



Test Report

Application information:

Applicant name:	
Address:	
Manufacturer:	
Address:	

Sample information:

Sample Name:	Cylindrical lithium-ion rechargeable cell
Sample Model:	IMR18650-2000mAh
Trade mark:	N/A
Sample Received Date:	Dec. 02, 2024
Testing Period:	Dec. 02, 2024 ~ Dec. 06, 2024
Test Requested:	As specified by Regulation (EU) 2023/1542- Heavy Metals Content in batteries and waste batteries.
Test Method:	Please refer to next page.
Test Results	Please refer to next page(s).
Conclusion:	Based on the performed tests on submitted sample(s), the results Comply with the Regulation (EU) 2023/1542- Heavy Metals Content in batteries and waste batteries.

Completed by:Han Ma**Reviewed by:**Lei Zhang**Approved by:**Kevin Yang
Technical Manager**Shenzhen HTT Technology Co., Ltd.**



Test Report

Test Result:**Regulation (EU) 2023/1542- Heavy Metals Content in batteries and waste batteries.**

Tested Item(s)	Unit	Limit	MDL	Result
Lead(Pb)	mg/kg	100	2	N.D.
Cadmium(Cd)	mg/kg	20	2	N.D.
Mercury(Hg)	mg/kg	5	2	N.D.

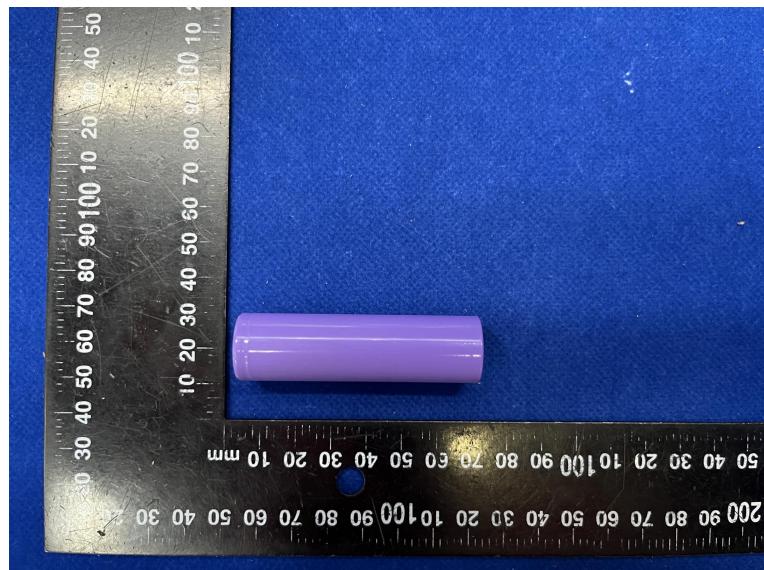
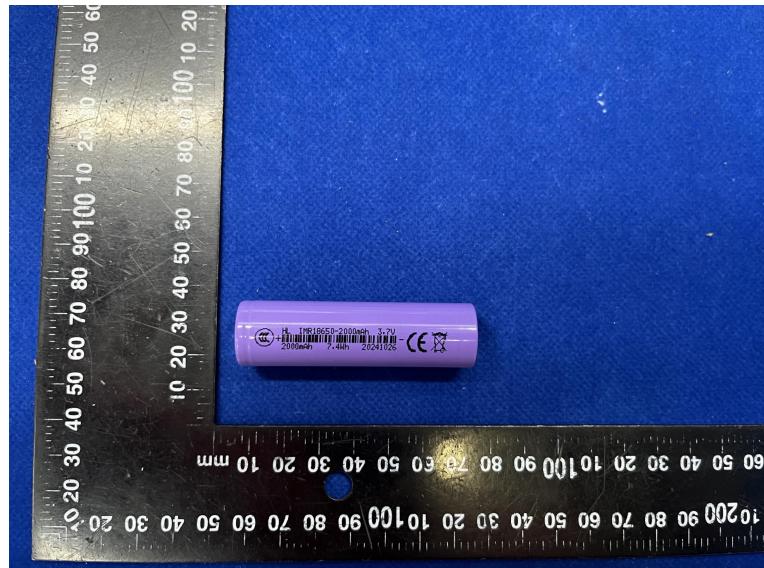
Note:

- (1) MDL = Method Detection Limit
- (2) N.D. =Not Detected(<MDL)
- (3) mg/kg = ppm =parts per million
- (4) Batteries, accumulators and button cells containing more than 0.0005 % mercury, more than 0.002 % cadmium or more than 0.01 % lead, shall be marked with the chemical symbol for the metal concerned: Hg, Cd or Pb.



Test Report

Photo(s) of the sample(s)



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*** End of report ***



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..... : CN24QT7I 003

Date of issue..... : 2025-01-02

Total number of pages : 6 pages

**Name of Testing Laboratory
preparing the Report** : Guangzhou MCM Certification & Testing Co., Ltd.

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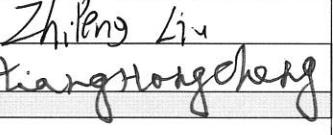
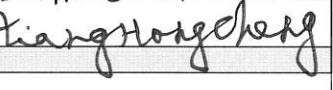
If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

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

General disclaimer:

The test results presented in this report relate only to the object tested.

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

Test item description	Cylindrical Lithium-ion Rechargeable Cell	
Trade Mark(s).....	N/A	
Manufacturer.....	Same as applicant	
Model/Type reference	IMR18650-2000mAh	
Ratings	3.7V, 2000mAh, 7.4Wh	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/> CB Testing Laboratory:	Guangzhou MCM Certification & Testing Co., Ltd.	
Testing location/ address	Room 101 to 116 & 216, Building 2 (Office Building and Workshop)No. 45 Zhong Er Section of Shiguang Road, Zhongcun Street, Panyu District, Guangzhou City, Guangdong Province, China	
Tested by (name, function, signature)	Zhipeng Liu (Engineer)	
Approved by (name, function, signature)..	Liang Hongcheng (Authorizer)	
<input type="checkbox"/> Testing procedure: CTF Stage 1:		
Testing location/ address		
Tested by (name, function, signature)		
Approved by (name, function, signature)..		
<input type="checkbox"/> Testing procedure: CTF Stage 2:		
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name, function, signature).:		
Approved by (name, function, signature)..		
<input type="checkbox"/> Testing procedure: CTF Stage 3:		
<input type="checkbox"/> Testing procedure: CTF Stage 4:		
Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature).:		
Approved by (name, function, signature)..		
Supervised by (name, function, signature) :		

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

- Attachment 1: Photo Documentation (3 pages)

Also see attachments in original report CN24QT7I 001 and CN24QT7I 002.

Summary of testing:

Tests performed (name of test and test clause): N/A	Testing location: N/A
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Summary of compliance with National Differences (List of countries addressed):

See original report CN24QT7I 001 and CN24QT7I 002.

The product fulfils the requirements of EN 62133-2:2017, EN 62133-2:2017/A1:2021, SASO-IEC-62133-2.

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:

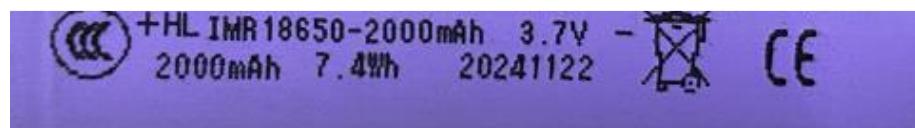
The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.

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:

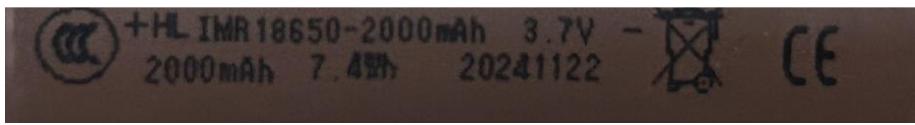
The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Label for appearance 1



Label for appearance 2



Label for appearance 3

Remark: The agreement about marking plate between battery pack manufacturer and cell factory provided.

Test item particulars.....:	
Classification of installation and use.....: To be defined in final product	
Supply Connection : DC Terminal	
Recommend charging method declared by the manufacturer : Charging the cell with 400mA constant current until 4.2V, then constant voltage until charge current reduces to 40mA at ambient 20°C±5°C.	
Discharge current (0,2 It A) : 400mA	
Specified final voltage.....: 3.0V	
Upper limit charging voltage per cell.....: 4.2V	
Maximum charging current.....: 1000mA	
Charging temperature upper limit : 45°C	
Charging temperature lower limit.....: 0°C	
Polymer cell electrolyte type.....: <input type="checkbox"/> gel polymer <input type="checkbox"/> solid polymer <input checked="" type="checkbox"/> 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 : N/A	
Date (s) of performance of tests : N/A	
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report.	
"(See appended table)" refers to a table appended to the report.	
Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC62133-2:	
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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 test report shall be read in conjunction with the original report CN24QT7I 001 and CN24QT7I 002.

Description of change(s):

1. Add three appearances for the cell, and the marking and colour are different from the original report CN24QT7I 001 and CN24QT7I 002. Details see page 4 and Attachment 1.

For the above described change(s) the following was considered to be necessary:

Change	Testing	Comments	Result
1	N/A	No safety impact, no further testing considered as necessary.	P

History of amendments and modifications:

Ref. No. CN24QT7I 001, dated 2024-03-21 (original test report)

Ref. No. CN24QT7I 002, dated 2024-08-15 (1st amendment)

Ref. No. CN24QT7I 003, dated 2025-01-02 (1st modification)

-- End of Report --

Product: Cylindrical Lithium-ion Rechargeable Cell

Type Designation: IMR18650-2000mAh



Figure 1 Front view of cell (Appearance 1)



Figure 2 Side view of cell (Appearance 1)

Product: Cylindrical Lithium-ion Rechargeable Cell

Type Designation: IMR18650-2000mAh



Figure 3 Front view of cell (Appearance 2)

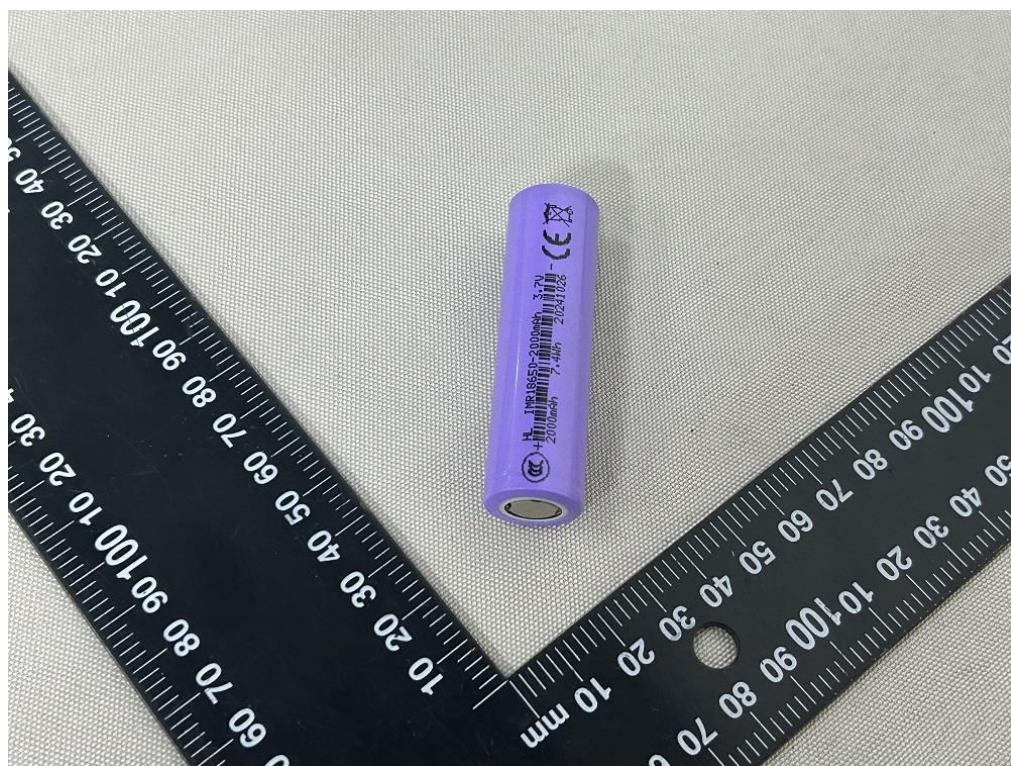


Figure 4 Side view of cell (Appearance 2)

Product: Cylindrical Lithium-ion Rechargeable Cell

Type Designation: IMR18650-2000mAh



Figure 5 Front view of cell (Appearance 3)



Figure 6 Side view of cell (Appearance 3)