under the responsibility of:

TÜVRheinland®

TEST REPORT
IEC 62133-2
Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications – Part 2: Lithium systems

Report Number. ..... :	CN21YQFC 001
Date of issue ..... :	2024-3-08
Total number of pages ..... :	27 pages
Name of Testing Laboratory preparing the Report ..... :	Shenzhen Anbotek Compliance Laboratory Limited
Applicant's name ..... :	
Address ..... :	
Test specification:	
Standard ..... :	IEC 62133-2:2023, IEC 62133-2:2017/AMD1:2023
Test procedure ..... :	CB Scheme
Non-standard test method ..... :	N/A
TRF template used ..... :	IECEE OD-2023-F1:2023, Ed.1.4
Test Report Form No. ..... :	IEC62133_2B
Test Report Form(s) Originator .... :	DEKRA Certification B.V.
Master TRF ..... :	Dated 2024-03-08

If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

This report is not valid as a CB Test Report unless signed by an approved IECEE Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description ..... :	Lithium-ion Rechargeable Cell
Trade Mark(s) ..... :	
Manufacturer ..... :	Same as applicant
Model/Type reference ..... :	18650S20, 18650S22, 18650S25, 18650S26
Ratings ..... :	For model 18650S20: 3.7V, 2000mAh, 7.4Wh For model 18650S22: 3.7V, 2200mAh, 8.14Wh For model 18650S25: 3.7V, 2500mAh, 9.25Wh For model 18650S26: 3.7V, 2600mAh, 9.62Wh

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

☒	**CB Testing Laboratory:**	**Shenzhen Anbotek Compliance Laboratory Limited**	
Testing location/ address ..... :		East of 4/F, Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, P.R. China	
Tested by (name, function, signature) ..... :		Dely Yang (Engineer)	
Approved by (name, function, signature) .. :		Jeff Zhu (Reviewer)	
☐	**Testing procedure: CTF Stage 1:**		
Testing location/ address ..... :			
Tested by (name, function, signature) ..... :			
Approved by (name, function, signature) .. :			
☐	**Testing procedure: CTF Stage 2:**		
Testing location/ address ..... :			
Tested by (name + signature) ..... :			
Witnessed by (name, function, signature). :			
Approved by (name, function, signature) .. :			
☐	**Testing procedure: CTF Stage 3:**		
☐	**Testing procedure: CTF Stage 4:**		
Testing location/ address ..... :			
Tested by (name, function, signature) ..... :			
Witnessed by (name, function, signature). :			
Approved by (name, function, signature) .. :			
Supervised by (name, function, signature) :			

List of Attachments (including a total number of pages in each attachment):

Attachment 1: Official national differences (3 pages)

Attachment 2: Photo documentation (4 pages)

Summary of testing:

Tests performed (name of test and test clause):	**Testing location:**
cl.5.6.2 Design recommendation; cl.7.1 Charging procedure for test purposes (Cells); cl.7.2.1 Continuous charging at constant voltage (Cells); cl.7.3.1 External short circuit (Cells); cl.7.3.3 Free fall (Cells); cl.7.3.4 Thermal abuse (Cells); cl.7.3.5 Crush (Cells); cl.7.3.7 Forced discharge (Cells); cl.7.3.9 Design evaluation – Forced internal short-circuit (Cells) Tests are made with the number of cells specified in IEC 62133-2:2017+A1 Table 1.	**Shenzhen Anbotek Compliance Laboratory Limited** East of 4/F, Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, P.R. China

Summary of compliance with National Differences (List of countries addressed):

KR

KR=Republic of Korea

☒ **The product fulfils the requirements of EN 62133-2: 2017+A1**

Use of uncertainty of measurement for decisions on conformity (decision rule) :

☒ No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

☐ Other:… (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)

Information on uncertainty of measurement:

The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.

IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Lithium-ion Rechargeable Cell
18650S20 INR19/66
3.7V, 2000mAh, 7.4Wh
(+), (-)
2024.03
CAUTION
-Please use specified chargers only.
-Do not dis-assemble or apply pressure on cell.
-Do not allow metal objects to touch the cell terminals.
-Keep away from water to prevent short circuit.
-Exposing cell to open flames can cause explosion

For model 18650S20

Lithium-ion Rechargeable Cell
18650S22 INR19/66
3.7V, 2200mAh, 8.14Wh
(+), (-)
2024.03
CAUTION
-Please use specified chargers only.
-Do not dis-assemble or apply pressure on cell.
-Do not allow metal objects to touch the cell terminals.
-Keep away from water to prevent short circuit.
-Exposing cell to open flames can cause explosion

For model 18650S22

Lithium-ion Rechargeable Cell
18650S25 INR19/66
3.7V, 2500mAh, 9.25Wh
(+), (-)
2024.03
CAUTION
-Please use specified chargers only.
-Do not dis-assemble or apply pressure on cell.
-Do not allow metal objects to touch the cell terminals.
-Keep away from water to prevent short circuit.
-Exposing cell to open flames can cause explosion

For model 18650S25

Lithium-ion Rechargeable Cell
18650S26 INR19/66
3.7V, 2600mAh, 9.62Wh
(+), (-)
2024.03
CAUTION
-Please use specified chargers only.
-Do not dis-assemble or apply pressure on cell.
-Do not allow metal objects to touch the cell terminals.
-Keep away from water to prevent short circuit.
-Exposing cell to open flames can cause explosion

For model 18650S26

Remark:

The four models (Model name. 18650S20, 18650S22, 18650S25, 18650S26) are identical (same dimension, same chemical system, using same material), except the model name and the capacity.

Test item particulars.....:	
Classification of installation and use.....:	N/A
Supply Connection.....:	DC terminal contacts
Recommend charging method declared by the manufacturer.....:	Charging the battery with 0.5It A constant current and 4.25V constant voltage until the current reduces to 0.01It A at ambient 20°C±5°C
Discharge current (0,2 It A).....:	400mA for model 18650S20, 440mA for model 18650S22, 500mA for model 18650S25, 520mA for model 18650S26
Specified final voltage.....:	2.75V
Upper limit charging voltage per cell.....:	4.25V
Maximum charging current.....:	1.0It A
Charging temperature upper limit.....:	45°C
Charging temperature lower limit.....:	10°C
Polymer cell electrolyte type.....:	☐ gel polymer ☐ solid polymer ☒ N/A
Possible test case verdicts:	
- 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)
Testing.....:	
Date of receipt of test item .....:	2024-03-04
Date (s) of performance of tests.....:	2024-03-04 to 2024-03-08

General remarks:

"(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 / ☒ point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided ..... :	☐ **Yes** ☒ **Not applicable**

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) .....:	Same as applicant.

General product information and other remarks:

The cell consists of the positive electrode plate, negative electrode plate, separator, electrolyte and case. The positive and negative electrode plates are housed in the case in the state being separated by the separator.

The four models (Model name. 18650S20, 18650S22, 18650S25, 18650S26) are identical (same dimension, same chemical system, using same material), except the model name and the capacity.

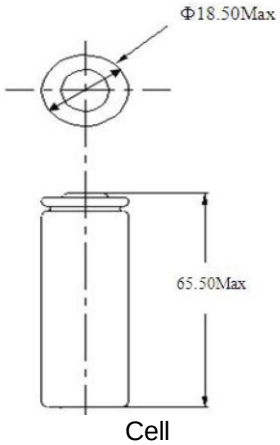
The main features of the cell are shown as below (clause 7.1.1):

Model	Rated capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Final Voltage
18650S20	2000mAh	3.7V	1000mA	1000mA	2000mA	4000mA	4.25V	2.75V
18650S22	2200mAh	3.7V	1100mA	1100mA	2200mA	4400mA	4.25V	2.75V
18650S25	2500mAh	3.7V	1250mA	1250mA	2500mA	5000mA	4.25V	2.75V
18650S26	2600mAh	3.7V	1300mA	1300mA	2600mA	5200mA	4.25V	2.75V

The main features of the cell in the battery are shown as below (clause 7.1.2):

Model	Upper limit charge voltage	Taper-off current	Lower charge temperature	Upper charge temperature
18650S20	4.25V	100mA	10°C	45°C
18650S22	4.25V	110mA	10°C	45°C
18650S25	4.25V	125mA	10°C	45°C
18650S26	4.25V	130mA	10°C	45°C

Construction:



Cell

Circuit diagram:

N/A, Cell Only

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
4	**PARAMETER MEASUREMENT TOLERANCES**		P
	Parameter measurement tolerances		P
5	**GENERAL SAFETY CONSIDERATIONS**		P
5.1	**General**		P
	Cells and batteries so designed and constructed that they are safe under conditions of both intended use and reasonably foreseeable misuse		P
5.2	**Insulation and wiring**		N/A
	The insulation resistance between the positive terminal and externally exposed metal surfaces of the battery (excluding electrical contact surfaces) is not less than 5 MΩ	No metal case exists.	N/A
	Insulation resistance (MΩ) ..... :	N/A	—
	Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements		N/A
	Orientation of wiring maintains adequate clearances and creepage distances between conductors		N/A
	Mechanical integrity of internal connections accommodates reasonably foreseeable misuse		N/A
5.3	**Venting**		P
	Battery cases and cells incorporate a pressure relief mechanism or are constructed so that they relieve excessive internal pressure at a value and rate that will preclude rupture, explosion and self-ignition	Venting mechanism exists on the top of cell.	P
	Encapsulation used to support cells within an outer casing does not cause the battery to overheat during normal operation nor inhibit pressure relief		N/A
5.4	**Temperature, voltage and current management**	Cell only	N/A
	Batteries are designed such that abnormal temperature rise conditions are prevented		N/A
	Batteries are designed to be within temperature, voltage and current limits specified by the cell manufacturer		N/A
	Batteries are provided with specifications and charging instructions for equipment manufacturers so that specified chargers are designed to maintain charging within the temperature, voltage and current limits specified		N/A
5.5	**Terminal contacts**		P
	The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current	DC terminal contacts complied with the requirements.	P

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	External terminal contact surfaces are formed from conductive materials with good mechanical strength and corrosion resistance	DC terminal contacts complied with the requirements.	P
	Terminal contacts are arranged to minimize the risk of short circuits		P
5.6	**Assembly of cells into batteries**		N/A
5.6.1	General	Cell only	N/A
	Each battery has an independent control and protection for current, voltage, temperature and any other parameter required for safety and to maintain the cells within their operating region		N/A
	This protection may be provided external to the battery such as within the charger or the end devices		N/A
	If protection is external to the battery, the manufacturer of the battery provide this safety relevant information to the external device manufacturer for implementation		N/A
	If there is more than one battery housed in a single battery case, each battery has protective circuitry that can maintain the cells within their operating regions		N/A
	Manufacturers of cells specify current, voltage and temperature limits so that the battery manufacturer/designer may ensure proper design and assembly		N/A
	Batteries that are designed for the selective discharge of a portion of their series connected cells incorporate circuitry to prevent operation of cells outside the limits specified by the cell manufacturer		N/A
	Protective circuit components are added as appropriate and consideration given to the end-device application		N/A
	The manufacturer of the battery provide a safety analysis of the battery safety circuitry with a test report including a fault analysis of the protection circuit under both charging and discharging conditions confirming the compliance		N/A
5.6.2	Design recommendation	Cell only	N/A
	For the battery consisting of a single cell or a single cellblock, it is recommended that the charging voltage of the cell does not exceed the upper limit of the charging voltage specified in Table 2		N/A

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	For the battery consisting of series-connected plural single cells or series-connected plural cellblocks, it is recommended that the voltages of any one of the single cells or single cellblocks does not exceed the upper limit of the charging voltage, specified in Table 2, by monitoring the voltage of every single cell or the single cellblocks		N/A
	For the battery consisting of series-connected plural single cells or series-connected plural cellblocks, it is recommended that charging is stopped when the upper limit of the charging voltage is exceeded for any one of the single cells or single cellblocks by measuring the voltage of every single cell or the single cellblocks		N/A
	For batteries consisting of series-connected cells or cell blocks, nominal charge voltage are not counted as an overcharge protection		N/A
	For batteries consisting of series-connected cells or cell blocks, cells have closely matched capacities, be of the same design, be of the same chemistry and be from the same manufacturer		N/A
	It is recommended that the cells and cell blocks are not discharged beyond the cell manufacturer's specified final voltage		N/A
	For batteries consisting of series-connected cells or cell blocks, cell balancing circuitry are incorporated into the battery management system		N/A
5.6.3	Mechanical protection for cells and components of batteries	Cell only	N/A
	Mechanical protection for cells, cell connections and control circuits within the battery are provided to prevent damage as a result of intended use and reasonably foreseeable misuse		N/A
	The mechanical protection can be provided by the battery case or it can be provided by the end product enclosure for those batteries intended for building into an end product		N/A
	The battery case and compartments housing cells are designed to accommodate cell dimensional tolerances during charging and discharging as recommended by the cell manufacturer		N/A
	For batteries intended for building into a portable end product, testing with the battery installed within the end product is considered when conducting mechanical tests		N/A
5.7	**Quality plan**		P

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	The manufacturer prepares and implements a quality plan that defines procedures for the inspection of materials, components, cells and batteries and which covers the whole process of producing each type of cell or battery	Complied. Quality plan provided.	P
5.8	**Battery safety components**		N/A
6	**TYPE TEST AND SAMPLE SIZE**		P
	Tests are made with the number of cells or batteries specified in Table 1 using cells or batteries that are not more than six months old		P
	The internal resistance of coin cells are measured in accordance with Annex D. Coin cells with internal resistance less than or equal to 3 Ω are tested in accordance with Table 1	Not coin cells	N/A
	Unless otherwise specified, tests are carried out in an ambient temperature of 20 °C ± 5 °C		P
	The safety analysis of 5.6.1 identify those components of the protection circuit that are critical for short-circuit, overcharge and over discharge protection	Cell only	N/A
	When conducting the short-circuit test, consideration is given to the simulation of any single fault condition that is likely to occur in the protecting circuit that would affect the short-circuit test	Cell only	N/A
7	**SPECIFIC REQUIREMENTS AND TESTS**		P
7.1	**Charging procedure for test purposes**		P
7.1.1	First procedure		P
	This charging procedure applies to subclauses other than those specified in 7.1.2		P
	Unless otherwise stated in this document, the charging procedure for test purposes is carried out in an ambient temperature of 20 °C ± 5 °C, using the method declared by the manufacturer	See page 7.	P
	Prior to charging, the battery has been discharged at 20 °C ± 5 °C at a constant current of 0,2 It A down to a specified final voltage	See page 7.	P
7.1.2	Second procedure		P
	This charging procedure applies only to 7.3.1, 7.3.4, 7.3.5, and 7.3.9		P

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	After stabilization for 1 h to 4 h, at an ambient temperature of the highest test temperature and the lowest test temperature, respectively, as specified in Table 2, cells are charged by using the upper limit charging voltage and maximum charging current, until the charging current is reduced to 0,05 It A, using a constant current to constant voltage charging method	Charge temperature specified by manufacturer: 10-45°C. 10°C used for lower temperature limit tests; 45°C used for upper temperature limit tests.	P
7.2	**Intended use**		P
7.2.1	Continuous charging at constant voltage (cells)	Tested complied.	P
	Fully charged cells are subjected for 7 days to a charge using the charging method for current and standard voltage specified by the cell manufacturer	Charging for 7days with 0.5It A and 4.25V.	P
	Results: no fire, no explosion, no leakage.....:	(See appended table 7.2.1)	P
7.2.2	Case stress at high ambient temperature (battery)	Cell only	N/A
	Oven temperature (°C).....:	N/A	—
	Results: no physical distortion of the battery case resulting in exposure of internal protective components and cells		N/A
7.3	**Reasonably foreseeable misuse**		P
7.3.1	External short-circuit (cell)	Tested complied.	P
	The cells were tested until one of the following occurred:		P
	- 24 hours elapsed; or		N/A
	- The case temperature declined by 20 % of the maximum temperature rise		P
	Results: no fire, no explosion.....:	(See appended table 7.3.1)	P
7.3.2	External short-circuit (battery)	Cell only	N/A
	The batteries were tested until one of the following occurred:		N/A
	- 24 hours elapsed; or		N/A
	- The case temperature declined by 20 % of the maximum temperature rise		N/A
	In case of rapid decline in short circuit current, the battery pack remained on test for an additional one hour after the current reached a low end steady state condition		N/A
	A single fault in the discharge protection circuit is conducted on one to four (depending upon the protection circuit) of the five samples before conducting the short-circuit test		N/A

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	A single fault applies to protective component parts such as MOSFET (metal oxide semiconductor field-effect transistor), fuse, thermostat or positive temperature coefficient (PTC) thermistor		N/A
	Results: no fire, no explosion ..... :	(See appended table 7.3.2)	N/A
7.3.3	Free fall	Tested complied.	P
	Results: no fire, no explosion	No fire. No explosion	P
7.3.4	Thermal abuse (cells)	Tested complied.	P
	Oven temperature (°C) ..... :	130	—
	Results: no fire, no explosion	No fire. No explosion	P
7.3.5	Crush (cells)	Tested complied.	P
	The crushing force was released upon:		P
	- The maximum force of 13 kN ± 0,78 kN has been applied; or		P
	- An abrupt voltage drop of one-third of the original voltage has been obtained		N/A
	Results: no fire, no explosion ..... :	(See appended table 7.3.5)	P
7.3.6	Over-charging of battery	Cell only	N/A
	The supply voltage which is:		N/A
	- 1,4 times the upper limit charging voltage presented in Table A.1 (but not to exceed 6,0 V) for single cell/cell block batteries or		N/A
	- 1,2 times the upper limit charging voltage resented in Table A.1 per cell for series connected multi-cell batteries, and		N/A
	- Sufficient to maintain a current of 2,0 It A throughout the duration of the test or until the supply voltage is reached		N/A
	Test was continued until the temperature of the outer casing:		N/A
	- Reached steady state conditions (less than 10 °C change in 30-minute period); or		N/A
	- Returned to ambient		N/A
	Results: no fire, no explosion ..... :	(See appended table 7.3.6)	N/A
7.3.7	Forced discharge (cells)	Tested complied.	P
	Discharge a single cell to the lower limit discharge voltage specified by the cell manufacturer		P
	The discharged cell is then subjected to a forced discharge at 1 It A to the negative value of the upper limit charging voltage		P

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	- The discharge voltage reaches the negative value of upper limit charging voltage within the testing duration. The voltage is maintained at the negative value of the upper limit charging voltage by reducing the current for the remainder of the testing duration		N/A
	- The discharge voltage does not reach the negative value of upper limit charging voltage within the testing duration. The test is terminated at the end of the testing duration		P
	Results: no fire, no explosion ..... :	(See appended table 7.3.7)	P
7.3.8	Mechanical tests (batteries)	Cell only	N/A
7.3.8.1	Vibration	Cell only	N/A
	Results: no fire, no explosion, no rupture, no leakage or venting. ..... :	See appended table 7.3.8.1)	N/A
7.3.8.2	Mechanical shock	Cell only	N/A
	Results: no leakage, no venting, no rupture, no explosion and no fire ..... :	(See appended table 7.3.8.2)	N/A
7.3.9	Design evaluation – Forced internal short-circuit (cells)	Tested complied.	P
	The cells complied with national requirement for ..... :	France, Japan, Korea, Switzerland	—
	The pressing was stopped upon:		P
	- A voltage drop of 50 mV has been detected; or		N/A
	- The pressing force of 800 N (cylindrical cells) or 400 N (prismatic cells) has been reached	800N for cylindrical cells.	P
	Results: no fire ..... :	(See appended table 7.3.9)	P
8	**INFORMATION FOR SAFETY**		P
8.1	**General**		P
	Manufacturers of secondary cells provides information about current, voltage and temperature limits of their products	Information for safety mentioned in manufacturer's specifications.	P
	Manufacturers of batteries provides information regarding how to minimize and mitigate hazards to equipment manufacturers or end-users	Cell only.	N/A
	Systems analyses are performed by device manufacturers to ensure that a particular battery design prevents hazards from occurring during use of a product		N/A
	As appropriate, any information relating to hazard avoidance resulting from a system analysis is provided to the end user		N/A
8.2	**Small cell and battery safety information**	Not small cell.	N/A

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	The following warning language is to be provided with the information packaged with the small cells and batteries or equipment using them:		N/A
	- Keep small cells and batteries which are considered swallowable out of the reach of children		N/A
	- Swallowing may lead to burns, perforation of soft tissue, and death. Severe burns can occur within 2 h of ingestion		N/A
	- In case of ingestion of a cell or battery, seek medical assistance promptly		N/A
9	**MARKING**		P
9.1	**Cell marking**	The cell is marked in accordance with IEC 61960, also see page 5 and page 6.	P
	Cells are marked as specified in IEC 61960, except coin cells		P
	Coin cells whose external surface area is too small to accommodate the markings on the cells show the designation and polarity		N/A
	By agreement between the cell manufacturer and the battery and/or end product manufacturer, component cells used in the manufacture of a battery need not be marked		N/A
9.2	**Battery marking**	Cell only.	N/A
	Batteries are marked as specified in IEC 61960, except for coin batteries		N/A
	Coin batteries whose external surface area is too small to accommodate the markings on the batteries show the designation and polarity		N/A
	Batteries are marked with an appropriate caution statement		N/A
	- Terminals have clear polarity marking on the external surface of the battery, or		N/A
	- Not be marked with polarity markings if the design of the external connector prevents reverse polarity connections		N/A
9.3	**Caution for ingestion of small cells and batteries**	Not small cell.	N/A
	Coin cells and batteries identified as small batteries include a caution statement regarding the hazards of ingestion in accordance with 8.2		N/A
	Small cells and batteries are intended for direct sale in consumer-replaceable applications, caution for ingestion is given on the immediate package		N/A

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
9.4	**Other information**		P
	The following information are marked on or supplied with the battery:		P
	- Storage and disposal instructions	Information for storage and disposal instructions mentioned in manufacturer's specifications.	P
	- Recommended charging instructions	Information for recommended charging instructions mentioned in manufacturer's specifications.	P
10	**PACKAGING AND TRANSPORT**		P
	Packaging for coin cells are not be small enough to fit within the limits of the ingestion gauge of Figure 3	Not coin cells.	N/A
ANNEX A	**CHARGING AND DISCHARGING RANGE OF SECONDARY LITHIUM ION CELLS FOR SAFE USE**		P
A.1	**General**		P
A.2	**Safety of lithium ion secondary battery**	Complied.	P
A.3	**Consideration on charging voltage**	Complied.	P
A.3.1	General	Charging voltage is 4.25V	P
A.3.2	Upper limit charging voltage	4.25V	P
A.3.2.1	General		P
A.3.2.2	Explanation of safety viewpoint		N/A
A.3.2.3	Safety requirements, when different upper limit charging voltage is applied	4.25V applied	N/A
A.4	**Consideration of temperature and charging current**		P
A.4.1	General		P
A.4.2	Recommended temperature range	See A.4.2.2.	P
A.4.2.1	General		P
A.4.2.2	Safety consideration when a different recommended temperature range is applied	Charging temperature declared by client is: 10-45°C	N/A
A.4.3	High temperature range	Not higher than the temperature range specific in this standard.	N/A
A.4.3.1	General		N/A
A.4.3.2	Explanation of safety viewpoint		N/A
A.4.3.3	Safety considerations when specifying charging conditions in the high temperature range		N/A

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
A.4.3.4	Safety considerations when specifying a new upper limit in the high temperature range		N/A
A.4.4	Low temperature range	Not lower than the temperature range specified in this standard.	N/A
A.4.4.1	General		N/A
A.4.4.2	Explanation of safety viewpoint		N/A
A.4.4.3	Safety considerations, when specifying charging conditions in the low temperature range		N/A
A.4.4.4	Safety considerations when specifying a new lower limit in the low temperature range		N/A
A.4.5	Scope of the application of charging current		P
A.4.6	Consideration of discharge		P
A.4.6.1	General		P
A.4.6.2	Final discharge voltage and explanation of safety viewpoint	Cell specified final voltage 2.75V.	P
A.4.6.3	Discharge current and temperature range		P
A.4.6.4	Scope of application of the discharging current		P
A.5	**Sample preparation**		P
A.5.1	General		P
A.5.2	Insertion procedure for nickel particle to generate internal short		P
A.5.3	Disassembly of charged cell		P
A.5.4	Shape of nickel particle		P
A.5.5	Insertion of nickel particle in cylindrical cell		P
A.5.5.1	Insertion of nickel particle in winding core		P
A.5.5.2	Marking the position of the nickel particle on both ends of the winding core of the separator		P
A.5.6	Insertion of nickel particle in prismatic cell		N/A
A.6	**Experimental procedure of the forced internal short-circuit test**		P
A.6.1	Material and tools for preparation of nickel particle		P
A.6.2	Example of a nickel particle preparation procedure		P
A.6.3	Positioning (or placement) of a nickel particle		P
A.6.4	Damaged separator precaution		P
A.6.5	Caution for rewinding separator and electrode		P
A.6.6	Insulation film for preventing short-circuit		P
A.6.7	Caution when disassembling a cell		P
A.6.8	Protective equipment for safety		P

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
A.6.9	Caution in the case of fire during disassembling		P
A.6.10	Caution for the disassembling process and pressing the electrode core		P
A.6.11	Recommended specifications for the pressing device		P
ANNEX B	**RECOMMENDATIONS TO EQUIPMENT MANUFACTURERS AND BATTERY ASSEMBLERS**		N/A
ANNEX C	**RECOMMENDATIONS TO THE END-USERS**		N/A
ANNEX D	**MEASUREMENT OF THE INTERNAL AC RESISTANCE FOR COIN CELLS**		N/A
D.1	**General**	Not coin cells.	N/A
D.2	**Method**		N/A
	A sample size of three coin cells is required for this measurement		N/A
	Coin cells with an internal resistance greater than 3 Ω require no further testing .....:	(See appended table D.2)	N/A
	Coin cells with an internal resistance less than or equal to 3 Ω are subjected to the testing according to Clause 6 and Table 1		N/A
ANNEX E	**PACKAGING AND TRANSPORT**		N/A
ANNEX F	**COMPONENT STANDARDS REFERENCES**		N/A

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict

7.2.1	TABLE: Continuous charging at constant voltage (cells)			P
Sample No.	**Recommended charging voltage Vc (Vdc)**	**Recommended charging current I_{rec} (A)**	**OCV before test (Vdc)**	**Results**
Cell 1#[A]	4.20	1.0	4.18	P
Cell 2#[A]	4.20	1.0	4.19	P
Cell 3#[A]	4.20	1.0	4.18	P
Cell 4#[A]	4.20	1.0	4.18	P
Cell 5#[A]	4.20	1.0	4.18	P
Cell 54#[B]	4.20	1.1	4.18	P
Cell 55#[B]	4.20	1.1	4.18	P
Cell 56#[B]	4.20	1.1	4.18	P
Cell 57#[B]	4.20	1.1	4.18	P
Cell 58#[B]	4.20	1.1	4.19	P
Cell 107#[C]	4.20	1.3	4.18	P
Cell 108#[C]	4.20	1.3	4.18	P
Cell 109#[C]	4.20	1.3	4.19	P
Cell 110#[C]	4.20	1.3	4.19	P
Cell 111#[C]	4.20	1.3	4.19	P

Supplementary information:
- No fire or explosion
- No leakage
- Others (please explain)

Remark:
A: 18650S20
B: 18650S22
C: 18650S26

7.3.1	TABLE: External short circuit (cell)				P
Sample No.	**Ambient (°C)**	**OCV at start of test (Vdc)**	**Resistance of circuit (mΩ)**	**Maximum case temperature ~~rise ΔT~~, °C**	**Results**
Samples charged at charging temperature upper limit (45°C)					
Cell 6#[A]	56.4	4.21	82.3	75.7	P
Cell 7#[A]	56.4	4.20	83.5	76.7	P
Cell 8#[A]	56.4	4.20	77.5	75.3	P
Cell 9#[A]	56.4	4.21	83.4	76.6	P
Cell 10#[A]	56.4	4.20	80.9	74.9	P

IEC 62133-2					
Clause	Requirement + Test		Result - Remark		Verdict
Cell 59#[B]	57.2	4.20	77.1	76.0	P
Cell 60#[B]	57.2	4.20	78.4	74.2	P
Cell 61#[B]	57.2	4.21	79.5	78.3	P
Cell 62#[B]	57.2	4.20	81.4	78.2	P
Cell 63#[B]	57.2	4.20	79.2	72.4	P
Cell 112#[B]	57.3	4.20	78.6	77.1	P
Cell 113#[B]	57.3	4.20	82.4	80.3	P
Cell 114#[B]	57.3	4.20	75.0	77.5	P
Cell 115#[B]	57.3	4.20	77.2	75.5	P
Cell 116#[B]	57.3	4.20	78.6	75.9	P
Samples charged at charging temperature lower limit (10°C)					
Cell 11#[A]	55.9	4.08	81.5	73.5	P
Cell 12#[A]	55.9	4.09	81.6	74.4	P
Cell 13#[A]	55.9	4.08	81.8	73.9	P
Cell 14#[A]	55.9	4.10	76.7	76.5	P
Cell 15#[A]	55.9	4.08	84.0	74.7	P
Cell 64#[B]	57.3	4.11	79.6	76.5	P
Cell 65#[B]	57.3	4.10	78.6	78.2	P
Cell 66#[B]	57.3	4.11	80.3	78.6	P
Cell 67#[B]	57.3	4.11	79.0	77.5	P
Cell 68#[B]	57.3	4.09	81.1	79.2	P
Cell 117#[B]	57.3	4.10	81.4	77.1	P
Cell 118#[B]	57.3	4.10	77.9	79.9	P
Cell 119#[B]	57.3	4.11	79.3	77.7	P
Cell 120#[B]	57.3	4.10	78.7	75.9	P
Cell 121#[B]	57.3	4.11	81.6	79.0	P

Supplementary information:

- No fire or explosion
- Others (please explain)

Remark:

A: 18650S20

B: 18650S22

C: 18650S26

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict

7.3.2	TABLE: External short circuit (battery)					N/A
Sample No.	**Ambient T (°C)**	**OCV before test (Vdc)**	**Resistance of circuit (mΩ)**	**Maximum case temperature ~~rise~~ ΔT, °C**	**Component single fault condition**	**Results**
Supplementary information:						

7.3.5	TABLE: Crush (cells)			P
Sample No.	**OCV before test (Vdc)**	**OCV at removal of crushing force (Vdc)**	**Maximum force applied to the cell during crush (kN)**	**Results**
Samples charged at charging temperature upper limit (45°C)				
Cell 29#[A]	4.21	4.20	13.0	P
Cell 30#[A]	4.20	4.20	13.0	P
Cell 31#[A]	4.21	4.21	13.1	P
Cell 32#[A]	4.21	4.20	13.0	P
Cell 33#[A]	4.20	4.20	13.1	P
Cell 82#[B]	4.20	4.20	13.1	P
Cell 83#[B]	4.21	4.20	13.1	P
Cell 84#[B]	4.20	4.20	13.1	P
Cell 85#[B]	4.20	4.20	13.1	P
Cell 86#[B]	4.20	4.20	13.1	P
Cell 135#[B]	4.20	4.20	13.1	P
Cell 136#[B]	4.21	4.21	13.1	P
Cell 137#[B]	4.20	4.20	13.1	P
Cell 138#[B]	4.20	4.20	13.1	P
Cell 139#[B]	4.21	4.21	13.1	P
Samples charged at charging temperature lower limit (10°C)				
Cell 34#[A]	4.09	4.09	13.0	P
Cell 35#[A]	4.10	4.09	13.1	P
Cell 36#[A]	4.10	4.10	13.0	P

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict

Cell 37#[A]	4.08	4.08	13.1	P
Cell 38#[A]	4.09	4.08	13.0	P
Cell 87#[B]	4.11	4.11	13.1	P
Cell 88#[B]	4.11	4.11	13.1	P
Cell 89#[B]	4.10	4.10	13.1	P
Cell 90#[B]	4.11	4.10	13.1	P
Cell 91#[B]	4.10	4.10	13.1	P
Cell 140#[B]	4.20	4.20	13.1	P
Cell 141#[B]	4.21	4.21	13.1	P
Cell 142#[B]	4.20	4.20	13.1	P
Cell 143#[B]	4.20	4.20	13.1	P
Cell 144#[B]	4.21	4.21	13.1	P

Supplementary information:

- No fire or explosion
- Others (please explain)

Remark:

A: 18650S20

B: 18650S22

C: 18650S26

7.3.6	**TABLE: Over-charging of battery**			**N/A**
Constant charging current (A) ..... :				**—**
Supply voltage (Vdc) ..... :				**—**
Sample No.	**OCV before charging (Vdc)**	**Total charging time (minute)**	**Maximum outer case temperature (°C)**	**Results**

Supplementary information:

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict

7.3.7	TABLE: Forced discharge (cells)			P
Sample No.	**OCV before application of reverse charge (Vdc)**	**Measured reverse charge I_t (A)**	**Lower limit discharge voltage (Vdc)**	**Results**
Cell 39#[A]	3.15	2.0	2.75	P
Cell 40#[A]	3.10	2.0	2.75	P
Cell 41#[A]	3.17	2.0	2.75	P
Cell 42#[A]	3.03	2.0	2.75	P
Cell 43#[A]	3.06	2.0	2.75	P
Cell 92#[B]	3.07	2.2	2.75	P
Cell 93#[B]	3.08	2.2	2.75	P
Cell 94#[B]	3.09	2.2	2.75	P
Cell 95#[B]	3.08	2.2	2.75	P
Cell 96#[B]	3.08	2.2	2.75	P
Cell 145#[B]	3.07	2.6	2.75	P
Cell 146#[B]	3.08	2.6	2.75	P
Cell 147#[B]	3.09	2.6	2.75	P
Cell 148#[B]	3.08	2.6	2.75	P
Cell 149#[B]	3.08	2.6	2.75	P

Supplementary information:

- No fire or explosion
- Others (please explain)

Remark:

A: 18650S20

B: 18650S22

C: 18650S26

7.3.8.1	TABLE: Vibration				N/A
Sample No.	**OCV before test (Vdc)**	**OCV after test (Vdc)**	**Mass before test (g)**	**Mass after test (g)**	**Results**

Supplementary information:

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict

7.3.8.2	TABLE: Mechanical shock				N/A
Sample No.	**OCV before test (Vdc)**	**OCV after test (Vdc)**	**Mass before test (g)**	**Mass after test (g)**	**Results**
Supplementary information:					

7.3.9	TABLE: Forced internal short circuit (cells)				P
Sample No.	**Chamber ambient T (°C)**	**OCV before test (Vdc)**	**Particle location [1)]**	**Maximum applied pressure (N)**	**Results**
Samples charged at charging temperature upper limit (45°C)					
Cell 44#[A]	45	4.20	1	800	P
Cell 45#[A]	45	4.20	1	800	P
Cell 46#[A]	45	4.20	1	800	P
Cell 47#[A]	45	4.20	1*	800	P
Cell 48#[A]	45	4.20	1*	800	P
Cell 97#[B]	45	4.20	1	800	P
Cell 98#[B]	45	4.21	1	800	P
Cell 99#[B]	45	4.20	1	800	P
Cell 100#[B]	45	4.20	1*	800	P
Cell 101#[B]	45	4.21	1*	800	P
Cell 150#[B]	45	4.20	1	800	P
Cell 151#[B]	45	4.20	1	800	P
Cell 152#[B]	45	4.19	1	800	P
Cell 153#[B]	45	4.20	1*	800	P
Cell 154#[B]	45	4.20	1*	800	P
Samples charged at charging temperature lower limit (10°C)					
Cell 49#[A]	10	4.10	1	800	P
Cell 50#[A]	10	4.09	1	800	P
Cell 51#[A]	10	4.09	1	800	P
Cell 52#[A]	10	4.08	1*	800	P
Cell 53#[A]	10	4.08	1*	800	P
Cell 102#[B]	10	4.10	1	800	P

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict

Cell 103#[B]	10	4.11	1	800	P
Cell 104#[B]	10	4.11	1	800	P
Cell 105#[B]	10	4.10	1*	800	P
Cell 106#[B]	10	4.11	1*	800	P
Cell 155#[B]	10	4.10	1	800	P
Cell 156#[B]	10	4.10	1	800	P
Cell 157#[B]	10	4.10	1	800	P
Cell 158#[B]	10	4.11	1*	800	P
Cell 159#[B]	10	4.11	1*	800	P

Supplementary information:

[1)] Identify one of the following:

1: Nickel particle inserted between positive and negative (active material) coated area.

2: Nickel particle inserted between positive aluminium foil and negative active material coated area.

*Remark: No location 2 exists.

A: 18650S20

B: 18650S22

C: 18650S26

- No fire

- Others (please explain)

D.2	TABLE: Internal AC resistance for coin cells			N/A
Sample no.	**Ambient T (°C)**	**Store time (h)**	**Resistance Rac (Ω)**	**Results [1)]**

Supplementary information:

[1)] Coin cells with an internal resistance less than or equal to 3 Ω, see test result on corresponding tables according to Clause 6 and Table 1.

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict

	TABLE: Critical components information				**P**
Object / part No.	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity[1)]**
Cell		18650S20, 18650S22, 18650S25, 18650S26	3.7V, 2000mAh, 7.4Wh 3.7V, 2200mAh, 8.14Wh 3.7V, 2500mAh, 9.25Wh 3.7V, 2600mAh, 9.62Wh	IEC 62133-2:2017+A1	Tested with appliance
-Electrolyte	Hubei Jiubang Co., Ltd.	NP601E	$LiPF_6$+DMC+EMC +EC	--	--
-Separator	Fujian Xucheng Technology Co., Ltd.	20μm*61.0mm	PP, Thickness: 0.02mm, Width: 61.0mm, Shut down temperature: 145°C, Dimensions: 20μm	--	--
-Positive electrode	Sichuan Keneng Co., Ltd.	K100	$Li(Ni_{0.5}Co_{0.2}Mn_{0.3})O_2$, Ni: 50%, Co: 20%, Mn: 30%, D_{50}: 12.29μm	--	--
-Negative electrode	Shenzhen Xin mao Co., Ltd.	X20B	Graphite, Thickness: 0.601mm, Width: 59mm	--	--
-PTC	Huizhou Juding Electronics Co., Ltd	JD-D1	Ihold: 3.5A, Itrip: 7A, Imax: 40A, VD: 15VDC, T_C: 85°C	--	--

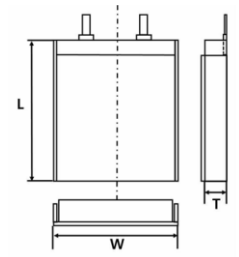
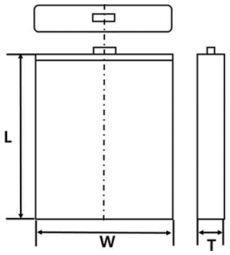
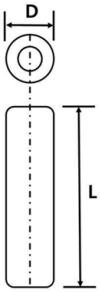
Supplementary information:

[1)] Provided evidence ensures the agreed level of compliance. See OD-CB2039.

-- End of Report --

IEC62133_2A ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT **IEC 62133-2** **(Republic of Korea) NATIONAL DIFFERENCES** (Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems)			
Differences according to ..... : National standard KC62133-2(2023-03)			
TRF template used: ..... : IECEE OD-2023-F3, Ed. 1.1			
Attachment Form No. ..... : KR_ND_IEC62133_2A **Attachment Originator .....** : KTR **Master Attachment**..... : Dated 2024-03-08			
	National Differences		P
7.3.6	**Over-charging of battery**		N/A
(Revision)	***[Add the bolded text]*** b) Test The test shall be carried out in an ambient temperature of 20 °C ± 5 °C. Each test battery shall be discharged at a constant current of 0,2 It A, to a final discharge voltage specified by the manufacturer. Sample batteries shall then be charged at a constant current of 2,0 It A, using a supply voltage which is: • 1,4 times the upper limit charging voltage presented in Table A.1 (but not to exceed 6,0 V) for single cell/cell block batteries or • 1,2 times the upper limit charging voltage presented in Table A.1 per cell for series connected multi-cell batteries, and • sufficient to maintain a current of 2,0 It A throughout the duration of the test or until the supply voltage is reached. **• In case the charging voltage specified by the manufacturer is higher than the overcharge test voltage, the maximum charging voltage specified by manufacturer should be applied with 2.0 ItA,** **(e.g., quick charging power bank, etc.)**		N/A

IEC62133_2A ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	[Replace to the following statement] c) Acceptance criteria Overcharging exceeding to the limits specified by the manufacturer should not result in fire or explosion.		N/A
Annex G	**Definition for shape and materials of outer case for cell**		—
(Addition)	G.1 General Annex G provides definitions for shape and materials of outer case for cell G.2 Shape of outer case for cell G 2.1 Cylindrical cell Cell with a cylindrical shape in which the overall height is equal to or greater than diameter. G 2.2 Prismatic cell Cell having the shape of a parallelepiped whose faces are rectangular G.3 Materials of outer case for cell G.3.1 Soft case Non-metallic outer case or container for cell G.3.2 Hard case Metallic outer case or container for cell.	(Shape of outer cases) ☒ Cylindrical ☐ Prismatic (Materials of outer cases) ☒ Hard ☐ Soft	—
Annex H	**Calculation method of the volumetric energy density for cell**		—
(Addition)	Annex H provide a calculation method of the volumetric energy density for cell in use of smart phone, tablet, notebook. H.1 General Unless otherwise stated in the Annex E, the dimensions for calculation are based on these for cell before shipment and the volumetric energy density shall be calculated with a maximum values specified by manufacturer. If the specification for cell can't be provided a dimension for calculation, the manufacturer's other documentation shall be provided to demonstrate compliance for its calculation.	420.3Wh / L (Model: 18650S20) 462.3Wh / L (Model: 18650S22) 525.4Wh / L (Model: 18650S25) 546.4Wh / L (Model: 18650S26)	—

IEC62133_2A ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	H.2 Calculation Method  L : Length (max.) of cell (including terrace) W : Width (max.) of cell T : Thickness (max.) when shipping charge (For reference, Please Exclude the dimension of any tape that Is attached to cell) $Volumetric\ energy\ density\ (Wh/L) = \frac{Nominal\ voltage\ (V) \times Rated\ capacity\ (Ah)}{Length\ (L) \times Width\ (W)\ \times Thickness\ (T)}$ [H.1 – Prismatic cell using soft case]  L : Length (max.) of cell W : Width (max.) of cell T : Thickness when shipping charge (For reference, Please Exclude the dimension of any tape that Is attached to cell) $Volumetric\ energy\ density\ (Wh/L) = \frac{Nominal\ voltage\ (V) \times Rated\ capacity\ (Ah)}{Length\ (L) \times Width\ (W)\ \times Thickness\ (T)}$ [H.2 – Prismatic cell using hard case]  D : Diameter (max.) of cell L : Length (max.) of cell (According to shape of cell at shipping, The dimension of tube for cell may be included In overall dimension of cell) $Volumetric\ energy\ density\ (Wh/L) = \frac{Nominal\ voltage\ (V) \times Rated\ capacity\ (Ah)}{3.14159\ \times \frac{Diameter\ (D)^2}{4} \times Length(L)}$ [H.3 – Cylindrical cell using hard case]		—

Attachment 2 Photo Documentation

Product: Lithium-ion Rechargeable Cell

Type Designation: 18650S20, 18650S22, 18650S25, 18650S26

Figure 1 Front view of cell (18650S20)

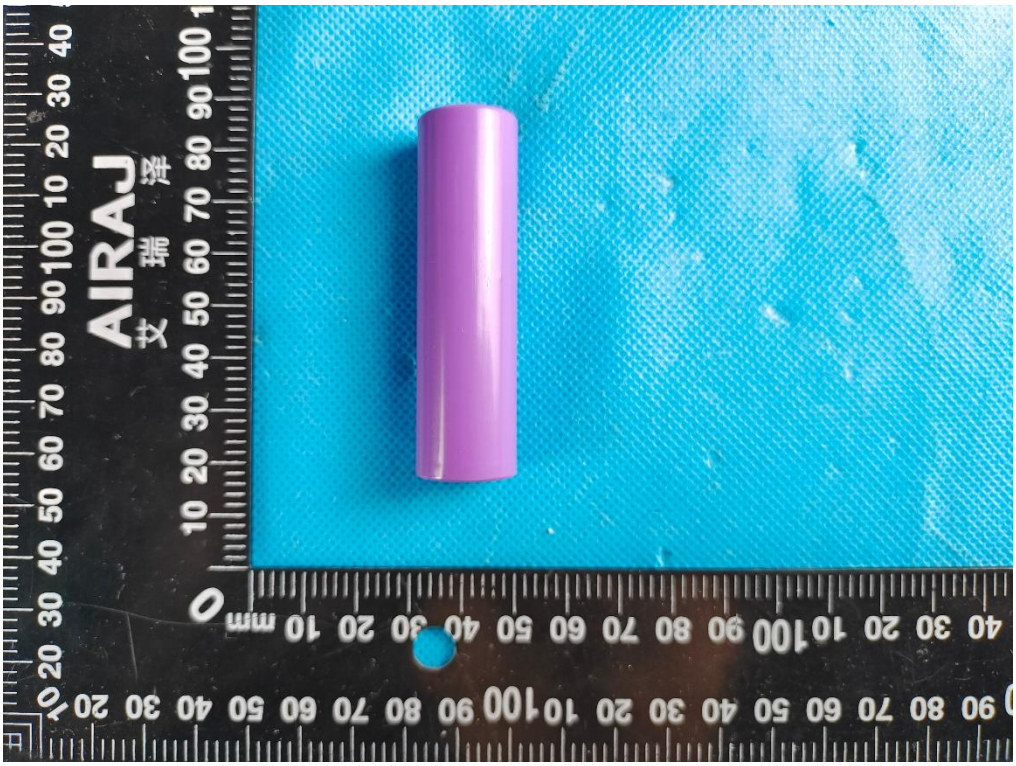


Figure 2 Back view of cell (18650S20)

Product: Lithium-ion Rechargeable Cell

Type Designation: 18650S20, 18650S22, 18650S25, 18650S26

Figure 3 Front view of cell (18650S22)

Figure 4 Back view of cell (18650S22)

Product: Lithium-ion Rechargeable Cell

Type Designation: 18650S20, 18650S22, 18650S25, 18650S26

Figure 5 Front view of cell (18650S25)

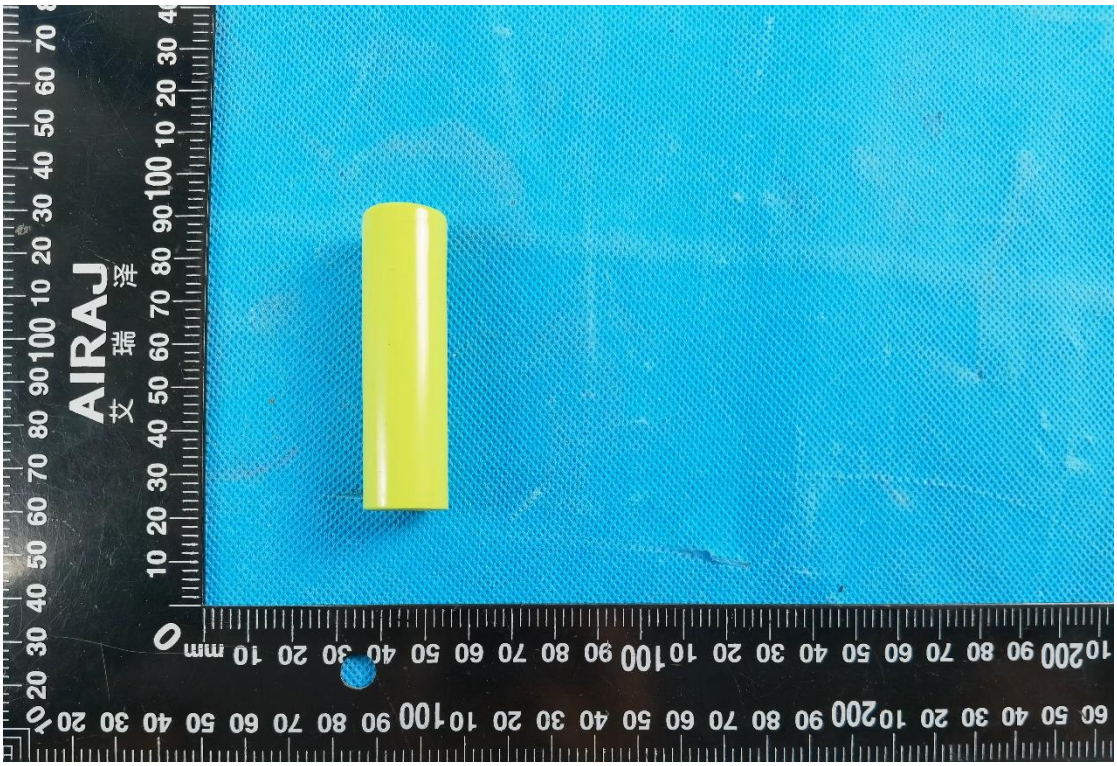


Figure 6 Back view of cell (18650S25)

Product: Lithium-ion Rechargeable Cell

Type Designation: 18650S20, 18650S22, 18650S25, 18650S26

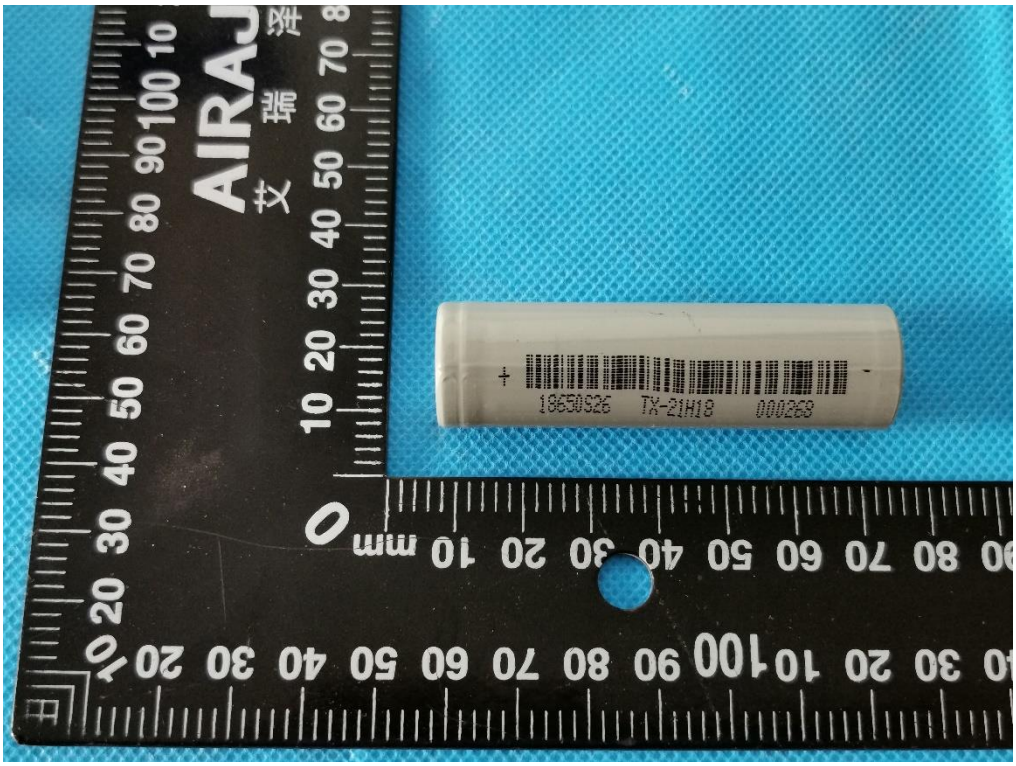


Figure 7 Front view of cell (18650S26)

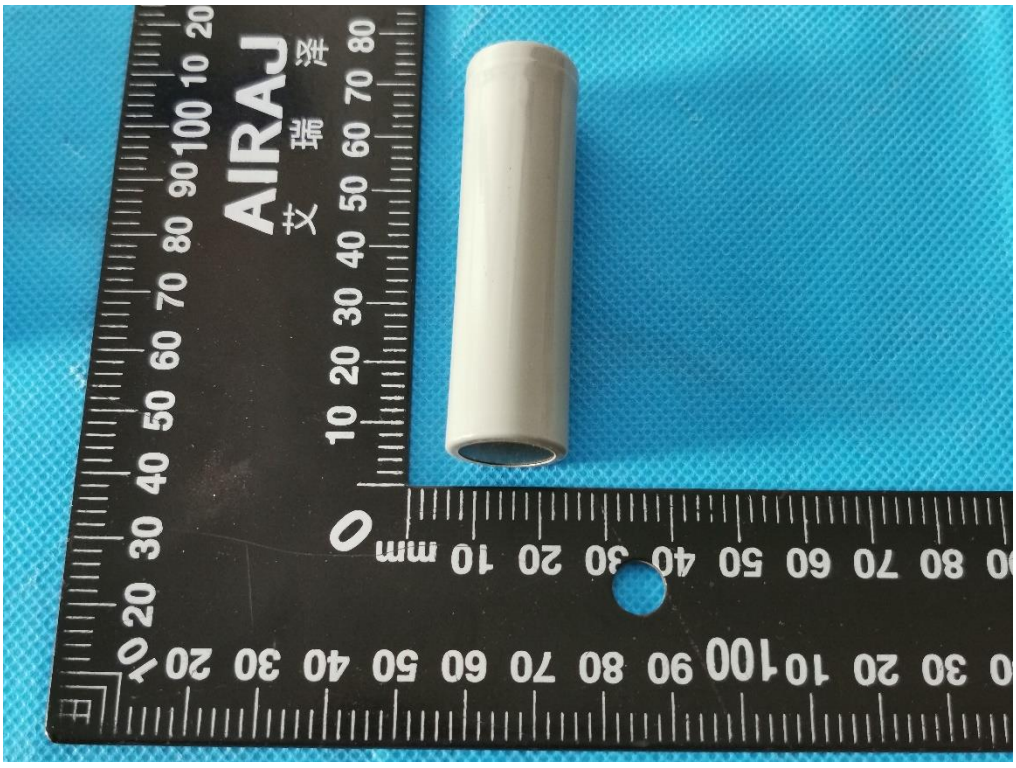


Figure 8 Back view of cell (18650S26)