Test Report

Report No. : TCT241216C007002 Date : Dec. 18, 2024 Page No.: 1 of 5

Applicant:

Address:

The following sample was submitted and identified by/on behalf of the client as:

Sample Name:	Li-ion Battery
Model No.:	YQ 352224
Client Reference Information:	Other model please see annex
Sample Received Date:	2024.12.16
Testing Period:	2024.12.16—2024.12.18
Test Method:	Please refer to the following page(s).
Test Result(s):	Please refer to the following page(s).

Test Requested	Conclusion
As specified by client, to determine the Lead (Pb), Cadmium (Cd), Mercury (Hg) contents of the submitted sample(s) in accordance with Regulation (EU) 2023/1542 Annex I.	Pass

Checked by

Evan Fang

Approved by

Ryan Zhang

Technical Manager

Annex

Model:

YQ 103450, YQ 301220, YQ 301924, YQ 302125, YQ 318790, YQ 322325, YQ 328585, YQ 341423, YQ 346686, YQ 347387, YQ 351020, YQ 351325, YQ 351526, YQ 351530, YQ 352020, YQ 352025, YQ 352122, YQ 352224, YQ 352427, YQ 352528, YQ 357095, YQ 361525, YQ 361825, YQ 362025, YQ 381620, YQ 381728, YQ 382127, YQ 382224, YQ 391720, YQ 392121, YQ 401220, YQ 401228, YQ 401522, YQ 401525, YQ 401532, YQ 401727, YQ 401828, YQ 401830, YQ 401930, YQ 401932, YQ 402029, YQ 402030, YQ 402031, YQ 402032, YQ 402121, YQ 402224, YQ 402228, YQ 402525, YQ 402628, YQ 402630, YQ 411626, YQ 411830, YQ 412121, YQ 412226, YQ 422024, YQ 422228, YQ 431630, YQ 431830, YQ 432632, YQ 436587, YQ 451525, YQ 451721, YQ 451828, YQ 452027, YQ 452030, YQ 452226, YQ 452228, YQ 461925, YQ 472025, YQ 481531, YQ 481633, YQ 482627, YQ 501628, YQ 501726, YQ 501820, YQ 501822, YQ 501921, YQ 501928, YQ 502020, YQ 502022, YQ 502023, YQ 502024, YQ 502025, YQ 502026, YQ 502228, YQ 502540, YQ 503450, YQ 521826, YQ 522021, YQ 522022, YQ 522030, YQ 522119, YQ 531532, YQ 531614, YQ 531624, YQ 531725, YQ 531931, YQ 532223, YQ 542429, YQ 551530, YQ 551822, YQ 551824, YQ 551826, YQ 551830, YQ 551926, YQ 552028, YQ 552028, YQ 552123, YQ 552125, YQ 552323, YQ 552429, YQ 552628, YQ 572728, YQ 581729, YQ 582020, YQ 582023, YQ 582224, YQ 582528, YQ 582830, YQ 601624, YQ 601718, YQ 601720, YQ 601726, YQ 601730, YQ 601821, YQ 602020, YQ 602121, YQ 602128, YQ 602223, YQ 602830, YQ 602831, YQ 608497, YQ 622527, YQ 622933, YQ 651122, YQ 651730, YQ 651828, YQ 651830, YQ 652022, YQ 652025, YQ 652344, YQ 663033, YQ 695776, YQ 701335, YQ 701929, YQ 702030, YQ 702424, YQ 702526, YQ 752630, YQ 752730, YQ 782630, YQ 803030, YQ 882630, YQ 951635, YQ 1250100, YQ 2795100, YQ 2880159, YQ 30100120, YQ 30100136, YQ 32120124, YQ 36132115, YQ 302020, YQ 437090, YQ 803050, YQ 551626, YQ 632528, YQ 601820, YQ 851918, YQ 701529, YQ 752126, YQ 601822, YQ 402031, YQ 402032, YQ 651620

Test Report

Test Results:

Lead, Cadmium and Mercury Content(s)

Test Method: With reference to IEC62321-4:2013+AMD1:2017, IEC 62321-5:2013,

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Items	Unit	MDL	Labelling Requirement#	Limit	Result(s)
Lead (Pb)	%	0.0010	>0.004	0.01*	N.D.
Cadmium (Cd)	%	0.0010	>0.002	0.002**	N.D.
Mercury (Hg)	%	0.0001	-	0.0005	N.D.

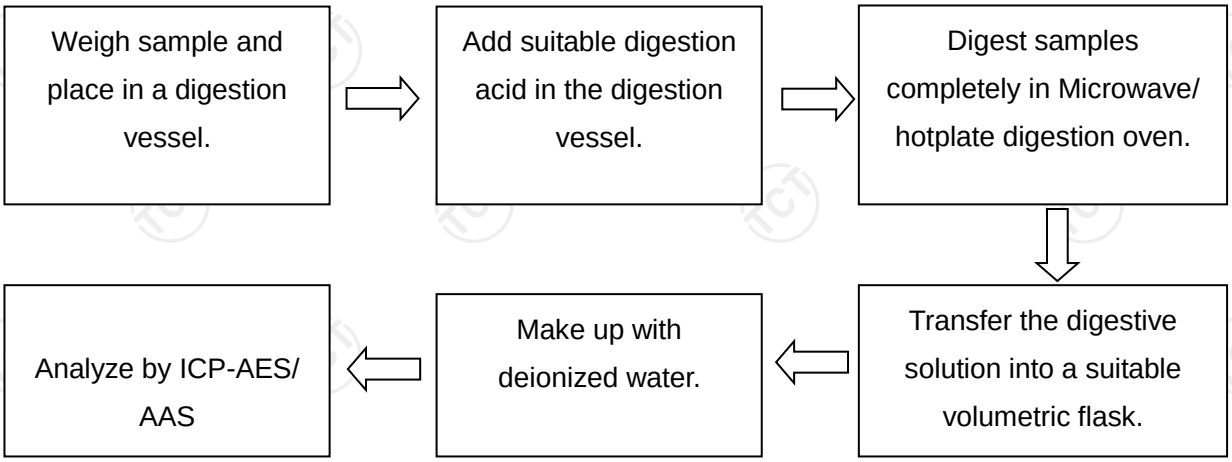
Specimen Description：

Battery

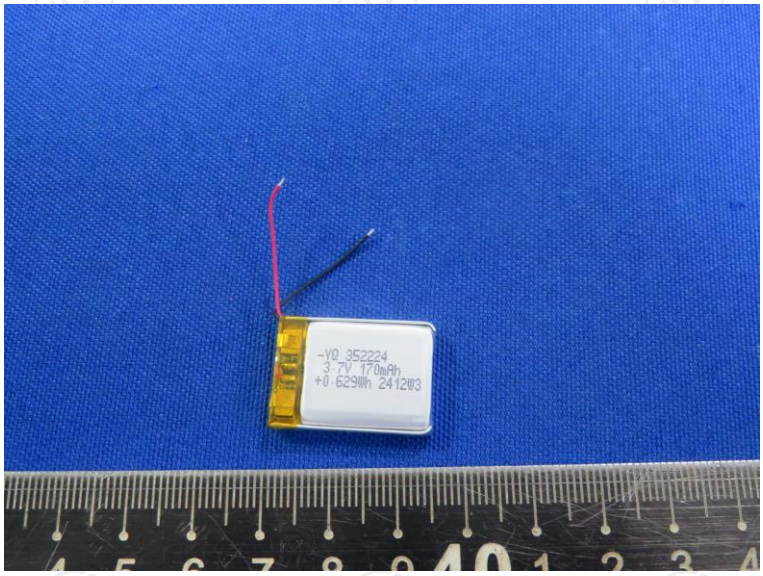
Note :
- MDL = Method Detection Limit
- N.D.= Not Detected(<MDL)
- 1mg/kg= 1ppm = 0.0001%
- “-”=Not Regulated
- * = Portable batteries, whether or not incorporated into appliances, shall not contain more than 0.01 % of lead (expressed as lead metal) by weight; The restriction shall not apply to portable zinc-air button cells until 18 August 2028.
  ** = Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,002 % of cadmium (expressed as cadmium metal) by weight.)
- # = According to Regulation (EU) 2023/1542 Article 13, Batteries containing more than 0,002 % cadmium or more than 0,004 % lead, shall be marked with the chemical symbol for the metal concerned: Cd or Pb.
- According to Regulation (EU) 2023/1542 annex VI, all batteries should be marked with symbol for separate collection of batteries.

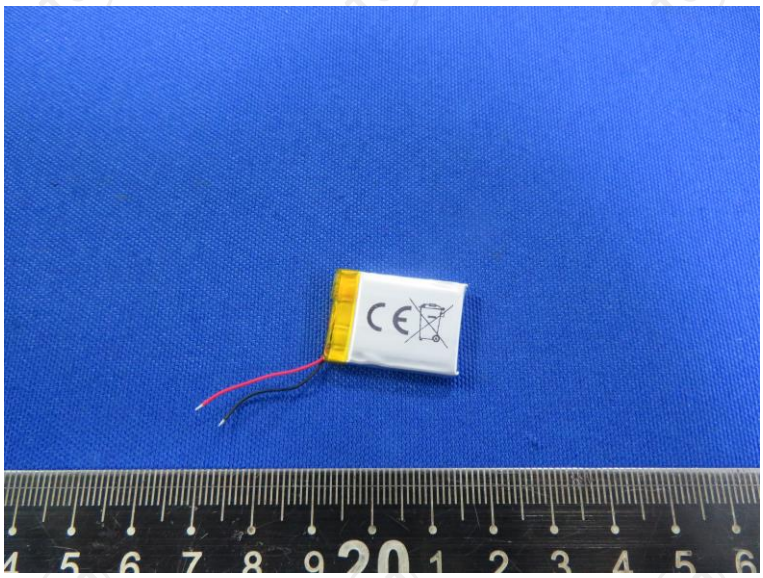
Remark:
- Result(s) shown is/are of total weight of the battery sample.

Test Chart


Weigh sample and place in a digestion vessel.
Add suitable digestion acid in the digestion vessel.
Digest samples completely in Microwave/ hotplate digestion oven.
Transfer the digestive solution into a suitable volumetric flask.
Make up with deionized water.
Analyze by ICP-AES/ AAS

Photo(s) of the sample(s)





***** End of Report *****

Remark：This report is considered invalidated without the Special Seal for Inspection of the TCT. This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of TCT, this test report shall not be copied except in full and published as advertisement.

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 ..... :	TCT230911B031
Date of issue ..... :	2024-09-22
Total number of pages ..... :	26 Pages.
Tested by (name + signature) ..... :	May Hou
Inspected by (name + signature) ..... :	Aiden Liu
Approved by (name + signature) ..... :	Tomsin

Testing laboratory ..... :	Shenzhen TCT Testing Technology Co., Ltd.
Address ..... :	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Testing location ..... :	As above

Applicant's name ..... :	
Address ..... :	
Manufacturer's name ..... :	
Address ..... :	

Test specification:

Standard ..... :	IEC 62133-2:2017, IEC 62133-2:2017/AMD1:2021
Test procedure ..... :	Type approved
Test result ..... :	Pass
Non-standard test method ..... :	N/A

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 Shenzhen TCT Testing Technology Co., Ltd.

Test item description ..... :	Polymer Lithium Battery
Trade Mark ..... :	N/A
Model/type reference ..... :	YQ 551926
Ratings ..... :	3.8V, 300mAh, 1.14Wh

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

Attachment 1: Critical components information (page 22)

Attachment 2: Photo documentation (page 23-26)

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 (for Cells and Batteries); cl.7.2.1 Continuous charging at constant voltage (Cells); cl.7.3.1 External short circuit (Cells); cl.7.3.2 External short circuit (Batteries); cl.7.3.3 Free fall (Cells and Batteries); cl.7.3.4 Thermal abuse (Cells); cl.7.3.5 Crush (Cells); cl.7.3.6 Over-charging of battery; cl.7.3.7 Forced discharge (Cells); cl.7.3.8 Mechanical tests (Batteries); cl.7.3.9 Design evaluation – Forced internal short circuit (Cells) The electrolyte type of this cell doesn't belong to polymer, and the addition test cl.7.3.9 was carried out to evaluate the cell. Tests are made with the number of cells and batteries specified in IEC 62133-2:2017, IEC 62133-2:2017/AMD1:2021 Table 1.	**Shenzhen TCT Testing Technology Co., Ltd.** 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

☒ **The product fulfils the requirements of EN 62133-2:2017, EN 62133-2:2017/A1:2021**

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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: N/A (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

- (Black) Polymer Lithium Battery
Model: YQ 551926 1ICP6/20/27
3.8V, 300mAh, 1.14Wh

+ (Red) Date: YYMM Made in China

WARNING: Risk of Fire and Burns. Do Not Open, Crush, Heat Above 60°C/140°F or Incinerate. Do not short circuit. If bulges severely, discontinue use. Follow Manufacturer's Instructions.

Date code: YYMM
YY=Year, MM= Month.

Information for safety mentioned on equipment's package:
Warning language
1. Keep small cells which are considered swallowable out of the reach of children.
2. Swallowing may lead to burns, perforation of soft tissue, and death. Severe burns can occur within 2h of ingestion.
3. In case of ingestion of a cell, seek medical assistance promptly.

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Test item particulars..... :	
Classification of installation and use..... :	To be defined in final product
Supply Connection..... :	DC Lead wire
Recommend charging method declared by the manufacturer..... :	Charging the battery with 60mA constant current and 4.35V constant voltage until the current reduces to 6mA at ambient 20°C±5°C.
Discharge current (0,2 It A) ..... :	60mA
Specified final voltage..... :	3.0V
Upper limit charging voltage per cell..... :	4.35V
Maximum charging current..... :	300mA
Charging temperature upper limit..... :	45°C
Charging temperature lower limit..... :	0°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 .....:	2024-09-11
Date (s) of performance of tests.....:	2024-09-11 to 2024-09-22

General remarks:

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 testing laboratory,
"(Cell #XX)" refers to sample number of cells, "X" is 0~9;
"(Battery #XX)" refers to sample number of batteries, "X" is 0~9;
"(see below table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

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

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

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General product information and other remarks:

This battery is constructed with single lithium-ion cell, and has overcharge, over-discharge, over current and short-circuits proof circuit.

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

Model (Battery)	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Final Voltage
YQ 551926	300mAh	3.8V	60mA	60mA	300mA	300mA	4.35V	3.0V

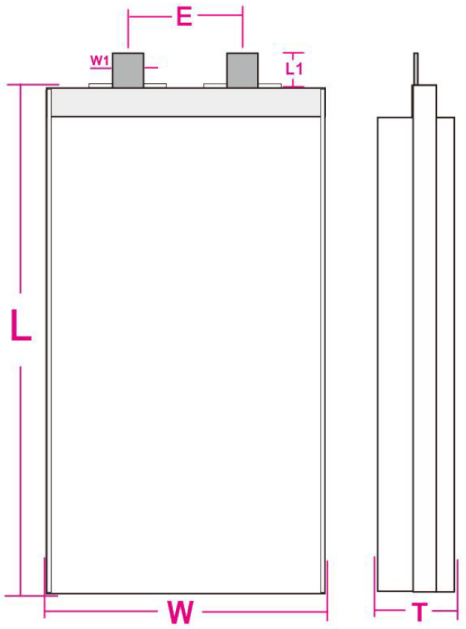
The main features of the cell in the battery are shown as below (clause 7.1.1):

Model (Cell)	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Final Voltage
YQ 551926	300mAh	3.8V	60mA	60mA	300mA	300mA	4.35V	3.0V

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

Model (Cell)	Upper limit charge voltage	Taper-off current (0.05 It A)	Lower charge temperature	Upper charge temperature
YQ 551926	4.35V	15mA	0°C	45°C

Construction:



T	W	L
5.5±0.1mm	19±0.2mm	26±0.5mm

Cell

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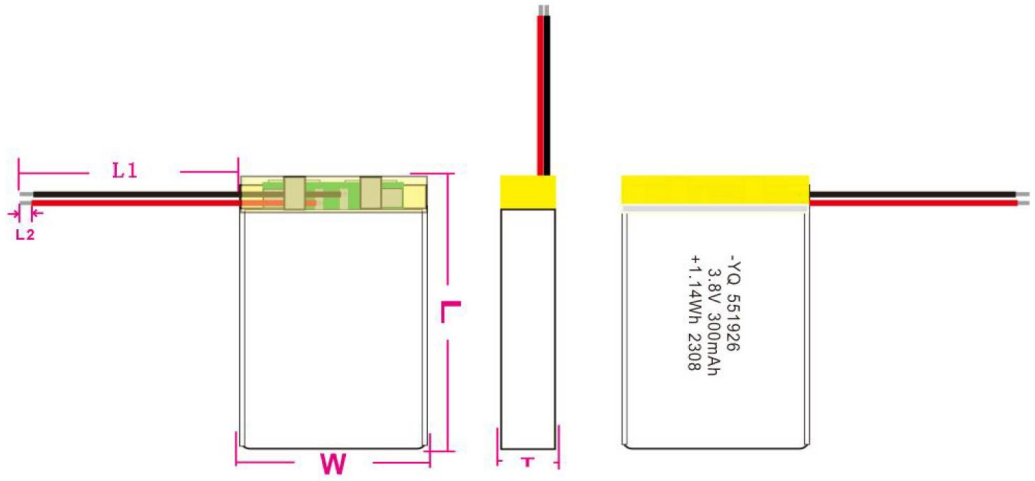
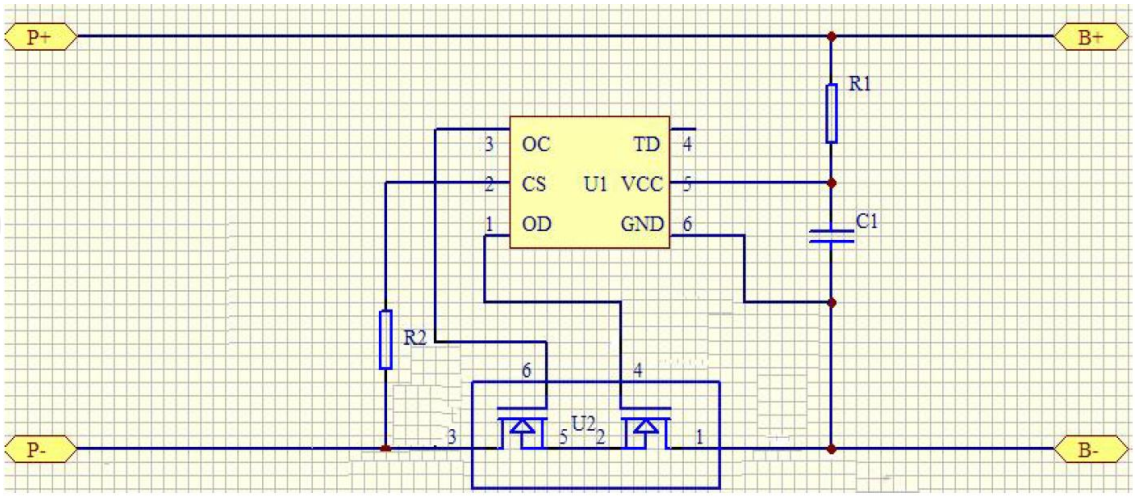


(T)	5.5±0.1 mm Max
(W)	19±0.2 mm Max
(L)	27.5 mm Max

Battery

Circuit diagram:



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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**		P
	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 surface exists.	N/A
	Insulation resistance (MΩ) ..... :		—
	Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements		P
	Orientation of wiring maintains adequate clearance and creepage distances between conductors		P
	Mechanical integrity of internal connections accommodates reasonably foreseeable misuse		P
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 narrow side of pouch 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**		P
	Batteries are designed such that abnormal temperature rise conditions are prevented	Overcharge, over discharge, over current and short-circuit proof circuit used in this battery. See tests of clause 7.	P
	Batteries are designed to be within temperature, voltage and current limits specified by the cell manufacturer	See above.	P
	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	The charging limits specified in the manufacturer's specification.	P
5.5	**Terminal contacts**		P

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IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current	DC Lead wire contacts complied with the requirements.	P
	External terminal contact surfaces are formed from conductive materials with good mechanical strength and corrosion resistance		P
	Terminal contacts are arranged to minimize the risk of short-circuit		P
5.6	**Assembly of cells into batteries**		P
5.6.1	General		P
	Each battery have 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	Protective circuit equipped on battery.	P
	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 have 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	Current, voltage and temperature limits specified by cell manufacturer.	P
	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 added as appropriate and consideration given to the end-device application		P
	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	Safety analysis report provided by manufacturer.	P
5.6.2	Design recommendation		P
	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	Single cell battery, Max. Charging voltage of cell: 4.35V.	P

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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 not be 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 not discharged beyond the cell manufacturer's specified final voltage	Final voltage of cell: 3.0V, not exceed the final voltage specified by cell manufacturer.	P
	For batteries consisting of series-connected cells or cell blocks, cell balancing circuitry incorporated into the battery management system		N/A
5.6.3	Mechanical protection for cells and components of batteries		P
	Mechanical protection for cells, cell connections and control circuits within the battery provided to prevent damage as a result of intended use and reasonably foreseeable misuse	Mechanical protection for cell connections and control circuits provided.	P
	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	Build-in batteries, mechanical protection for cells should be provided by end product.	N/A
	The battery case and compartments housing cells designed to accommodate cell dimensional tolerances during charging and discharging as recommended by the cell manufacturer	To be evaluated in final system.	N/A
	For batteries intended for building into a portable end product, testing with the battery installed within the end product considered when conducting mechanical tests		N/A
5.7	**Quality plan**		P

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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
	According annex F	See TABLE: Critical components information	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
	Coin cells with resistance ≤ 3 Ω (measured according annex D) are tested according 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 overdischarge protection		P
	When conducting the short-circuit test, consideration 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	See clause 7.3.2.	P
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 4.	P
	Prior to charging, the battery have been discharged at 20 °C ± 5 °C at a constant current of 0,2 It A down to a specified final voltage	See page 4.	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 and 4 h, respectively, at ambient temperature of highest test temperature and lowest test temperature, 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 voltage charging method	Charge temperature specified by manufacturer: 0-45°C. 0°C used for lower limit tests. 45°C used for upper limit tests.	P
7.2	**Intended use**		P
7.2.1	Continuous charging at constant voltage (cells)		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 60mA.	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)		N/A
	Oven temperature (°C).....:		—
	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)	Tested complied.	P
	The batteries 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
	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		P
	A single fault in the discharge protection circuit conducted on one to four (depending upon the protection circuit) of the five samples before conducting the short-circuit test	Single fault conducted on three samples.	P
	A single fault applies to protective component parts such as MOSFET, fuse, thermostat or positive temperature coefficient (PTC) thermistor	Single fault applies on MOSFET U2.	P
	Results: No fire. No explosion.....:	(See appended table 7.3.2)	P

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IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
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°C	—
	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	Tested complied.	P
	The supply voltage which is:		P
	- 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	6.0V applied.	P
	- 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		P
	Test was continued until the temperature of the outer casing:		P
	- Reached steady state conditions (less than 10 °C change in 30-minute period); or		N/A
	- Returned to ambient		P
	Results: No fire. No explosion.....:	(See appended table 7.3.6)	P
7.3.7	Forced discharge (cells)	Tested complied.	P
	Discharge a single cell to the lower limit discharge voltage specified by the cell manufacturer	Lower limit discharge voltage 3.0V	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
	- 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