Report No.: TSZ23080400-P01-R01 Page 1 of 3

Test Report

Client	:			
Address	:			

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	:	Lithium-ion battery		**************************************	
Model/P.O. No.	:	Refer to the attachment	ia Tian		
Manufacturer	1	7/(20)	ISI.	天瀬	
Received Date	:	Aug 22, 2023	天棚		+ 1
Test Period	284	Aug 22, 2023~Aug 25, 2023		z M	
Test Requested	5	Regulation (EU) 2023/1542			

Co	onclusion	4 湖	Fian Su		天湖 Fran Su	1000
-	Lead(Pb), Cadmium(Cd), Mercury(Hg)			天讯 7ian Su	PASS	S.M.

For Further Details, Please Refer To the Following Page(s)

Approved by:

Date: Aug 25, 2023



Add: Building 1/4, No.2, Jinlong Road, Longgang District, Shenzhen, Guangdong, China.

Tel: 0755-89457984

E-mail: tsjc@tiansu.org

Post Code: 518116

Website: www.tiansu.org

Report No. : TSZ23080400-P01-R01

Page 2 of 3

Test Methods

Test Items		Test Method	Equipment
1	Lead(Pb), Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
\$ 4	Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES

Test Results

Test components	Test Item(s)	MDL (%)	Result(s) (%)	Limit Tun 500 (%)
no Tim Su	Lead(Pb)	0.0005	N.D.	0.0100
Lithium-ion battery	Cadmium(Cd)	0.0005	N.D.	0.0020
天湖 7	Mercury(Hg)	0.0001	N.D.	0.0005

Note:

- N.D.=Not Detected (<MDL); MDL=method detection limit.
 - According to regulation (EU) 2023/1542, All 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.
- The relevant chemical symbol indicating the heavy metal content shall be printed beneath the separate collection symbol and shall cover an area of at least one-quarter the size of that symbol.

Test Process:

Test Lead(Pb) ,Cadmium(Cd) , Mercury(Hg) concentration:

Sample preparation, weigh

Add the digesting reagent

Total digested by microwave

Filter and transfer to volumetric flask

Report No.: TSZ23080400-P01-R01 Page 3 of 3

Photo of the sample



Attachment:

INR18650-2000mAh	INR18650-1500mAh	INR18650-2500mAh	INR21700-3000mAh
INR18650-800mAh	INR18650-1600mAh	INR18650-2600mAh	INR21700-3500mAh
INR18650-900mAh	INR18650-1700mAh	INR18650-2800mAh	INR21700-3800mAh
INR18650-1000mAh	INR18650-1800mAh	INR18650-3000mAh	INR21700-4000mAh
INR18650-1100mAh	INR18650-2100mAh	INR18650-3100mAh	INR21700-4500mAh
INR18650-1200mAh	INR18650-2200mAh	INR18650-3200mAh	INR21700-4800mAh
INR18650-1300mAh	INR18650-2400mAh	INR21700-2500mAh	INR21700-5000mAh

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

This report is invalid without the Special Seal of Tiansu. This report shall not be altered, increase or deleted. The results shown in this report refer only to the sample(s) tested.

Report Sea



Test Report issued under the responsibility of:



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.....: CN24DKR2 001

Date of issue....:: 2024-04-19

Total number of pages:: 39 pages

Name of Testing Laboratory

ATS Electronic Technology Co., Ltd preparing the Report:

Applicant's name:

Address....::

Test specification:

Standard IEC 62133-2:2017, IEC 62133-2:2017/AMD1:2021

Test procedure: CB Scheme

Non-standard test method: N/A

TRF template used.....: IECEE OD-2020-F1:2021, Ed.1.4

Test Report Form No.....: IEC62133 2C

Test Report Form(s) Originator: DEKRA Certification B.V.

Master TRF: Dated 2022-07-01

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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: Recha		argeable Li-ion Cell			
Trade Mark(s):	N/A				
Manufacturer:	Same	as applicant			
Model/Type reference:	INR18	18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, 18650 1800mAh, INR18650 2000mAh, INR18650 2200mAh, 18650 2500mAh, INR18650 2600mAh, INR18650 2800mAh, 18650 3000mAh, INR18650 3200mAh			
Ratings	3.7V, 2 3.7V, 2 3.7V, 2 3.7V, 2 3.7V, 2 3.7V, 2 3.7V, 2 3.7V, 3	1200mAh, 4.44Wh for IN 1300mAh, 4.81Wh for IN 1500mAh, 5.55Wh for IN 1800mAh, 6.66Wh for INI 2000mAh, 7.4Wh for INI 2500mAh, 8.14Wh for INI 2500mAh, 9.25Wh for INI 2600mAh, 9.62Wh for INI 2800mAh, 10.36Wh for INI 3200mAh, 11.1Wh for INI	R18650 1300mAh, R18650 1500mAh, R18650 1800mAh, 18650 2000mAh, R18650 2200mAh, R18650 2500mAh, R18650 2600mAh, NR18650 3000mAh,		
Responsible Testing Laboratory (as a	pplical	ole), testing procedure	and testing location(s):		
		ATS Electronic Techn			
Testing location/ address	:	3/F, Building A & 1/F, Building C , No. 1 Hedong Three Road, Jinxia Community, Changan Town, DongGuan City, Guangdong, China			
Tested by (name, function, signature)	:	Matt Zhao (Engineer)	M # 7/		
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Approved by (name, function, signatu		Jason Pan (Reviewer)	Janfan		
Approved by (name, function, signatu	re):		Jampan		
	re):		Jampan		
Approved by (name, function, signatu Testing procedure: CTF Stage 1:	re):	Jason Pan (Reviewer)	Tanjan .		
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Approved by (name, function, signatu Testing procedure: CTF Stage 1: Testing location/ address Tested by (name, function, signature) Approved by (name, function, signatu Testing procedure: CTF Stage 2:	re):: re):	Jason Pan (Reviewer)	Herman Andrews		
Approved by (name, function, signatu Testing procedure: CTF Stage 1: Testing location/ address Tested by (name, function, signature) Approved by (name, function, signatu Testing procedure: CTF Stage 2: Testing location/ address	re):: re):	Jason Pan (Reviewer)	Janjan		
Approved by (name, function, signatu Testing procedure: CTF Stage 1: Testing location/ address Tested by (name, function, signature) Approved by (name, function, signatu Testing procedure: CTF Stage 2: Testing location/ address Tested by (name + signature)	re):: re):	Jason Pan (Reviewer)	Herman Jan Jan Jan Jan Jan Jan Jan Jan Jan J		
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Approved by (name, function, signatu Testing procedure: CTF Stage 1: Testing location/ address Tested by (name, function, signature) Approved by (name, function, signatu Testing procedure: CTF Stage 2: Testing location/ address Tested by (name + signature) Witnessed by (name, function, signature) Approved by (name, function, signature)	re):: re):	Jason Pan (Reviewer)	Janjan Ja		
Approved by (name, function, signatu Testing procedure: CTF Stage 1: Testing location/ address Tested by (name, function, signature) Approved by (name, function, signatu 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:	re):: re):	Jason Pan (Reviewer)			

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: National Difference (4 pages).
- -Attachment 2: Photo documentation (11 pages).

Summary of testing:

Tests performed (name of test and test clause):

- cl.7.1 Charging procedure for test purposes (for 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).
- cl.8.2 Small cell and battery safety information

Tests are made with the number of cells specified in IEC 62133-2:2017, IEC 62133-2:2017/AMD1:2021 Table 1.

Testing location:

ATS Electronic Technology Co., Ltd

3/F, Building A & 1/F, Building C , No. 1 Hedong Three Road, Jinxia Community, Changan Town, DongGuan City, Guangdong,

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, EN 62133-2:2017/A1:2021

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.

For Model: INR18650 1200mAh

Rechargeable Li-ion Cell INR18650 1200mAh

+ 3.7V, 1200mAh, 4.44Wh

INR19/66

YYYYMMDD

For Model: INR18650 1300mAh

Rechargeable Li-ion Cell

INR18650 1300mAh

+ 3.7V, 1300mAh, 4.81Wh

INR19/66

YYYYMMDD

For Model: INR18650 1500mAh

Rechargeable Li-ion Cell

INR18650 1500mAh

+ 3.7V, 1500mAh, 5.55Wh

INR19/66

YYYYMMDD

For Model: INR18650 1800mAh

Rechargeable Li-ion Cell

INR18650 1800mAh

+ 3.7V, 1800mAh, 6.66Wh

INR19/66

YYYYMMDD

For Model: INR18650 2000mAh

Rechargeable Li-ion Cell INR18650 2000mAh

+ 3.7V 2000mAh, 7.4Wh

INR19/66

YYYYMMDD

For Model: INR18650 2200mAh

Rechargeable Li-ion Cell

INR18650 2200mAh

+ 3.7V, 2200mAh, 8.14Wh

INR19/66

YYYYMMDD

For Model: INR18650 2500mAh

Rechargeable Li-ion Cell

INR18650 2500mAh

+ 3.7V, 2500mAh, 9.25Wh

INR19/66

YYYYMMDD

For Model: INR18650 2600mAh

Rechargeable Li-ion Cell

INR18650 2600mAh

+ 3.7V, 2600mAh, 9.62Wh

INR19/66

YYYYMMDD

For Model: INR18650 2800mAh

Rechargeable Li-ion Cell INR18650 2800mAh

+ 3.7V, 2800mAh, 10.36Wh

INR19/66

YYYYMMDD

For Model: INR18650 3000mAh

Rechargeable Li-ion Cell

INR18650 3000mAh

+ 3.7V, 3000mAh, 11.1Wh

INR19/66

YYYYMMDD

For Model: INR18650 3200mAh

Rechargeable Li-ion Cell

INR18650 3200mAh

+ 3.7V, 3200mAh, 11.84Wh

INR19/66

YYYYMMDD

Remark: YYYYMMDD represents the date of manufacture, YYYY represents the year, MM represents month, DD represents day.

Test item particulars:					
Classification of installation and use:	To be evaluated in end device				
Supply Connection:	Terminal contact				
Recommend charging method declared by the manufacturer:					
Discharge current (0,2 lt A):	0.2C				
Specified final voltage:	2.75V				
Upper limit charging voltage per cell:	4.2V				
Maximum charging current:	1.0C				
Charging temperature upper limit:	50°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:	2024-03-20				
Date (s) of performance of tests:	2024-03-22 to 2024-04-08				
General remarks:					
"(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the					
Throughout this report a \square comma / \boxtimes point is u	sed 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:

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

Models difference and test model select:

This series of Li-ion Cell cover 11 models (INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 1800mAh, INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh, INR18650 2800mAh, INR18650 3000mAh, INR18650 3200mAh), these cells are identical except capacity and model name. The models INR18650 1200mAh, INR18650 1500mAh, INR18650 1800mAh, INR18650 2200mAh, INR18650 2600mAh and INR18650 3200mAh are selected to be tested for representative models.

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	Recommend Charge Voltage	Specified final voltage
INR18650 1200mAh	1200mA h	3.7V	600mA	600mA	1200mA	12000mA	4.2V	2.75V
INR18650 1500mAh	1500mA h	3.7V	750mA	750mA	1500mA	15000mA	4.2V	2.75V
INR18650 1800mAh	1800mA h	3.7V	900mA	900mA	1800mA	18000mA	4.2V	2.75V
INR18650 2200mAh	2200mA h	3.7V	1100mA	1100mA	2200mA	22000mA	4.2V	2.75V
INR18650 2600mAh	2600mA h	3.7V	1300mA	1300mA	2600mA	26000mA	4.2V	2.75V
INR18650 3200mAh	3200mA h	3.7V	1600mA	1600mA	3200mA	32000mA	4.2V	2.75V

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

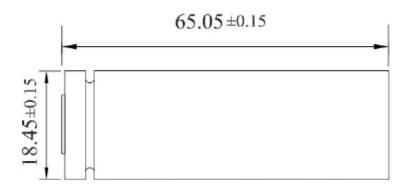
Model	Upper limit charge voltage	Taper-off current	Lower charge temperature	Upper charge temperature
INR18650 1200mAh	4.2V	60mA	0°C	50°C
INR18650 1500mAh	4.2V	75mA	0°C	50°C
INR18650 1800mAh	4.2V	90mA	0°C	50°C
INR18650 2200mAh	4.2V	110mA	0°C	50°C
INR18650 2600mAh	4.2V	130mA	0°C	50°C
INR18650 3200mAh	4.2V	160mA	0°C	50°C

The main feat	The main features of the cell are shown as below:							
Model	Rated Capacity (mAh)	Nominal voltage (V)	Specified final voltage (V)	Upper limit charge voltage (V)	Nominal Charge Current (mA)	Nominal Discharge Current (mA)	Maximum charge current (mA)	Maximum discharge current (mA)
INR18650 1200mAh	1200	3.7	2.75	4.2	600	600	1200*	12000**
INR18650 1300mAh	1300	3.7	2.75	4.2	650	650	1300*	13000**
INR18650 1500mAh	1500	3.7	2.75	4.2	750	750	1500*	15000**
INR18650 1800mAh	1800	3.7	2.75	4.2	900	900	1800*	18000**
INR18650 2000mAh	2000	3.7	2.75	4.2	1000	1000	2000*	20000**
INR18650 2200mAh	2200	3.7	2.75	4.2	1100	1100	2200*	22000**
INR18650 2500mAh	2500	3.7	2.75	4.2	1250	1250	2500*	25000**
INR18650 2600mAh	2600	3.7	2.75	4.2	1300	1300	2600*	26000**
INR18650 2800mAh	2800	3.7	2.75	4.2	1400	1400	2800*	28000**
INR18650 3000mAh	3000	3.7	2.75	4.2	1500	1500	3000*	30000**
INR18650 3200mAh	3200	3.7	2.75	4.2	1600	1600	3200*	32000**

Remark:

- * Maximum charging current declared by manufacturer is 0.5C at 0°C ≤ T ≤ 10°C,
- * Maximum charging current declared by manufacturer is 1C at 10°C < T ≤ 50°C,
- ** Maximum discharging current declared by manufacturer is 0.2C at -20°C ≤ T ≤ 0°C,
- ** Maximum discharging current declared by manufacturer is 1C at 0°C < T ≤ 15°C,
- ** Maximum discharging current declared by manufacturer is 10C at 15°C < T ≤ 60°C

Construction:



Construction for all models of Cell (Unit: mm)

Circuit diagram:

None, cell only

	Page 11 of 39	Report No. CN24D	OKR2 001
	IEC 62133-2		
Clause	Requirement + Test	Result - Remark	Verdict
4	PARAMETER MEASUREMENT TOLERANCES		Р
	Parameter measurement tolerances		Р
5	GENERAL SAFETY CONSIDERATIONS		Р
5.1	General		Р
	Cells and batteries so designed and constructed that they are safe under conditions of both intended use and reasonably foreseeable misuse		Р
5.2	Insulation and wiring	Cell only	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 $5\ M\Omega$		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		Р
	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 side of cylindrical cell.	Р
	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		Р
	The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current	Terminal contact complied with the requirements.	Р

	Fage 12 01 39	1 toport 1 to.	CN24DKKZ 00 I		
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	Complied.	Р		
	Terminal contacts are arranged to minimize the risk of short circuits		Р		
5.6	Assembly of cells into batteries	Cell only.	N/A		
5.6.1	General		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		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	<u> </u>	ON ENDINE CONT
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		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		Р

	Page 14 of 39	Report No. CN2	4DKR2 001
	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. ISO 9001: 2015 certificate provided.	Р
5.8	Battery safety components	See TABLE: Critical components information	N/A
6	TYPE TEST AND SAMPLE SIZE		Р
	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		Р
	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 $^{\circ}\text{C}$ ± 5 $^{\circ}\text{C}$		Р
	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		Р
7.1	Charging procedure for test purposes		Р
7.1.1	First procedure		Р
	This charging procedure applies to subclauses other than those specified in 7.1.2		Р
	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 8.	Р
	Prior to charging, the battery has been discharged at $20~^{\circ}\text{C} \pm 5~^{\circ}\text{C}$ at a constant current of 0,2 It A down to a specified final voltage	See page 8.	Р
7.1.2	Second procedure		Р
	This charging procedure applies only to 7.3.1, 7.3.4, 7.3.5, and 7.3.9		Р
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	IEC 62133-2	·	
Clause	Requirement + Test	Result - Remark	Verdict
Clause	requirement : rest	Tresuit - Itemark	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 lt A, using a constant current to constant voltage charging method	Charge temperature specified by manufacturer: 0-50°C. 0°C used for lower limit tests. 50°C used for upper limit tests.	Р
7.2	Intended use		Р
7.2.1	Continuous charging at constant voltage (cells)	Tested complied.	Р
	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 7 days with 0.5C and 4.2V.	Р
	Results: no fire, no explosion, no leakage:	(See appended table 7.2.1)	Р
7.2.2	Case stress at high ambient temperature (battery)	Cell only.	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		Р
7.3.1	External short-circuit (cell)	Tested complied.	Р
	The cells were tested until one of the following occurred:		Р
	- 24 hours elapsed; or		N/A
	- The case temperature declined by 20 % of the maximum temperature rise		Р
	Results: no fire, no explosion:	(See appended table 7.3.1)	Р
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.	Р
	Results: no fire, no explosion	No fire. No explosion	Р
7.3.4	Thermal abuse (cells)	Tested complied.	Р
	Oven temperature (°C):	130°C	_
	Results: no fire, no explosion	No fire. No explosion	Р
7.3.5	Crush (cells)	Tested complied.	Р
	The crushing force was released upon:		Р
	- The maximum force of 13 kN \pm 0,78 kN has been applied; or		Р
	- 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)	Р
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.	Р
	Discharge a single cell to the lower limit discharge voltage specified by the cell manufacturer		Р
	The discharged cell is then subjected to a forced discharge at 1 It A to the negative value of the upper limit charging voltage		Р

	Page 17 01 39	Report No. CN24	DKR2 00		
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		Р		
	Results: no fire, no explosion:	(See appended table 7.3.7)	Р		
7.3.8	Mechanical tests (batteries)	Cell only.	N/A		
7.3.8.1	Vibration		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		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.	Р		
	The cells complied with national requirement for:	France, Japan, Korea, Switzerland	_		
	The pressing was stopped upon:		Р		
	- 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 cell.	Р		
	Results: no fire:	(See appended table 7.3.9)	Р		

8	INFORMATION FOR SAFETY		Р
8.1	General		Р
	Manufacturers of secondary cells provides information about current, voltage and temperature limits of their products	Information for safety mentioned in manufacturer's specifications.	Р
	Manufacturers of batteries provides information regarding how to minimize and mitigate hazards to equipment manufacturers or end-users		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

	1 age 10 01 00	rtoport rto.	0112+D11112 001			
	IEC 62133-2					
Clause	Requirement + Test	Result - Remark	Verdict			
	Do not allow children to replace batteries without adult supervision		N/A			
8.2	Small cell and battery safety information	Not small cells.	N/A			
	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		Р
9.1	Cell marking		Р
	Cells are marked as specified in IEC 61960, except coin cells	See marking plate on page 5 to page 7.	Р
	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		N/A
	Coin cells and batteries identified as small batteries include a caution statement regarding the hazards of ingestion in accordance with 8.2	Not coin cells.	N/A

	1 uge 10 01 00	report No. 0112-11	
	IEC 62133-2		
Clause	Requirement + Test	Result - Remark	Verdict
	Small cells and batteries are intended for direct sale in consumer-replaceable applications, caution for ingestion is given on the immediate package	Not intended for direct sale.	N/A
9.4	Other information		Р
	The following information are marked on or supplied with the battery:		Р
	- Storage and disposal instructions	Information for storage and disposal instructions mentioned in manufacturer's specifications.	Р
	- Recommended charging instructions	Information for recommended charging instructions mentioned in manufacturer's specifications.	Р

10	PACKAGING AND TRANSPORT			
	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	A CHARGING AND DISCHARGING RANGE OF SECONDARY LITHIUM ION CELLS FOR SAFE USE		
A.1	General		Р
A.2	Safety of lithium ion secondary battery	Complied.	Р
A.3	Consideration on charging voltage	Complied.	Р
A.3.1	General		Р
A.3.2	Upper limit charging voltage	4.2V	Р
A.3.2.1	General		Р
A.3.2.2	Explanation of safety viewpoint		N/A
A.3.2.3	Safety requirements, when different upper limit charging voltage is applied	4.2V applied.	N/A
A.4	Consideration of temperature and charging current		Р
A.4.1	General		Р
A.4.2	Recommended temperature range	See A.4.2.2.	Р
A.4.2.1	General		Р
A.4.2.2	Safety consideration when a different recommended temperature range is applied	Charging temperature declared by client is 0-50°C	Р
A.4.3	High temperature range	Charging high temperature declared by client is 50°C.	Р
A.4.3.1	General		Р

	IEC 62133-2	-	
Clause	Requirement + Test	Result - Remark	Verdict
A.4.3.2	Explanation of safety viewpoint		Р
A.4.3.3	Safety considerations when specifying charging conditions in the high temperature range	50°C applied	Р
A.4.3.4	Safety considerations when specifying a new upper limit in the high temperature range		Р
A.4.4	Low temperature range	Charging low temperature declared by client is 0°C.	Р
A.4.4.1	General		Р
A.4.4.2	Explanation of safety viewpoint		Р
A.4.4.3	Safety considerations, when specifying charging conditions in the low temperature range	0°C applied	Р
A.4.4.4	Safety considerations when specifying a new lower limit in the low temperature range		Р
A.4.5	Scope of the application of charging current		Р
A.4.6	Consideration of discharge		Р
A.4.6.1	General		Р
A.4.6.2	Final discharge voltage and explanation of safety viewpoint	Cell specified final voltage is 2.75V, not exceed 2.75V specified by cell manufacturer.	Р
A.4.6.3	Discharge current and temperature range		Р
A.4.6.4	Scope of application of the discharging current		Р
A.5	Sample preparation		Р
A.5.1	General		Р
A.5.2	Insertion procedure for nickel particle to generate internal short		Р
A.5.3	Disassembly of charged cell		Р
A.5.4	Shape of nickel particle		Р
A.5.5	Insertion of nickel particle in cylindrical cell		Р
A.5.5.1	Insertion of nickel particle in winding core		Р
A.5.5.2	Marking the position of the nickel particle on both ends of the winding core of the separator		Р
A.5.6	Insertion of nickel particle in prismatic cell		N/A
A.6	Experimental procedure of the forced internal short-circuit test		Р
A.6.1	Material and tools for preparation of nickel particle		Р
A.6.2	Example of a nickel particle preparation procedure		Р
A.6.3	Positioning (or placement) of a nickel particle		Р
A.6.4	Damaged separator precaution		Р

	IEC 62133-2		
Clause	Requirement + Test	Result - Remark	Verdict
A.6.5	Caution for rewinding separator and electrode		Р
A.6.6	Insulation film for preventing short-circuit		Р
A.6.7	Caution when disassembling a cell		Р
A.6.8	Protective equipment for safety		Р
A.6.9	Caution in the case of fire during disassembling		Р
A.6.10	Caution for the disassembling process and pressing the electrode core		Р
A.6.11	Recommended specifications for the pressing device		Р
ANNEX B	RECOMMENDATIONS TO EQUIPMENT MANUFACASSEMBLERS	CTURERS AND BATTERY	N/A
ANNEX C	RECOMMENDATIONS TO THE END-USERS		N/A
ANNEX D	MEASUREMENT OF THE INTERNAL AC RESIST.	ANCE FOR COIN CELLS	N/A
D.1	General		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

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

7.2.1 TABLE	TABLE: Continuous charging at constant voltage (cells)					
Sample No.	Recommended charging voltage Vc (Vdc)	Recommended charging current I _{rec} (A)	OCV before test (Vdc)	Results		
For model INR1865	0 1200mAh:					
INR18650 1200mA Cell #1	h 4.2	0.6	4.18	Р		
INR18650 1200mA Cell #2	h 4.2	0.6	4.17	Р		
INR18650 1200mA Cell #3	h 4.2	0.6	4.17	Р		
INR18650 1200mA Cell #4	h 4.2	0.6	4.18	Р		
INR18650 1200mA Cell #5	h 4.2	0.6	4.17	Р		
For model INR1865	i0 1500mAh:					
INR18650 1500mA Cell #1	h 4.2	0.75	4.18	Р		
INR18650 1500mA Cell #2	h 4.2	0.75	4.17	Р		
INR18650 1500mA Cell #3	h 4.2	0.75	4.18	Р		
INR18650 1500mA Cell #4	h 4.2	0.75	4.17	Р		
INR18650 1500mA Cell #5	h 4.2	0.75	4.17	Р		
For model INR1865	i0 1800mAh:					
INR18650 1800mA Cell #1	h 4.2	0.9	4.17	Р		
INR18650 1800mA Cell #2	h 4.2	0.9	4.17	Р		
INR18650 1800mA Cell #3	h 4.2	0.9	4.18	Р		
INR18650 1800mA Cell #4	h 4.2	0.9	4.18	Р		
INR18650 1800mAh Cell #5 4.2		0.9	4.18	Р		
For model INR1865	For model INR18650 2200mAh:					
INR18650 2200mA Cell #1	h 4.2	1.1	4.18	Р		
INR18650 2200mA Cell #2	h 4.2	1.1	4.18	Р		

			IEC 62133-2		
Clause	Requireme	ent + Test		Result - Remark	Verdic
INR18650 2 Cell		4.2	1.1	4.17	Р
INR18650 2 Cell		4.2	1.1	4.18	Р
INR18650 2 Cell		4.2	1.1	4.17	Р
For model I	NR18650	2600mAh:		•	
INR18650 2 Cell :		4.2	1.3	4.17	Р
INR18650 2 Cell :		4.2	1.3	4.18	Р
INR18650 2 Cell :		4.2	1.3	4.18	Р
INR18650 2 Cell :		4.2	1.3	4.17	Р
INR18650 2 Cell		4.2	1.3	4.17	Р
For model I	NR18650	3200mAh:		•	
INR18650 3 Cell		4.2	1.6	4.17	Р
INR18650 3 Cell		4.2	1.6	4.18	Р
INR18650 3 Cell :		4.2	1.6	4.17	Р
INR18650 3 Cell		4.2	1.6	4.18	Р
INR18650 3 Cell :		4.2	1.6	4.18	Р

7.3.1	TABLE: Exte	ernal short circ	uit (cell)			Р
Sar	nple No.	Ambient (°C)	OCV at start of test (Vdc)	Resistance of circuit (mΩ)	Maximum case temperature rise AT (K), °C	Results
For model INR18650 1200mAh:						
Samples charged at charging temperature upper limit (50°C)						
	50 1200mAh Cell #6	56.0	4.18	81.5	118.1	Р

- No leakage

		IEC 6213	3-2	<u> </u>	
Clause Requirement	+ Test			Remark	Verdict
INR18650 1200mAh Cell #7	56.0	4.18	80.8	118.6	Р
INR18650 1200mAh Cell #8	56.0	4.17	82.0	121.1	Р
INR18650 1200mAh Cell #9	56.0	4.17	79.8	117.8	Р
INR18650 1200mAh Cell #10	56.0	4.18	81.3	121.6	Р
Sar	nples charged	at charging te	mperature lower	limit (0°C)	
INR18650 1200mAh Cell #11	56.0	4.09	80.6	127.3	Р
INR18650 1200mAh Cell #12	56.0	4.10	79.9	128.4	Р
INR18650 1200mAh Cell #13	56.0	4.10	81.7	130.2	Р
INR18650 1200mAh Cell #14	56.0	4.09	82.2	133.6	Р
INR18650 1200mAh Cell #15	56.0	4.10	80.3	131.0	Р
For model INR18650 150	00mAh:				
Sam	ples charged a	at charging ten	nperature upper	limit (50°C)	
INR18650 1500mAh Cell #6	55.8	4.17	83.2	124.2	Р
INR18650 1500mAh Cell #7	55.8	4.17	82.4	123.8	Р
INR18650 1500mAh Cell #8	55.8	4.18	83.3	124.6	Р
INR18650 1500mAh Cell #9	55.8	4.17	82.1	123.0	Р
INR18650 1500mAh Cell #10	55.8	4.18	81.7	122.8	Р
Sar	nples charged	at charging te	mperature lower	limit (0°C)	
INR18650 1500mAh Cell #11	55.8	4.10	82.4	127.4	Р
INR18650 1500mAh Cell #12	55.8	4.11	80.9	131.7	Р
INR18650 1500mAh Cell #13	55.8	4.10	81.5	129.8	Р
INR18650 1500mAh Cell #14	55.8	4.10	84.1	128.1	Р
INR18650 1500mAh Cell #15	55.8	4.11	83.7	129.6	Р

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

For model INR18650 1800mAh:							
Samples charged at charging temperature upper limit (50°C)							
INR18650 1800mAh Cell #6	55.7	4.17	80.8	113.9	Р		
INR18650 1800mAh Cell #7	55.7	4.17	82.5	111.9	Р		
INR18650 1800mAh Cell #8	55.7	4.18	84.0	114.5	Р		
INR18650 1800mAh Cell #9	55.7	4.18	82.3	115.9	Р		
INR18650 1800mAh Cell #10	55.7	4.17	81.9	109.5	Р		
Sar	nples charged	at charging te	mperature lower	limit (0°C)			
INR18650 1800mAh Cell #11	55.7	4.09	82.2	122.2	Р		
INR18650 1800mAh Cell #12	55.7	4.10	78.9	122.7	Р		
INR18650 1800mAh Cell #13	55.7	4.09	83.0	127.0	Р		
INR18650 1800mAh Cell #14	55.7	4.10	79.8	127.6	Р		
INR18650 1800mAh Cell #15	55.7	4.09	82.4	125.0	Р		
For model INR18650 220	00mAh:						
Sam	ples charged a	at charging ten	nperature upper I	imit (50°C)			
INR18650 2200mAh Cell #6	56.1	4.16	83.5	126.3	Р		
INR18650 2200mAh Cell #7	56.1	4.17	81.9	125.1	Р		
INR18650 2200mAh Cell #8	56.1	4.17	81.2	131.8	Р		
INR18650 2200mAh Cell #9	56.1	4.16	80.8	123.3	Р		
INR18650 2200mAh Cell #10	56.1	4.18	80.5	128.6	Р		
Samples charged at charging temperature lower limit (0°C)							
INR18650 2200mAh Cell #11	56.1	4.10	81.7	132.7	Р		
INR18650 2200mAh Cell #12	56.1	4.10	79.8	131.2	Р		

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Clause Requireme	nt + Test		Result -	Remark	Verdict
INR18650 2200mAh Cell #13	56.1	4.09	84.1	132.7	Р
INR18650 2200mAh Cell #14	56.1	4.09	82.3	132.6	Р
INR18650 2200mAh Cell #15	56.1	4.10	83.0	136.1	Р
For model INR18650 2	600mAh:				
Sa	imples charged a	at charging ten	nperature upper l	limit (50°C)	
INR18650 2600mAh Cell #6	55.6	4.18	84.1	116.2	Р
INR18650 2600mAh Cell #7	55.6	4.17	81.7	122.7	Р
INR18650 2600mAh Cell #8	55.6	4.18	83.2	116.3	Р
INR18650 2600mAh Cell #9	55.6	4.18	80.9	113.0	Р
INR18650 2600mAh Cell #10	55.6	4.17	83.5	115.7	Р
S	amples charged	at charging te	mperature lower	limit (0°C)	
INR18650 2600mAh Cell #11	55.6	4.10	80.7	130.1	Р
INR18650 2600mAh Cell #12	55.6	4.11	79.9	130.0	Р
INR18650 2600mAh Cell #13	55.6	4.10	80.6	129.4	Р
INR18650 2600mAh Cell #14	55.6	4.11	81.3	125.0	Р
INR18650 2600mAh Cell #15	55.6	4.11	83.7	124.7	Р
For model INR18650 3	200mAh:			1	l
Sa	imples charged a	at charging ten	nperature upper l	limit (50°C)	
INR18650 3200mAh Cell #6	55.9	4.16	84.0	111.8	Р
INR18650 3200mAh Cell #7	55.9	4.17	81.8	114.0	Р
INR18650 3200mAh Cell #8	55.9	4.16	83.5	119.0	Р
INR18650 3200mAh Cell #9	55.9	4.18	80.9	118.6	Р
INR18650 3200mAh Cell #10	55.9	4.17	83.2	112.9	Р

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

Samples charged at charging temperature lower limit (0°C)									
INR18650 3200mAh Cell #11	55.9	4.10	80.7	123.6	Р				
INR18650 3200mAh Cell #12	55.9	4.10	78.9	120.9	Р				
INR18650 3200mAh Cell #13	55.9	4.09	80.6	121.1	Р				
INR18650 3200mAh Cell #14	55.9	4.09	81.5	122.3	Р				
INR18650 3200mAh Cell #15	55.9	4.10	83.3	124.3	Р				

Supplementary information:

- No fire or explosion

7.3.2	TAB	TABLE: External short circuit (battery)					
Sample N	lo.	Ambient T (°C)	OCV before test (Vdc)	Resistance of circuit (mΩ)	Maximum case temperature rise ΔT (K), °C	Component single fault condition	Results
Supplemen	Supplementary information:						

7.3.5	7.3.5 TABLE: Crush (cells)					
Sample No.		OCV before test (Vdc)	OCV at removal of crushing force (Vdc)	Maximum force applied to the cell during crush (kN)	Results	
For model	INR18650 12	00mAh:				
	San	nples charged at cl	harging temperature ι	pper limit (50°C)		
	1200mAh #29	4.18	3.24	13	Р	
	1200mAh #30	4.18	3.35	13	Р	
	1200mAh #31	4.17	3.09	13	Р	
	1200mAh #32	4.17	3.41	13	Р	

IEC 62133-2							
Clause	Requirement	t + Test	I	Result - Remark	Verdict		
	1200mAh #33	4.18	3.29	13	Р		
	Sa	mples charged at c	harging temperature	e lower limit (0°C)			
	1200mAh #34	4.10	3.01	13	Р		
	1200mAh #35	4.09	3.34	13	Р		
	1200mAh #36	4.10	3.47	13	Р		
	1200mAh #37	4.10	3.22	13	Р		
	1200mAh #38	4.09	2.94	13	Р		
For model I	NR18650 15	00mAh:					
	Sar	nples charged at cl	narging temperature	upper limit (50°C)			
	1500mAh #29	4.17	3.37	13	Р		
	1500mAh #30	4.18	3.17	13	Р		
	1500mAh #31	4.17	2.85	13	Р		
	1500mAh #32	4.17	2.60	13	Р		
	1500mAh #33	4.18	3.37	13	Р		
	Sa	mples charged at o	harging temperature	e lower limit (0°C)			
	1500mAh #34	4.11	2.86	13	Р		
	1500mAh #35	4.10	3.04	13	Р		
	1500mAh #36	4.11	3.65	13	Р		
	1500mAh #37	4.10	3.08	13	Р		
	1500mAh #38	4.10	2.55	13	Р		
For model INR18650 1800mAh:							
	Samples charged at charging temperature upper limit (50°C)						
	1800mAh #29	4.17	3.36	13	Р		

IEC 62133-2							
Clause Requireme	nt + Test	F	Result - Remark	Verdict			
INR18650 1800mAh Cell #30	4.18	3.20	13	Р			
INR18650 1800mAh Cell #31	4.17	3.18	13	Р			
INR18650 1800mAh Cell #32	4.17	2.63	13	Р			
INR18650 1800mAh Cell #33	4.18	2.98	13	Р			
S	amples charged at o	charging temperature	lower limit (0°C)				
INR18650 1800mAh Cell #34	4.09	3.15	13	Р			
INR18650 1800mAh Cell #35	4.08	3.72	13	Р			
INR18650 1800mAh Cell #36	4.09	3.35	13	Р			
INR18650 1800mAh Cell #37	4.09	3.08	13	Р			
INR18650 1800mAh Cell #38	4.08	2.93	13	Р			
For model INR18650 2	200mAh:						
Sa	amples charged at c	harging temperature	upper limit (50°C)				
INR18650 2200mAh Cell #29	4.16	3.32	13	Р			
INR18650 2200mAh Cell #30	4.18	3.04	13	Р			
INR18650 2200mAh Cell #31	4.17	3.10	13	Р			
INR18650 2200mAh Cell #32	4.16	2.78	13	Р			
INR18650 2200mAh Cell #33	4.17	3.45	13	Р			
S	amples charged at o	charging temperature	lower limit (0°C)				
INR18650 2200mAh Cell #34	4.09	2.98	13	Р			
INR18650 2200mAh Cell #35	4.10	3.42	13	Р			
INR18650 2200mAh Cell #36	4.09	3.04	13	Р			
INR18650 2200mAh Cell #37	4.10	2.80	13	Р			
INR18650 2200mAh Cell #38	4.09	3.17	13	Р			

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

For model INR18650 2600mAh:									
Samples charged at charging temperature upper limit (50°C)									
INR18650 2600mAh Cell #29	4.17	3.25	13	Р					
INR18650 2600mAh Cell #30	4.17	2.70	13	Р					
INR18650 2600mAh Cell #31	4.18	3.25	13	Р					
INR18650 2600mAh Cell #32	4.18	3.05	13	Р					
INR18650 2600mAh Cell #33	4.17	2.98	13	Р					
Sa	mples charged at o	charging temperature	lower limit (0°C)						
INR18650 2600mAh Cell #34	4.11	2.65	13	Р					
INR18650 2600mAh Cell #35	4.11	3.08	13	Р					
INR18650 2600mAh Cell #36	4.10	3.15	13	Р					
INR18650 2600mAh Cell #37	4.11	3.05	13	Р					
INR18650 2600mAh Cell #38	4.10	3.26	13	Р					
For model INR18650 32	00mAh:								
San	nples charged at c	harging temperature ι	ıpper limit (50°C)						
INR18650 3200mAh Cell #29	4.17	2.95	13	Р					
INR18650 3200mAh Cell #30	4.16	3.32	13	Р					
INR18650 3200mAh Cell #31	4.16	3.24	13	Р					
INR18650 3200mAh Cell #32	4.17	3.35	13	Р					
INR18650 3200mAh Cell #33	4.16	2.85	13	Р					
Samples charged at charging temperature lower limit (0°C)									
INR18650 3200mAh Cell #34	4.10	3.17	13	Р					
INR18650 3200mAh Cell #35	4.09	2.68	13	Р					

				•			
			IEC 62133-2				
Clause	Requirement	+ Test		Result - Remark	Verdict		
	3200mAh #36	4.09	2.87	13	Р		
	3200mAh #37	4.10	3.43	13	Р		
	3200mAh #38	4.10	3.50	13	Р		
	Supplementary information: - No fire or explosion						

7.3.6	TABL	TABLE: Over-charging of battery						
Constant c	Constant charging current (A):							
Supply volt	tage (V	dc)	:				_	
Sample No. OCV before charging Total charging time Maximum outer case (Vdc) (minute) temperature (°C)					Re	esults		
Supplemen	ntary in	formation:						

7.3.7	TABLE: For	rced discharge (cells)					
Sample No.		OCV before application of reverse charge (Vdc)	Measured reverse charge It (A)	Lower limit discharge voltage (Vdc)	R	esults	
For model	INR18650 120	DomAh:					
	0 1200mAh II #39	3.05	1.2	2.75		Р	
	0 1200mAh II #40	3.06	1.2	2.75		Р	
	0 1200mAh II #41	3.05	1.2	2.75		Р	
	0 1200mAh II #42	3.06	1.2	2.75		Р	
INR18650 1200mAh Cell #43		3.05	1.2	2.75		Р	
For model INR18650 1500mAh:							
	0 1500mAh II #39	3.06	1.5	2.75		Р	

		C 62133-2		TIVE TO I
Clause Requiremen		1	esult - Remark	Verdict
INR18650 1500mAh Cell #40	3.07	1.5	2.75	Р
INR18650 1500mAh Cell #41	3.07	1.5	2.75	Р
INR18650 1500mAh Cell #42	3.06	1.5	2.75	Р
INR18650 1500mAh Cell #43	3.07	1.5	2.75	Р
For model INR18650 18	00mAh:			
INR18650 1800mAh Cell #39	3.05	1.8	2.75	Р
INR18650 1800mAh Cell #40	3.06	1.8	2.75	Р
INR18650 1800mAh Cell #41	3.05	1.8	2.75	Р
INR18650 1800mAh Cell #42	3.06	1.8	2.75	Р
INR18650 1800mAh Cell #43	3.05	1.8	2.75	Р
For model INR18650 22	00mAh:			
INR18650 2200mAh Cell #39	3.05	2.2	2.75	Р
INR18650 2200mAh Cell #40	3.06	2.2	2.75	Р
INR18650 2200mAh Cell #41	3.06	2.2	2.75	Р
INR18650 2200mAh Cell #42	3.06	2.2	2.75	Р
INR18650 2200mAh Cell #43	3.07	2.2	2.75	Р
For model INR18650 26	00mAh:			
INR18650 2600mAh Cell #39	3.05	2.6	2.75	Р
INR18650 2600mAh Cell #40	3.05	2.6	2.75	Р
INR18650 2600mAh Cell #41	3.04	2.6	2.75	Р
INR18650 2600mAh Cell #42	3.05	2.6	2.75	Р
INR18650 2600mAh Cell #43	3.04	2.6	2.75	Р
For model INR18650 32	00mAh:			

	1 age 33 01 39						
IEC 62133-2							
Clause	Requirement + Test			Result -	Verdict		
INR18650 3200mAh Cell #39		3.05	3.2		2.75	Р	
INR18650 3200mAh Cell #40		3.04	3.2		2.75	Р	
INR18650 3200mAh Cell #41		3.04	3.2		2.75	Р	
INR18650 3200mAh Cell #42		3.05	3.2		2.75	Р	
INR18650 3200mAh Cell #43		3.05	3.2		2.75	Р	
Supplementary information:							
- No fire or explosion							

7.3.8.1	TABLE: Vibration						
Sample No.		OCV before test (Vdc)	OCV after test (Vdc)	Mass before test (g)	Mass after test (g)	Results	
Supplementary information:							

7.3.8.2	TABLE: Mechanical shock						
Sample No.		OCV before test (Vdc)	OCV after test (Vdc)	Mass before test (g)	Mass after test (g)	Re	sults
Supplementary information:							

7.3.9	TABLE: Forced internal short circuit (cells)								
Sample No.		Chamber ambient T (°C)			Maximum applied pressure (N)	Results			
For model INR18650 1200mAh:									
Samples charged at charging temperature upper limit (50°C)									
INR18650 1200mAh Cell #44		50	4.17	1	800	Р			

		IEC 62133-2		·	
Clause Requiremen	t + Test		Result - Re	emark	Verdict
INR18650 1200mAh Cell #45	50	4.17	1	800	Р
INR18650 1200mAh Cell #46	50	4.18	1	800	Р
INR18650 1200mAh Cell #47	50	4.18	1*	800	Р
INR18650 1200mAh Cell #48	50	4.17	1*	800	Р
Sa	imples charged a	nt charging tempe	rature lower lin	nit (0°C)	
INR18650 1200mAh Cell #49	0	4.10	1	800	Р
INR18650 1200mAh Cell #50	0	4.10	1	800	Р
INR18650 1200mAh Cell #51	0	4.09	1	800	Р
INR18650 1200mAh Cell #52	0	4.10	1*	800	Р
INR18650 1200mAh Cell #53	0	4.09	1*	800	Р
For model INR18650 15	i00mAh:				
Sai	mples charged at	charging temper	ature upper lim	nit (50°C)	
INR18650 1500mAh Cell #44	50	4.17	1	800	Р
INR18650 1500mAh Cell #45	50	4.18	1	800	Р
INR18650 1500mAh Cell #46	50	4.17	1	800	Р
INR18650 1500mAh Cell #47	50	4.18	1*	800	Р
INR18650 1500mAh Cell #48	50	4.17	1*	800	Р
Sa	mples charged a	nt charging tempe	rature lower lin	nit (0°C)	
INR18650 1500mAh Cell #49	0	4.11	1	800	Р
INR18650 1500mAh Cell #50	0	4.11	1	800	Р
INR18650 1500mAh Cell #51	0	4.10	1	800	Р
INR18650 1500mAh Cell #52	0	4.10	1*	800	Р
INR18650 1500mAh Cell #53	0	4.11	1*	800	Р

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

For model INR18650 18	00mAh:				
Sar	mples charged a	t charging temper	ature upper lin	nit (50°C)	
INR18650 1800mAh Cell #44	50	4.18	1	800	Р
INR18650 1800mAh Cell #45	50	4.17	1	800	Р
INR18650 1800mAh Cell #46	50	4.17	1	800	Р
INR18650 1800mAh Cell #47	50	4.18	1*	800	Р
INR18650 1800mAh Cell #48	50	4.17	1*	800	Р
Sa	mples charged	at charging tempe	rature lower lin	nit (0°C)	
INR18650 1800mAh Cell #49	0	4.10	1	800	Р
INR18650 1800mAh Cell #50	0	4.09	1	800	Р
INR18650 1800mAh Cell #51	0	4.09	1	800	Р
INR18650 1800mAh Cell #52	0	4.09	1*	800	Р
INR18650 1800mAh Cell #53	0	4.10	1*	800	Р
For model INR18650 22	00mAh:				•
Sar	nples charged a	t charging temper	ature upper lim	nit (50°C)	
INR18650 2200mAh Cell #44	50	4.17	1	800	Р
INR18650 2200mAh Cell #45	50	4.16	1	800	Р
INR18650 2200mAh Cell #46	50	4.16	1	800	Р
INR18650 2200mAh Cell #47	50	4.17	1*	800	Р
INR18650 2200mAh Cell #48	50	4.16	1*	800	Р
Sa	mples charged	at charging tempe	rature lower lin	nit (0°C)	
INR18650 2200mAh Cell #49	0	4.10	1	800	Р
INR18650 2200mAh Cell #50	0	4.09	1	800	Р
	•			•	

				<u> </u>	
		IEC 62133-2			
Clause Requiren	nent + Test		Result - Re	emark	Verdict
INR18650 2200mA Cell #51	h 0	4.09	1	800	Р
INR18650 2200mA Cell #52	h 0	4.10	1*	800	Р
INR18650 2200mA Cell #53	h 0	4.10	1*	800	Р
For model INR18650	2600mAh:				
	Samples charged a	t charging temper	ature upper lim	nit (50°C)	
INR18650 2600mA Cell #44	h 50	4.17	1	800	Р
INR18650 2600mA Cell #45	h 50	4.17	1	800	Р
INR18650 2600mA Cell #46	h 50	4.18	1	800	Р
INR18650 2600mA Cell #47	h 50	4.18	1*	800	Р
INR18650 2600mA Cell #48	h 50	4.17	1*	800	Р
	Samples charged a	at charging tempe	rature lower lin	nit (0°C)	
INR18650 2600mA Cell #49		4.11	1	800	Р
INR18650 2600mA Cell #50	h 0	4.10	1	800	Р
INR18650 2600mA Cell #51	h 0	4.10	1	800	Р
INR18650 2600mA Cell #52	h 0	4.11	1*	800	Р
INR18650 2600mA Cell #53	h 0	4.11	1*	800	Р
For model INR18650	3200mAh:				
	Samples charged a	t charging temper	ature upper lim	nit (50°C)	
INR18650 3200mA Cell #44	h 50	4.16	1	800	Р
INR18650 3200mA Cell #45	h 50	4.17	1	800	Р
INR18650 3200mA Cell #46	h 50	4.16	1	800	Р
INR18650 3200mA Cell #47	h 50	4.17	1*	800	Р
INR18650 3200mA Cell #48	h 50	4.16	1*	800	Р

Page 37 of 39

Report No. CN24DKR2 001

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

Sa	Samples charged at charging temperature lower limit (0°C)							
INR18650 3200mAh Cell #49	0	4.10	1	800	Р			
INR18650 3200mAh Cell #50	0	4.09	1	800	Р			
INR18650 3200mAh Cell #51	0	4.10	1	800	Р			
INR18650 3200mAh Cell #52	0	4.09	1*	800	Р			
INR18650 3200mAh Cell #53	0	4.09	1*	800	Р			

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.
- No fire

Remark:

*: No location 2

D.2	TABLE: Internal AC resistance for coin cells					N/A
Samp	le no.	Ambient T (°C)	Store time (h)	Resistance Rac (Ω)	Re	sults 1)
Suppleme	Supplementary information:					

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

	TABLE: Critical co	mponents info	rmation		Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	rk(s) of nformity ¹⁾
Cell		INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh, INR18650 2800mAh, INR18650 3000mAh, INR18650 3000mAh, INR18650	INR18650 1200mAh: 3.7V, 1200mAh, 4.44Wh, INR18650 1300mAh: 3.7V, 1300mAh, 4.81Wh, INR18650 1500mAh: 3.7V, 1500mAh, 5.55Wh, INR18650 1800mAh: 3.7V, 1800mAh, 6.66Wh, INR18650 2000mAh 3.7V, 2000mAh, 7.4Wh, INR18650 2200mAh: 3.7V, 2200mAh, 8.14Wh, INR18650 2500mAh: 3.7V, 2500mAh, 9.25Wh, INR18650 2600mAh: 3.7V, 2600mAh, 9.62Wh, INR18650 2800mAh: 3.7V, 2800mAh, 10.36Wh INR18650 3000mAh: 3.7V, 3000mAh, 11.1Wh, INR18650 3200mAh 3.7V, 3200mAh, 11.84Wh	IEC 62133- 2:2017, IEC 62133- 2:2017/AMD1: 2021	ted with liance
-Positive electrode	GEM(WUXI)ENE RGY MATERIAL Co., Ltd	L8350A	Material: Li(Ni ₈ Co ₁ Mn ₁)O ₂ , Particle size D50(µm): 10±1.5µm, Specific surface area (m²/g): 0.55±0.20, Tap density (g/cm³): 2.6±0.40g/cm³		
	Hubei saijie New material co.,LTd	MSL-01	Material: LiMn ₂ O ₄ , Particle size D50(μm): 10±3, Specific surface area (m²/g): 0.7±0.3, Tap density (g/cm³): ≥1.8g/cm³		
-Negative electrode	Jiao zuo Rongchuang Graphite Technology Co., Ltd	J-002J	Material: Graphite, C content: ≥99.9%, Particle size D50(µm): 12.5~16.5, Specific surface area (m²/g) ≤3.0		

		I	EC 62133-2			
Clause	Requirement + Test	1		Result - R	Remark	Verdict
-Separator	Jiangxi Yutu new material Co., LTD	61*0.016mm	Material: PE, Ail permeability (s/150-280, The possible 38%~46%, Pun strength ≥400gf shutdown tempos	100MI): orosity is cture		
-Electrolyte	Enchem Tianrun New Energy Materials (Shandong)Co., LTD	TR-CJ5C04S	Composition: LiPF ₆ +Solution, Conductivity (M: 11±0.5, H ₂ O<20 HF≤50ppm	s/cm²):		
-Case	Taixing Zhongfang Xingtai New Materials Co., Ltd.	17.71*18.15* 68.3*0.22mm	Nylon, Aluminur thickness: 0.22r			
	ary information:	e agreed level o	f compliance. See	e OD-CB20	039.	

--End of Report--

ATTACHMENT to IEC62133_2C				
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(2020-07)

TRF template used:.....: IECEE OD-2020-F3:2022, Ed. 1.2

Attachment Form No. KR_ND_IEC62133_2C

Attachment Originator: KTR

Master Attachment..... 2023-08-02

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	National Differences		
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 ½ A, to a final discharge voltage specified by the manufacturer. Sample batteries shall then be charged at a constant current of 2,0 ½ 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 ½ 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 ½ A, (e.g., quick charging power bank, etc.)		N/A

	ATTACHMENT to IEC6213	33_2C	
Clause	Requirement + Test	Result - Remark	Verdict
	[Replace to the following statement]		
	c) Acceptance criteria Filling beyond the manufacturer's specified limits should not result in ignition 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		_

ATTACHMENT to IEC62133_2C					
Clause	Requirement + Test	Result - Remark	Verdict		
(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.	250.6Wh / L for model INR18650 1200mAh, 271.5Wh / L for model INR18650 1300mAh, 313.3Wh / L for model INR18650 1500mAh, 375.9Wh / L for model INR18650 1800mAh, 417.7Wh / L for model INR18650 2000mAh, 459.5Wh / L for model INR18650 2200mAh, 522.1Wh / L for model INR18650 2500mAh, 543.0Wh / L for model INR18650 2600mAh, 584.8Wh / L for model INR18650 2800mAh, 626.6Wh / L for model INR18650 3000mAh, 626.6Wh / L for model INR18650 3000mAh, 668.3Wh / L for model INR18650 3200mAh			

	ATTACHMENT to IEC62133_2C				
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) W: Width (max.) of cell L: Length (L) × Width (W) × 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) = Nominal voltage (V) × Rated capacity (Ah) Length (L) × Width (W) × Thickness (T) [H.2 — Prismatic cell using hard case] D: Diameter (max.) of cell L: Length (max.) of cell L: Length (max.) of cell CAccording 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) = Nominal voltage (V) × Rated capacity (Ah) 3.14159 × Diameter (D) ² × Length(L) [H.3 — Cylindrical cell using hard case]				

Photo Documentation

Page 1 of 11

Report No. CN24DKR2 001

Product: Rechargeable Li-ion Cell

<u>Type Designation:</u> INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 1800mAh,

INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh,

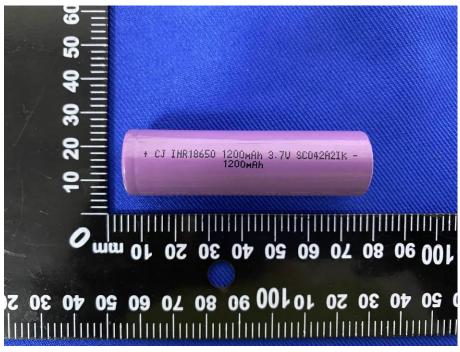


Figure 1 Side view of cell (For model: INR18650 1200mAh)

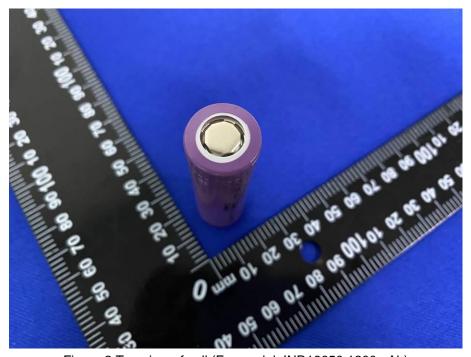


Figure 2 Top view of cell (For model: INR18650 1200mAh)

Photo Documentation

Page 2 of 11

Report No. CN24DKR2 001

<u>Product:</u> Rechargeable Li-ion Cell

<u>Type Designation:</u> INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 1800mAh,

INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh,

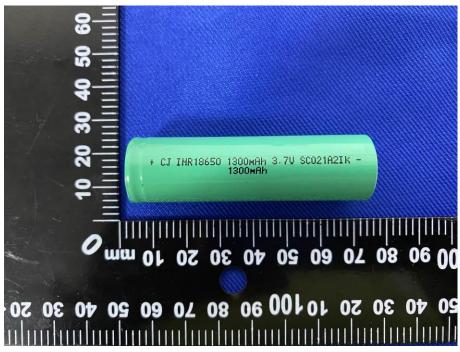


Figure 3 Side view of cell (For model: INR18650 1300mAh)

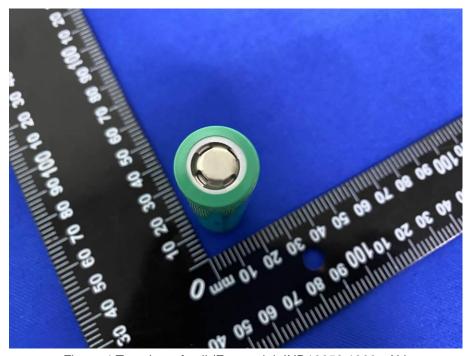


Figure 4 Top view of cell (For model: INR18650 1300mAh)

Photo Documentation

Page 3 of 11

Report No. CN24DKR2 001

<u>Product:</u> Rechargeable Li-ion Cell

<u>Type Designation:</u> INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 1800mAh,

INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh,

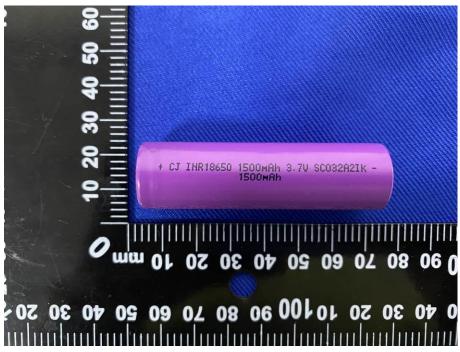


Figure 5 Side view of cell (For model: INR18650 1500mAh)

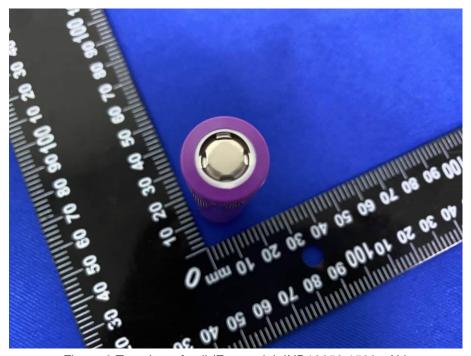


Figure 6 Top view of cell (For model: INR18650 1500mAh)

Photo Documentation

Page 4 of 11

Report No. CN24DKR2 001

<u>Product:</u> Rechargeable Li-ion Cell

<u>Type Designation:</u> INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 1800mAh,

INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh,

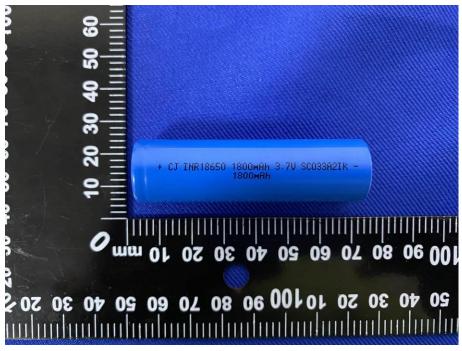


Figure 7 Side view of cell (For model: INR18650 1800mAh)

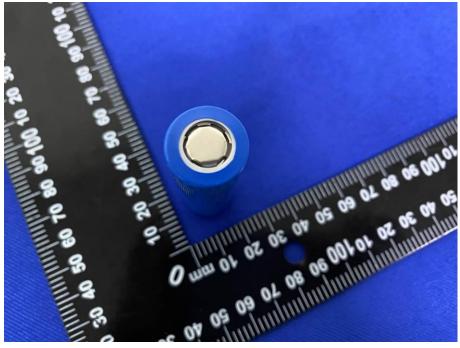


Figure 8 Top view of cell (For model: INR18650 1800mAh)

Photo Documentation

Page 5 of 11

Report No. CN24DKR2 001

Product: Rechargeable Li-ion Cell

<u>Type Designation:</u> INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 1800mAh,

INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh,

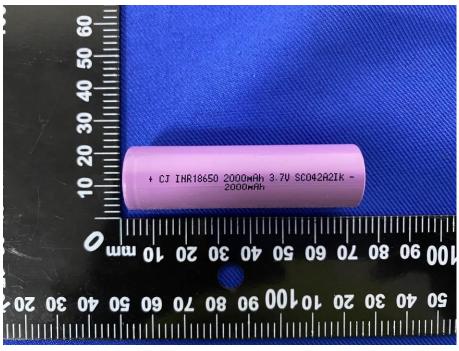


Figure 9 Side view of cell (For model: INR18650 2000mAh)

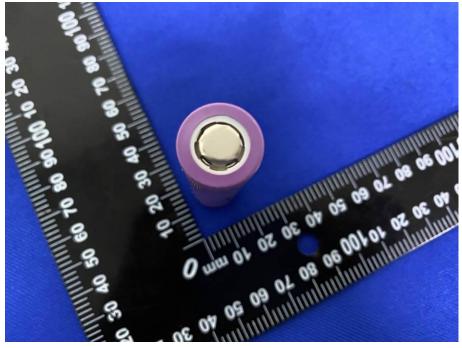


Figure 10 Top view of cell (For model: INR18650 2000mAh)

Photo Documentation

Page 6 of 11

Report No. CN24DKR2 001

<u>Product:</u> Rechargeable Li-ion Cell

<u>Type Designation:</u> INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 1800mAh,

INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh,



Figure 11 Side view of cell (For model: INR18650 2200mAh)

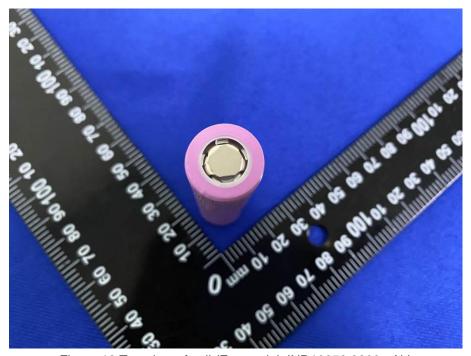


Figure 12 Top view of cell (For model: INR18650 2200mAh)

Photo Documentation

Page 7 of 11

Report No. CN24DKR2 001

Product: Rechargeable Li-ion Cell

<u>Type Designation:</u> INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 1800mAh,

INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh,

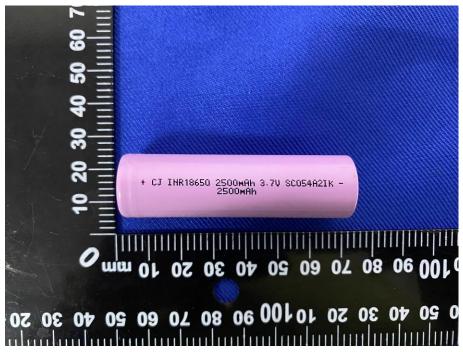


Figure 13 Side view of cell (For model: INR18650 2500mAh)

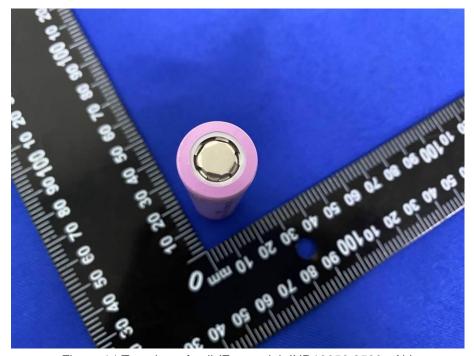


Figure 14 Top view of cell (For model: INR18650 2500mAh)

Photo Documentation

Page 8 of 11

Report No. CN24DKR2 001

Product: Rechargeable Li-ion Cell

<u>Type Designation:</u> INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 1800mAh, INR18650 1500mAh, INR18650 1800mAh, INR1860 1800mAh,

INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh,

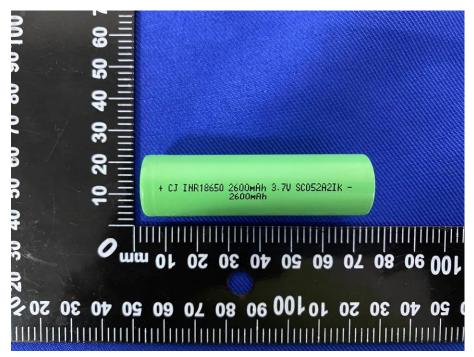


Figure 15 Side view of cell (For model: INR18650 2600mAh)

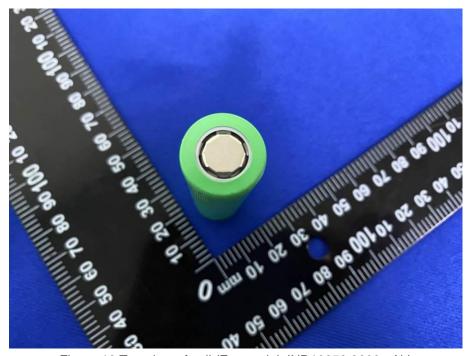


Figure 16 Top view of cell (For model: INR18650 2600mAh)

Photo Documentation

Page 9 of 11

Report No. CN24DKR2 001

Product: Rechargeable Li-ion Cell

<u>Type Designation:</u> INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 1800mAh, INR18650 1500mAh, INR18650 1800mAh, INR1860 1800mAh,

INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh,

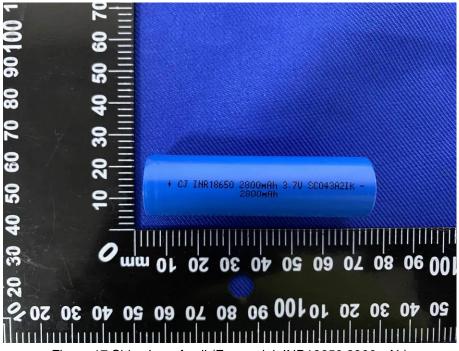


Figure 17 Side view of cell (For model: INR18650 2800mAh)

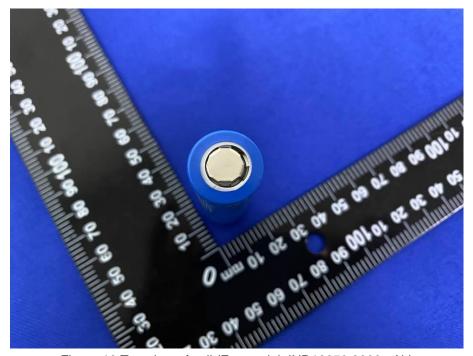


Figure 18 Top view of cell (For model: INR18650 2800mAh)

Photo Documentation

Page 10 of 11

Report No. CN24DKR2 001

Product: Rechargeable Li-ion Cell

<u>Type Designation:</u> INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 1800mAh,

INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh,

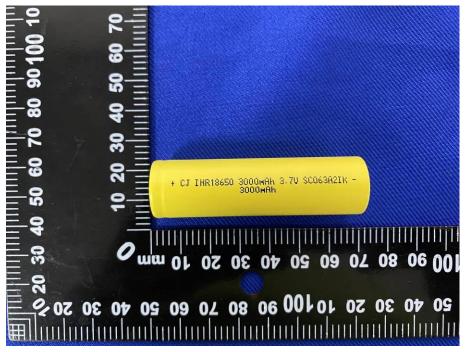


Figure 19 Side view of cell (For model: INR18650 3000mAh)

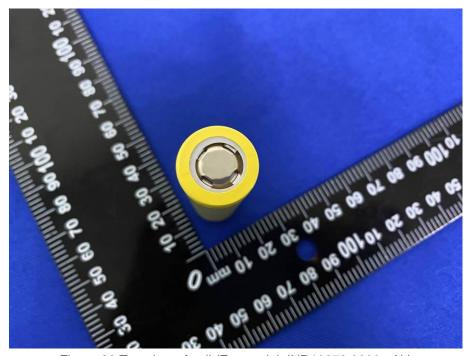


Figure 20 Top view of cell (For model: INR18650 3000mAh)

Photo Documentation

Page 11 of 11

Report No. CN24DKR2 001

Product: Rechargeable Li-ion Cell

<u>Type Designation:</u> INR18650 1200mAh, INR18650 1300mAh, INR18650 1500mAh, INR18650 1800mAh,

INR18650 2000mAh, INR18650 2200mAh, INR18650 2500mAh, INR18650 2600mAh,



Figure 21 Side view of cell (For model: INR18650 3200mAh)

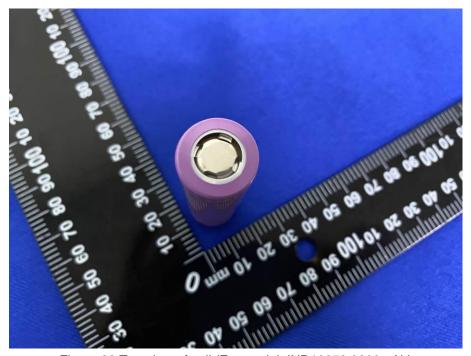


Figure 22 Top view of cell (For model: INR18650 3200mAh)