

TEST REPORT

Report No.: DPHTL2508122025E

Date: Aug 18,2025

Page 1 of 3

Applicant:

Address:

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Cylindrical Lithium-ion Rechargeable Cell

Model: HYLN IMR18650-2000mAh

Description: 2000mAh

Receiving Date: Aug 12,2025

Test Period: From Aug 12,2025 to Aug 15,2025

Add Information: -

Test Summary:

#	Test item(s)	Conclusion
1	Mercury, Cadmium and Lead Content - Regulation (EU) 2023/1542	PASS

*****Please refer to the following page for detailed results*****

Authorized Signatory

Mark Mai
(Technical Director)



TEST REPORT

Report No.: DPHTL2508122025E

Date: Aug 18,2025

Page 2 of 3

Result:

1. Mercury, Cadmium and Lead Content - Regulation (EU) 2023/1542 IEC 62321-4:2013+A1:2017, IEC 62321-5:2013,determined by ICP-OES

Test item(s)	Result		Limit* (%)	MDL (%)
	1			
1	Mercury (Hg)	N.D.	0.0005	0.0005
2	Cadmium (Cd)	N.D.	0.002	0.001
3	Lead (Pb)	N.D.	0.01	0.001
-	Conclusion	PASS	-	-

Remark(s): (a) MDL: Method detected limit
(b) N.D.: Not detected (result is less than MDL)
(c) Results shown are of total weight of the battery sample
(d) *=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

Material List:

Material #	Sample Description/Position
1	Battery

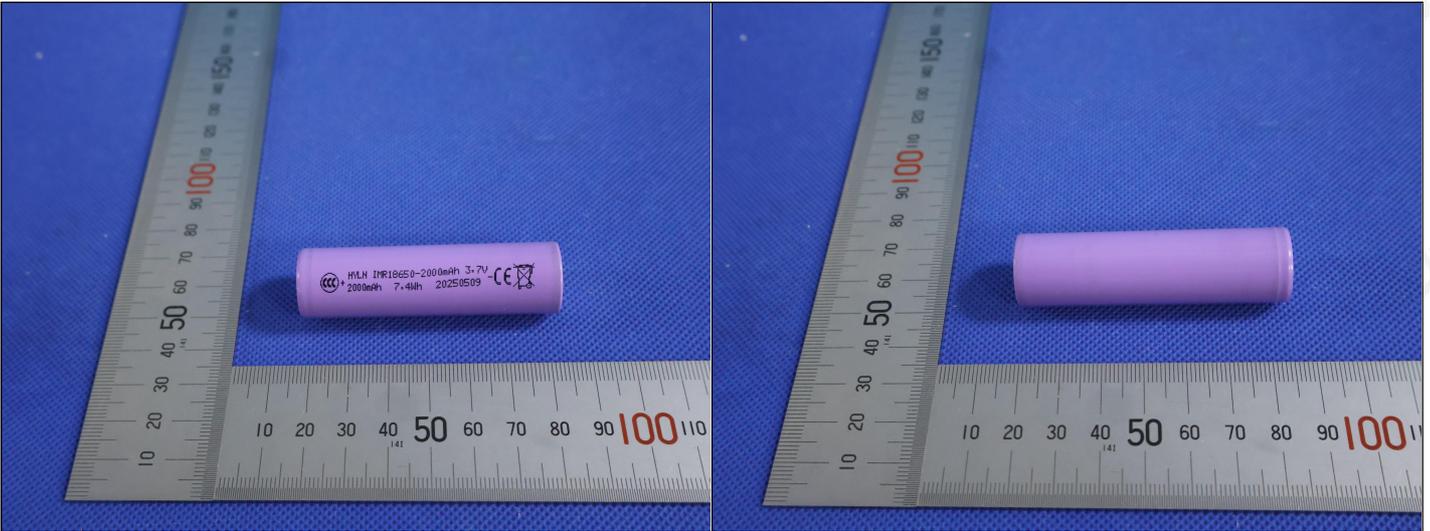
TEST REPORT

Report No.: DPHTL2508122025E

Date: Aug 18,2025

Page 3 of 3

Photo:



Test Sample Photo

---<<< <<< END OF REPORT >>> >>>---

声明

Statement

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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. : CN25IGVO 001
Date of issue..... : 2025-05-20
Total number of pages : 37 pages

Name of Testing Laboratory preparing the Report..... : CMC Testing International (Shenzhen) 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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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 :	1) HYLN IMR18650-3000mAh, 2) HYLN IMR18650-2600mAh, 3) HYLN IMR18650-2500mAh, 4) HYLN IMR18650-2200mAh, 5) HYLN IMR18650-2000mAh, 6) HYLN IMR18650-1800mAh, 7) HYLN IMR18650-1500mAh, 8) HYLN IMR18650-1300mAh, 9) HYLN IMR18650-1200mAh, 10) HYLN IMR18650-800mAh	
Ratings :	1) 3.7V, 3000mAh, 11.1Wh; 2) 3.7V, 2600mAh, 9.62Wh; 3) 3.7V, 2500mAh, 9.25Wh; 4) 3.7V, 2200mAh, 8.14Wh; 5) 3.7V, 2000mAh, 7.4Wh; 6) 3.7V, 1800mAh, 6.66Wh; 7) 3.7V, 1500mAh, 5.55Wh; 8) 3.7V, 1300mAh, 4.81Wh; 9) 3.7V, 1200mAh, 4.44Wh; 10) 3.7V, 800mAh, 2.96Wh;	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/> CB Testing Laboratory:	CMC Testing International (Shenzhen) Co., Ltd.	
Testing location/ address:	1-3/F., Building 7, He'er Hongben Industrial Zone, Dawangshan Community, Shajing Subdistrict, Baoan District, Shenzhen, Guangdong, China	
Tested by (name, function, signature):	Yuki Wang (Project Engineer)	<i>Yuki Wang</i>
Approved by (name, function, signature) ...:	Barry He (Reviewer)	<i>Barry He</i>
<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) :		

<p>List of Attachments (including a total number of pages in each attachment): Attachment 1: (Republic of Korea) NATIONAL DIFFERENCES (4 pages) Attachment 2: Photo documentation (8 pages)</p>	
<p>Summary of testing:</p>	
<p>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)</p> <p>Tests are made with the number of cells specified in IEC 62133-2:2017, IEC 62133-2:2017/AMD1:2021 Table 1.</p>	<p>Testing location: CMC Testing International (Shenzhen) Co., Ltd. 1-3/F., Building 7, He'er Hongben Industrial Zone, Dawangshan Community, Shajing Subdistrict, Baoan District, Shenzhen, Guangdong, China</p>
<p>Summary of compliance with National Differences (List of countries addressed): KR KR= Korea, Republic of</p>	
<p>Use of uncertainty of measurement for decisions on conformity (decision rule):</p> <p><input checked="" type="checkbox"/> 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").</p> <p><input type="checkbox"/> Other:... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)</p> <p>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.</p>	

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.

Cylindrical Lithium-ion Rechargeable Cell
HYLN IMR18650-3000mAh
+ 3.7V 3000mAh 11.1Wh -
IMR19/66 Date: YYYYMMDD

Label 1 for model HYLN IMR18650-3000mAh

Cylindrical Lithium-ion Rechargeable Cell
HYLN IMR18650-2500mAh
+ 3.7V 2500mAh 9.25Wh -
IMR19/66 Date: YYYYMMDD

Label 2 for model HYLN IMR18650-2500mAh

Cylindrical Lithium-ion Rechargeable Cell
HYLN IMR18650-2000mAh
+ 3.7V 2000mAh 7.4Wh -
IMR19/66 Date: YYYYMMDD

Label 3 for model HYLN IMR18650-2000mAh

Cylindrical Lithium-ion Rechargeable Cell
HYLN IMR18650-1800mAh
+ 3.7V 1800mAh 6.66Wh -
IMR19/66 Date: YYYYMMDD

Label 4 for model HYLN IMR18650-1800mAh

Cylindrical Lithium-ion Rechargeable Cell

HYLN IMR18650-1500mAh

+ 3.7V 1500mAh 5.55Wh -

IMR19/66 Date: YYYYMMDD

Label 5 for model HYLN IMR18650-1500mAh

Cylindrical Lithium-ion Rechargeable Cell

HYLN IMR18650-1300mAh

+ 3.7V 1300mAh 4.81Wh -

IMR19/66 Date: YYYYMMDD

Label 6 for model HYLN IMR18650-1300mAh

Cylindrical Lithium-ion Rechargeable Cell

HYLN IMR18650-1200mAh

+ 3.7V 1200mAh 4.44Wh -

IMR19/66 Date: YYYYMMDD

Label 7 for model HYLN IMR18650-1200mAh

Cylindrical Lithium-ion Rechargeable Cell

HYLN IMR18650-800mAh

+ 3.7V 800mAh 2.96Wh -

IMR19/66 Date: YYYYMMDD

Label 8 for model HYLN IMR18650-800mAh

Remark:

For the date code "YYYYMMDD":

"YYYY" represents the year of manufacture

"MM" represents the month of manufacture

"DD" represents the day of manufacture

For example, 20250320 means the production date is March 20, 2025.

The date code varies with the actual production time.

Due to similarity of the marking plate, only label of eight representative models listed.

Test item particulars	
Classification of installation and use.....	To be defined in final product
Supply Connection	Electrode plate
Recommend charging method declared by the manufacturer.....	Charging the cell with 0.2C constant current and 4.2V constant voltage until the current reduces to 0.02C at ambient 20±5°C
Discharge current (0,2 It A).....	HYLN IMR18650-3000mAh: 600mA HYLN IMR18650-2600mAh: 520mA HYLN IMR18650-2500mAh: 500mA HYLN IMR18650-2200mAh: 440mA HYLN IMR18650-2000mAh: 400mA HYLN IMR18650-1800mAh: 360mA HYLN IMR18650-1500mAh: 300mA HYLN IMR18650-1300mAh: 260mA HYLN IMR18650-1200mAh: 240mA HYLN IMR18650-800mAh: 160mA
Specified final voltage.....	3.0V
Upper limit charging voltage per cell.....	4.2V
Maximum charging current.....	0.5C
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.....	2025-02-20
Date (s) of performance of tests	2025-02-25 to 2025-05-14
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 IEC60068-2-2:	
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:

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

The ten models (Model name: HYLN IMR18650-3000mAh, HYLN IMR18650-2600mAh, HYLN IMR18650-2500mAh, HYLN IMR18650-2200mAh, HYLN IMR18650-2000mAh, HYLN IMR18650-1800mAh, HYLN IMR18650-1500mAh, HYLN IMR18650-1300mAh, HYLN IMR18650-1200mAh, HYLN IMR18650-800mAh) are identical (same shape, same chemical system, using same material), except the model name and the capacity. The tested models HYLN IMR18650-3000mAh, HYLN IMR18650-2500mAh, HYLN IMR18650-2000mAh, HYLN IMR18650-1800mAh, HYLN IMR18650-1500mAh, HYLN IMR18650-1300mAh, HYLN IMR18650-1200mAh, HYLN IMR18650-800mAh.

Remark:

The product was also evaluated to fulfil the requirements of EN 62133-2:2017, EN 62133-2:2017/A1:2021.

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	Final Voltage
HYLN IMR18650-3000mAh	3000mAh	3.7V	600mA	600mA	1500mA	1500mA	4.2V	3.0V
HYLN IMR18650-2600mAh	2600mAh	3.7V	520mA	520mA	1300mA	1300mA	4.2V	3.0V
HYLN IMR18650-2500mAh	2500mAh	3.7V	500mA	500mA	1250mA	1250mA	4.2V	3.0V
HYLN IMR18650-2200mAh	2200mAh	3.7V	440mA	440mA	1100mA	1100mA	4.2V	3.0V
HYLN IMR18650-2000mAh	2000mAh	3.7V	400mA	400mA	1000mA	1000mA	4.2V	3.0V
HYLN IMR18650-1800mAh	1800mAh	3.7V	360mA	360mA	900mA	900mA	4.2V	3.0V
HYLN IMR18650-1500mAh	1500mAh	3.7V	300mA	300mA	750mA	750mA	4.2V	3.0V
HYLN IMR18650-1300mAh	1300mAh	3.7V	260mA	260mA	650mA	650mA	4.2V	3.0V
HYLN IMR18650-1200mAh	1200mAh	3.7V	240mA	240mA	600mA	600mA	4.2V	3.0V
HYLN IMR18650-800mAh	800mAh	3.7V	160mA	160mA	400mA	400mA	4.2V	3.0V

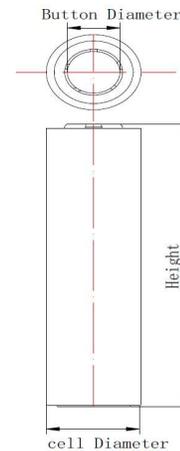
The main features of the cell are shown as below (clause 7.1.2):

Model	Upper limit charge voltage	Taper-off current	Lower charge temperature	Upper charge temperature
HYLN IMR18650- 3000mAh	4.2V	150mA	0°C	45°C
HYLN IMR18650- 2600mAh	4.2V	130mA	0°C	45°C
HYLN IMR18650- 2500mAh	4.2V	125mA	0°C	45°C
HYLN IMR18650- 2200mAh	4.2V	110mA	0°C	45°C
HYLN IMR18650- 2000mAh	4.2V	100mA	0°C	45°C
HYLN IMR18650- 1800mAh	4.2V	90mA	0°C	45°C
HYLN- IMR18650- 1500mAh	4.2V	75mA	0°C	45°C
HYLN IMR18650- 1300mAh	4.2V	65mA	0°C	45°C
HYLN IMR18650- 1200mAh	4.2V	60mA	0°C	45°C
HYLN- IMR18650- 800mAh	4.2V	40mA	0°C	45°C

Construction

Cell diameter	Cell Height
mm	mm
18.15±0.3	65.0±0.5

Cell



Circuit diagram:
None, cell only.

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
4	PARAMETER MEASUREMENT TOLERANCES		P
	Parameter measurement tolerances		P
5	GENERAL SAFETY CONSIDERATIONS		P
5.1	General		P
	Cells and batteries so designed and constructed that they are safe under conditions of both intended use and reasonably foreseeable misuse		P
5.2	Insulation and wiring	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 MΩ		N/A
	Insulation resistance (MΩ)		—
	Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements		N/A
	Orientation of wiring maintains adequate clearances and creepage distances between conductors		N/A
	Mechanical integrity of internal connections accommodates reasonably foreseeable misuse		N/A
5.3	Venting		P
	Battery cases and cells incorporate a pressure relief mechanism or are constructed so that they relieve excessive internal pressure at a value and rate that will preclude rupture, explosion and self-ignition	Venting mechanism exists on top of the cylindrical cell.	P
	Encapsulation used to support cells within an outer casing does not cause the battery to overheat during normal operation nor inhibit pressure relief		N/A
5.4	Temperature, voltage and current management	Cell only.	N/A
	Batteries are designed such that abnormal temperature rise conditions are prevented		N/A
	Batteries are designed to be within temperature, voltage and current limits specified by the cell manufacturer		N/A
	Batteries are provided with specifications and charging instructions for equipment manufacturers so that specified chargers are designed to maintain charging within the temperature, voltage and current limits specified		N/A
5.5	Terminal contacts		P
	The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current	Electrode plate contacts complied with the requirements.	P

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

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

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	The manufacturer prepares and implements a quality plan that defines procedures for the inspection of materials, components, cells and batteries and which covers the whole process of producing each type of cell or battery	Complied. ISO 9001: 2015 certificate provided.	P
5.8	Battery safety components	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
	The internal resistance of coin cells are measured in accordance with Annex D. Coin cells with internal resistance less than or equal to 3 Ω are tested in accordance with Table 1	Not coin cells.	N/A
	Unless otherwise specified, tests are carried out in an ambient temperature of 20 °C \pm 5 °C		P
	The safety analysis of 5.6.1 identify those components of the protection circuit that are critical for short-circuit, overcharge and over discharge protection	Cell only.	N/A
	When conducting the short-circuit test, consideration is given to the simulation of any single fault condition that is likely to occur in the protecting circuit that would affect the short-circuit test	Cell only.	N/A
7	SPECIFIC REQUIREMENTS AND TESTS		P
7.1	Charging procedure for test purposes		P
7.1.1	First procedure		P
	This charging procedure applies to subclauses other than those specified in 7.1.2		P
	Unless otherwise stated in this document, the charging procedure for test purposes is carried out in an ambient temperature of 20 °C \pm 5 °C, using the method declared by the manufacturer	See page 7.	P
	Prior to charging, the battery has been discharged at 20 °C \pm 5 °C at a constant current of 0,2 It A down to a specified final voltage	See page 7.	P
7.1.2	Second procedure		P
	This charging procedure applies only to 7.3.1, 7.3.4, 7.3.5, and 7.3.9		P

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	After stabilization for 1 h to 4 h, at an ambient temperature of the highest test temperature and the lowest test temperature, respectively, as specified in Table 2, cells are charged by using the upper limit charging voltage and maximum charging current, until the charging current is reduced to 0,05 It A, using a constant current to constant voltage charging method	Charge temperature specified by manufacturer: 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)	Tested complied.	P
	Fully charged cells are subjected for 7 days to a charge using the charging method for current and standard voltage specified by the cell manufacturer	Charging for 7 days with 0.2C.	P
	Results: no fire, no explosion, no leakage..... :	(See appended table 7.2.1)	P
7.2.2	Case stress at high ambient temperature (battery)	Cell only.	N/A
	Oven temperature (°C)		—
	Results: no physical distortion of the battery case resulting in exposure of internal protective components and cells		N/A
7.3	Reasonably foreseeable misuse		P
7.3.1	External short-circuit (cell)	Tested complied.	P
	The cells were tested until one of the following occurred:		P
	- 24 hours elapsed; or		N/A
	- The case temperature declined by 20 % of the maximum temperature rise		P
	Results: no fire, no explosion	(See appended table 7.3.1)	P
7.3.2	External short-circuit (battery)	Cell only.	N/A
	The batteries were tested until one of the following occurred:		N/A
	- 24 hours elapsed; or		N/A
	- The case temperature declined by 20 % of the maximum temperature rise		N/A
	In case of rapid decline in short circuit current, the battery pack remained on test for an additional one hour after the current reached a low end steady state condition		N/A
	A single fault in the discharge protection circuit is conducted on one to four (depending upon the protection circuit) of the five samples before conducting the short-circuit test		N/A

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	A single fault applies to protective component parts such as MOSFET (metal oxide semiconductor field-effect transistor), fuse, thermostat or positive temperature coefficient (PTC) thermistor		N/A
	Results: no fire, no explosion		N/A
7.3.3	Free fall	Tested complied.	P
	Results: no fire, no explosion	No fire. No explosion	P
7.3.4	Thermal abuse (cells)	Tested complied.	P
	Oven temperature (°C)	130.2°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	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		N/A
7.3.7	Forced discharge (cells)	Tested complied.	P
	Discharge a single cell to the lower limit discharge voltage specified by the cell manufacturer	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

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

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		P
9.1	Cell marking		P
	Cells are marked as specified in IEC 61960, except coin cells	The cell is marked in accordance with IEC 61960, also see copy of marking plate.	P
	Coin cells whose external surface area is too small to accommodate the markings on the cells show the designation and polarity		N/A
	By agreement between the cell manufacturer and the battery and/or end product manufacturer, component cells used in the manufacture of a battery need not be marked		N/A
9.2	Battery marking	Cell only.	N/A
	Batteries are marked as specified in IEC 61960, except for coin batteries		N/A
	Coin batteries whose external surface area is too small to accommodate the markings on the batteries show the designation and polarity		N/A
	Batteries are marked with an appropriate caution statement		N/A
	- Terminals have clear polarity marking on the external surface of the battery, or		N/A
	- Not be marked with polarity markings if the design of the external connector prevents reverse polarity connections		N/A
9.3	Caution for ingestion of small cells and batteries		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

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	Cell only.	N/A
	The following information are marked on or supplied with the battery:		N/A
	- Storage and disposal instructions		N/A
	- Recommended charging instructions		N/A
10	PACKAGING AND TRANSPORT		N/A
	Packaging for coin cells are not be small enough to fit within the limits of the ingestion gauge of Figure 3	Not coin cells.	N/A
ANNEX A	CHARGING AND DISCHARGING RANGE OF SECONDARY LITHIUM ION CELLS FOR SAFE USE		P
A.1	General		P
A.2	Safety of lithium ion secondary battery	Complied.	P
A.3	Consideration on charging voltage	Complied.	P
A.3.1	General		P
A.3.2	Upper limit charging voltage	4.2V applied.	P
A.3.2.1	General		P
A.3.2.2	Explanation of safety viewpoint		P
A.3.2.3	Safety requirements, when different upper limit charging voltage is applied	4.2V applied.	P
A.4	Consideration of temperature and charging current		P
A.4.1	General		P
A.4.2	Recommended temperature range	See A.4.2.2.	P
A.4.2.1	General		P
A.4.2.2	Safety consideration when a different recommended temperature range is applied	Charging temperature declared by client is: 0-45°C.	P
A.4.3	High temperature range		N/A
A.4.3.1	General		N/A
A.4.3.2	Explanation of safety viewpoint		N/A
A.4.3.3	Safety considerations when specifying charging conditions in the high temperature range		N/A
A.4.3.4	Safety considerations when specifying a new upper limit in the high temperature range		N/A
A.4.4	Low temperature range		N/A

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
A.4.4.1	General		N/A
A.4.4.2	Explanation of safety viewpoint		N/A
A.4.4.3	Safety considerations, when specifying charging conditions in the low temperature range		N/A
A.4.4.4	Safety considerations when specifying a new lower limit in the low temperature range		N/A
A.4.5	Scope of the application of charging current		P
A.4.6	Consideration of discharge		P
A.4.6.1	General		P
A.4.6.2	Final discharge voltage and explanation of safety viewpoint	Cell specified final voltage 3.0V, not exceed 3.0V specified by cell manufacturer.	P
A.4.6.3	Discharge current and temperature range		P
A.4.6.4	Scope of application of the discharging current		P
A.5	Sample preparation		P
A.5.1	General		P
A.5.2	Insertion procedure for nickel particle to generate internal short		P
A.5.3	Disassembly of charged cell		P
A.5.4	Shape of nickel particle		P
A.5.5	Insertion of nickel particle in cylindrical cell		P
A.5.5.1	Insertion of nickel particle in winding core		P
A.5.5.2	Marking the position of the nickel particle on both ends of the winding core of the separator		P
A.5.6	Insertion of nickel particle in prismatic cell		N/A
A.6	Experimental procedure of the forced internal short-circuit test		P
A.6.1	Material and tools for preparation of nickel particle		P
A.6.2	Example of a nickel particle preparation procedure		P
A.6.3	Positioning (or placement) of a nickel particle		P
A.6.4	Damaged separator precaution		P
A.6.5	Caution for rewinding separator and electrode		P
A.6.6	Insulation film for preventing short-circuit		P
A.6.7	Caution when disassembling a cell		P
A.6.8	Protective equipment for safety		P
A.6.9	Caution in the case of fire during disassembling		P
A.6.10	Caution for the disassembling process and pressing the electrode core		P

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
A.6.11	Recommended specifications for the pressing device		P
ANNEX B	RECOMMENDATIONS TO EQUIPMENT MANUFACTURERS AND BATTERY ASSEMBLERS		N/A
ANNEX C	RECOMMENDATIONS TO THE END-USERS		N/A
ANNEX D	MEASUREMENT OF THE INTERNAL AC RESISTANCE FOR COIN CELLS		N/A
D.1	General		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		N/A
	Coin cells with an internal resistance less than or equal to 3 Ω are subjected to the testing according to Clause 6 and Table 1		N/A
ANNEX E	PACKAGING AND TRANSPORT		N/A
ANNEX F	COMPONENT STANDARDS REFERENCES		N/A

IEC 62133-2				
Clause	Requirement + Test		Result - Remark	Verdict
7.2.1	TABLE: Continuous charging at constant voltage (cells)			P
Sample No.	Recommended charging voltage Vc (Vdc)	Recommended charging current I _{rec} (A)	OCV before test (Vdc)	Results
For model: HYLN IMR18650-3000mAh				
SN250220056C001	4.20	0.6	4.18	A, B
SN250220056C002	4.20	0.6	4.20	A, B
SN250220056C003	4.20	0.6	4.19	A, B
SN250220056C004	4.20	0.6	4.19	A, B
SN250220056C005	4.20	0.6	4.19	A, B
For model: HYLN IMR18650-2500mAh				
SN250220057C001	4.20	0.5	4.19	A, B
SN250220057C002	4.20	0.5	4.19	A, B
SN250220057C003	4.20	0.5	4.19	A, B
SN250220057C004	4.20	0.5	4.18	A, B
SN250220057C005	4.20	0.5	4.19	A, B
For model: HYLN IMR18650-2000mAh				
SN250220005C001	4.20	0.40	4.19	A, B
SN250220005C002	4.20	0.40	4.18	A, B
SN250220005C003	4.20	0.40	4.19	A, B
SN250220005C004	4.20	0.40	4.19	A, B
SN250220005C005	4.20	0.40	4.19	A, B
For model: HYLN IMR18650-1800mAh				
SN250220058C001	4.20	0.36	4.19	A, B
SN250220058C002	4.20	0.36	4.19	A, B
SN250220058C003	4.20	0.36	4.19	A, B
SN250220058C004	4.20	0.36	4.19	A, B
SN250220058C005	4.20	0.36	4.19	A, B
For model: HYLN IMR18650-1500mAh				
SN250220011C001	4.20	0.30	4.19	A, B
SN250220011C002	4.20	0.30	4.19	A, B
SN250220011C003	4.20	0.30	4.19	A, B
SN250220011C004	4.20	0.30	4.19	A, B
SN250220011C005	4.20	0.30	4.19	A, B
For model: HYLN IMR18650-1300mAh				
SN250220059C001	4.20	0.26	4.19	A, B

IEC 62133-2				
Clause	Requirement + Test		Result - Remark	Verdict
SN250220059C002	4.20	0.26	4.19	A, B
SN250220059C003	4.20	0.26	4.19	A, B
SN250220059C004	4.20	0.26	4.19	A, B
SN250220059C005	4.20	0.26	4.19	A, B
For model: HYLN IMR18650-1200mAh				
SN250220060C001	4.20	0.24	4.19	A, B
SN250220060C002	4.20	0.24	4.19	A, B
SN250220060C003	4.20	0.24	4.19	A, B
SN250220060C004	4.20	0.24	4.19	A, B
SN250220060C005	4.20	0.24	4.19	A, B
For model: HYLN IMR18650-800mAh				
SN250220012C001	4.20	0.16	4.19	A, B
SN250220012C002	4.20	0.16	4.19	A, B
SN250220012C003	4.20	0.16	4.19	A, B
SN250220012C004	4.20	0.16	4.19	A, B
SN250220012C005	4.20	0.16	4.19	A, B
Supplementary information:				
A. No fire				
B. No explosion				

IEC 62133-2					
Clause	Requirement + Test			Result - Remark	Verdict
7.3.1	TABLE: External short circuit (cell)				P
Sample No.	Ambient (°C)	OCV at start of test (Vdc)	Resistance of circuit (mΩ)	Maximum case temperature rise ΔT (K)	Results
Samples charged at charging temperature upper limit (45°C)					
For model: HYLN IMR18650-3000mAh					
SN250220056C006	57.9	4.18	84.5	54.3	A, B
SN250220056C007	57.9	4.18	85.4	56.8	A, B
SN250220056C008	57.9	4.17	89.0	50.5	A, B
SN250220056C009	57.9	4.17	88.4	60.4	A, B
SN250220056C010	57.9	4.18	86.1	57.5	A, B
For model: HYLN IMR18650-2500mAh					
SN250220057C006	57.1	4.18	86.4	44.0	A, B
SN250220057C007	57.1	4.17	87.1	46.5	A, B
SN250220057C008	57.1	4.17	83.5	50.0	A, B
SN250220057C009	57.1	4.17	85.2	44.8	A, B
SN250220057C010	57.1	4.18	86.4	43.4	A, B
For model: HYLN IMR18650-2000mAh					
SN250220005C006	57.5	4.17	81.9	78.4	A, B
SN250220005C007	57.5	4.17	83.0	71.1	A, B
SN250220005C008	57.5	4.17	87.3	77.5	A, B
SN250220005C009	57.5	4.17	88.8	69.2	A, B
SN250220005C010	57.5	4.18	86.5	64.5	A, B
For model: HYLN IMR18650-1800mAh					
SN250220058C006	56.7	4.17	86.7	81.0	A, B
SN250220058C007	56.7	4.17	82.0	68.9	A, B
SN250220058C008	56.7	4.17	80.6	79.8	A, B
SN250220058C009	56.7	4.17	80.5	83.3	A, B
SN250220058C010	56.7	4.17	86.6	68.9	A, B
For model: HYLN IMR18650-1500mAh					
SN250220011C006	55.3	4.18	83.3	83.2	A, B
SN250220011C007	55.3	4.17	88.2	81.5	A, B
SN250220011C008	55.3	4.18	87.3	85.9	A, B
SN250220011C009	55.3	4.18	82.2	78.3	A, B
SN250220011C010	55.3	4.18	83.5	84.2	A, B
For model: HYLN IMR18650-1300mAh					

IEC 62133-2					
Clause	Requirement + Test			Result - Remark	Verdict
SN250220059C006	57.0	4.18	81.6	73.3	A, B
SN250220059C007	57.0	4.17	85.1	75.8	A, B
SN250220059C008	57.0	4.17	88.4	70.4	A, B
SN250220059C009	57.0	4.17	89.3	73.6	A, B
SN250220059C010	57.0	4.18	82.9	82.9	A, B
For model: HYLN IMR18650-1200mAh					
SN250220060C006	56.2	4.17	84.9	76.1	A, B
SN250220060C007	56.2	4.17	82.2	68.4	A, B
SN250220060C008	56.2	4.17	87.9	72.9	A, B
SN250220060C009	56.2	4.17	85.7	75.2	A, B
SN250220060C010	56.2	4.18	82.0	70.5	A, B
For model: HYLN IMR18650-800mAh					
SN250220012C006	54.9	4.17	82.8	70.8	A, B
SN250220012C007	54.9	4.17	86.2	73.2	A, B
SN250220012C008	54.9	4.18	88.5	70.8	A, B
SN250220012C009	54.9	4.18	85.0	67.0	A, B
SN250220012C010	54.9	4.17	83.4	64.3	A, B
Samples charged at charging temperature lower limit (0°C)					
For model: HYLN IMR18650-3000mAh					
SN250220056C011	57.2	4.14	85.9	52.0	A, B
SN250220056C012	57.2	4.14	83.8	55.7	A, B
SN250220056C013	57.2	4.14	80.6	57.1	A, B
SN250220056C014	57.2	4.14	84.3	51.1	A, B
SN250220056C015	57.2	4.14	88.2	57.2	A, B
For model: HYLN IMR18650-2500mAh					
SN250220057C011	56.6	4.15	87.5	44.0	A, B
SN250220057C012	56.6	4.15	84.3	54.8	A, B
SN250220057C013	56.6	4.14	80.5	46.4	A, B
SN250220057C014	56.6	4.14	81.8	47.6	A, B
SN250220057C015	56.6	4.15	80.9	54.3	A, B
For model: HYLN IMR18650-2000mAh					
SN250220005C011	57.1	4.15	81.3	71.2	A, B
SN250220005C012	57.1	4.14	89.0	73.3	A, B
SN250220005C013	57.1	4.14	80.5	70.9	A, B
SN250220005C014	57.1	4.15	82.0	70.8	A, B

IEC 62133-2					
Clause	Requirement + Test			Result - Remark	Verdict
SN250220005C015	57.1	4.15	82.0	62.4	A, B
For model: HYLN IMR18650-1800mAh					
SN250220058C011	56.4	4.15	80.2	73.4	A, B
SN250220058C012	56.4	4.15	85.1	76.6	A, B
SN250220058C013	56.4	4.15	86.3	66.0	A, B
SN250220058C014	56.4	4.15	82.2	71.6	A, B
SN250220058C015	56.4	4.14	84.2	76.8	A, B
For model: HYLN IMR18650-1500mAh					
SN250220011C011	55.2	4.14	88.1	79.0	A, B
SN250220011C012	55.2	4.14	86.2	80.3	A, B
SN250220011C013	55.2	4.15	87.9	73.2	A, B
SN250220011C014	55.2	4.15	83.7	83.8	A, B
SN250220011C015	55.2	4.15	83.0	84.9	A, B
For model: HYLN IMR18650-1300mAh					
SN250220059C011	55.8	4.15	85.6	72.8	A, B
SN250220059C012	55.8	4.15	82.4	75.7	A, B
SN250220059C013	55.8	4.14	81.6	72.9	A, B
SN250220059C014	55.8	4.14	87.3	71.6	A, B
SN250220059C015	55.8	4.15	88.0	69.0	A, B
For model: HYLN IMR18650-1200mAh					
SN250220060C011	56.3	4.14	86.8	71.0	A, B
SN250220060C012	56.3	4.14	89.6	70.4	A, B
SN250220060C013	56.3	4.15	80.7	77.1	A, B
SN250220060C014	56.3	4.15	89.9	71.8	A, B
SN250220060C015	56.3	4.15	86.2	74.6	A, B
For model: HYLN IMR18650-800mAh					
SN250220012C011	55.4	4.15	89.2	64.8	A, B
SN250220012C012	55.4	4.14	83.6	63.5	A, B
SN250220012C013	55.4	4.14	82.6	69.3	A, B
SN250220012C014	55.4	4.15	86.5	67.1	A, B
SN250220012C015	55.4	4.15	80.5	61.9	A, B
Supplementary information:					
A. No fire					
B. No explosion					

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

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

IEC 62133-2				
Clause	Requirement + Test		Result - Remark	Verdict
7.3.5	TABLE: Crush (cells)			P
Sample No.	OCV before test (Vdc)	OCV at removal of crushing force (Vdc)	Maximum force applied to the cell during crush (kN)	Results
Samples charged at charging temperature upper limit (45°C)				
For model: HYLN IMR18650-3000mAh				
SN250220056C029	4.18	4.17	13.09	A, B
SN250220056C030	4.17	4.17	13.08	A, B
SN250220056C031	4.17	4.17	13.06	A, B
SN250220056C032	4.18	4.18	13.14	A, B
SN250220056C033	4.17	4.17	13.03	A, B
For model: HYLN IMR18650-2500mAh				
SN250220057C029	4.17	4.17	13.06	A, B
SN250220057C030	4.17	4.17	13.12	A, B
SN250220057C031	4.17	4.16	13.02	A, B
SN250220057C032	4.18	4.17	13.09	A, B
SN250220057C033	4.18	4.18	13.04	A, B
For model: HYLN IMR18650-2000mAh				
SN250220005C029	4.18	4.18	13.15	A, B
SN250220005C030	4.18	4.18	13.10	A, B
SN250220005C031	4.17	4.17	13.06	A, B
SN250220005C032	4.18	4.18	13.13	A, B
SN250220005C033	4.18	4.18	13.02	A, B
For model: HYLN IMR18650-1800mAh				
SN250220058C029	4.17	4.17	13.03	A, B
SN250220058C030	4.18	4.18	13.10	A, B
SN250220058C031	4.18	4.18	13.04	A, B
SN250220058C032	4.17	4.17	13.12	A, B
SN250220058C033	4.17	4.17	13.05	A, B
For model: HYLN IMR18650-1500mAh				
SN250220011C029	4.18	4.18	13.25	A, B
SN250220011C030	4.17	4.17	13.21	A, B
SN250220011C031	4.18	4.18	13.04	A, B
SN250220011C032	4.18	4.18	13.14	A, B
SN250220011C033	4.17	4.17	13.12	A, B
For model: HYLN IMR18650-1300mAh				

IEC 62133-2				
Clause	Requirement + Test		Result - Remark	Verdict
SN250220059C029	4.18	4.18	13.23	A, B
SN250220059C030	4.18	4.18	13.24	A, B
SN250220059C031	4.17	4.17	13.13	A, B
SN250220059C032	4.18	4.18	13.24	A, B
SN250220059C033	4.18	4.18	13.16	A, B
For model: HYLN IMR18650-1200mAh				
SN250220060C029	4.17	4.17	13.04	A, B
SN250220060C030	4.18	4.18	13.19	A, B
SN250220060C031	4.18	4.18	13.14	A, B
SN250220060C032	4.17	4.17	13.01	A, B
SN250220060C033	4.18	4.18	13.07	A, B
For model: HYLN IMR18650-800mAh				
SN250220012C029	4.18	4.18	13.08	A, B
SN250220012C030	4.18	4.18	13.12	A, B
SN250220012C031	4.18	4.18	13.07	A, B
SN250220012C032	4.17	4.17	13.09	A, B
SN250220012C033	4.18	4.18	13.06	A, B
Samples charged at charging temperature lower limit (0°C)				
For model: HYLN IMR18650-3000mAh				
SN250220056C034	4.15	4.14	13.02	A, B
SN250220056C035	4.14	4.14	13.16	A, B
SN250220056C036	4.14	4.13	13.03	A, B
SN250220056C037	4.15	4.15	13.11	A, B
SN250220056C038	4.14	4.14	13.05	A, B
For model: HYLN IMR18650-2500mAh				
SN250220057C034	4.15	4.15	13.11	A, B
SN250220057C035	4.15	4.14	13.13	A, B
SN250220057C036	4.14	4.14	13.06	A, B
SN250220057C037	4.14	4.14	13.05	A, B
SN250220057C038	4.15	4.15	13.08	A, B
For model: HYLN IMR18650-2000mAh				
SN250220005C034	4.15	4.15	13.02	A, B
SN250220005C035	4.14	4.14	13.17	A, B
SN250220005C036	4.14	4.14	13.03	A, B
SN250220005C037	4.14	4.14	13.14	A, B

IEC 62133-2				
Clause	Requirement + Test		Result - Remark	Verdict
SN250220005C038	4.14	4.14	13.11	A, B
For model: HYLN IMR18650-1800mAh				
SN250220058C034	4.15	4.15	13.20	A, B
SN250220058C035	4.15	4.15	13.11	A, B
SN250220058C036	4.14	4.14	13.20	A, B
SN250220058C037	4.14	4.14	13.04	A, B
SN250220058C038	4.15	4.15	13.16	A, B
For model: HYLN IMR18650-1500mAh				
SN250220011C034	4.15	4.15	13.15	A, B
SN250220011C035	4.15	4.15	13.18	A, B
SN250220011C036	4.14	4.14	13.08	A, B
SN250220011C037	4.15	4.15	13.11	A, B
SN250220011C038	4.14	4.14	13.24	A, B
For model: HYLN IMR18650-1300mAh				
SN250220059C034	4.14	4.14	13.18	A, B
SN250220059C035	4.15	4.15	13.10	A, B
SN250220059C036	4.14	4.14	13.24	A, B
SN250220059C037	4.14	4.14	13.09	A, B
SN250220059C038	4.15	4.15	13.10	A, B
For model: HYLN IMR18650-1200mAh				
SN250220060C034	4.15	4.15	13.25	A, B
SN250220060C035	4.14	4.14	13.05	A, B
SN250220060C036	4.14	4.14	13.05	A, B
SN250220060C037	4.14	4.14	13.17	A, B
SN250220060C038	4.14	4.14	13.08	A, B
For model: HYLN IMR18650-800mAh				
SN250220012C034	4.15	4.15	13.14	A, B
SN250220012C035	4.15	4.15	13.04	A, B
SN250220012C036	4.15	4.15	13.16	A, B
SN250220012C037	4.15	4.15	13.21	A, B
SN250220012C038	4.14	4.14	13.07	A, B
Note: - A 13kN force applied at the longitudinal axis of cylindrical cells. No voltage abrupt drop occurred.				
Supplementary information:				
A. No fire				
B. No explosion				

IEC 62133-2				
Clause	Requirement + Test		Result - Remark	Verdict
7.3.6	TABLE: Over-charging of battery			N/A
Constant charging current (A)				—
Supply voltage (Vdc)				—
Sample No.	OCV before charging (Vdc)	Total charging time (minute)	Maximum outer case temperature (°C)	Results
Supplementary information:				

IEC 62133-2				
Clause	Requirement + Test	Result - Remark		Verdict
7.3.7	TABLE: Forced discharge (cells)			P
Sample No.	OCV before application of reverse charge (Vdc)	Measured reverse charge I_t (A)	Lower limit discharge voltage (Vdc)	Results
For model: HYLN IMR18650-3000mAh				
SN250220056C039	3.08	3.0	3.0	A, B
SN250220056C040	3.09	3.0	3.0	A, B
SN250220056C041	3.09	3.0	3.0	A, B
SN250220056C042	3.11	3.0	3.0	A, B
SN250220056C043	3.14	3.0	3.0	A, B
For model: HYLN IMR18650-2500mAh				
SN250220057C039	3.04	2.5	3.0	A, B
SN250220057C040	3.04	2.5	3.0	A, B
SN250220057C041	3.04	2.5	3.0	A, B
SN250220057C042	3.04	2.5	3.0	A, B
SN250220057C043	3.05	2.5	3.0	A, B
For model: HYLN IMR18650-2000mAh				
SN250220005C039	3.09	2.0	3.0	A, B
SN250220005C040	3.05	2.0	3.0	A, B
SN250220005C041	3.10	2.0	3.0	A, B
SN250220005C042	3.07	2.0	3.0	A, B
SN250220005C043	3.06	2.0	3.0	A, B
For model: HYLN IMR18650-1800mAh				
SN250220058C039	3.11	1.8	3.0	A, B
SN250220058C040	3.11	1.8	3.0	A, B
SN250220058C041	3.07	1.8	3.0	A, B
SN250220058C042	3.07	1.8	3.0	A, B
SN250220058C043	3.07	1.8	3.0	A, B
For model: HYLN IMR18650-1500mAh				
SN250220011C039	3.04	1.5	3.0	A, B
SN250220011C040	3.05	1.5	3.0	A, B
SN250220011C041	3.04	1.5	3.0	A, B
SN250220011C042	3.04	1.5	3.0	A, B
SN250220011C043	3.05	1.5	3.0	A, B
For model: HYLN IMR18650-1300mAh				

IEC 62133-2				
Clause	Requirement + Test		Result - Remark	Verdict
SN250220059C039	3.10	1.3	3.0	A, B
SN250220059C040	3.11	1.3	3.0	A, B
SN250220059C041	3.16	1.3	3.0	A, B
SN250220059C042	3.04	1.3	3.0	A, B
SN250220059C043	3.05	1.3	3.0	A, B
For model: HYLN IMR18650-1200mAh				
SN250220060C039	3.06	1.2	3.0	A, B
SN250220060C040	3.07	1.2	3.0	A, B
SN250220060C041	3.06	1.2	3.0	A, B
SN250220060C042	3.07	1.2	3.0	A, B
SN250220060C043	3.07	1.2	3.0	A, B
For model: HYLN IMR18650-800mAh				
SN250220012C039	3.09	0.8	3.0	A, B
SN250220012C040	3.09	0.8	3.0	A, B
SN250220012C041	3.09	0.8	3.0	A, B
SN250220012C042	3.09	0.8	3.0	A, B
SN250220012C043	3.09	0.8	3.0	A, B
Supplementary information:				
A. No fire				
B. No explosion				

IEC 62133-2					
Clause	Requirement + Test			Result - Remark	Verdict
7.3.8.1	TABLE: Vibration				N/A
Sample No.	OCV before test (Vdc)	OCV after test (Vdc)	Mass before test (g)	Mass after test (g)	Results
Supplementary information:					

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

7.3.9 TABLE: Forced internal short circuit (cells)						P
Sample No.	Chamber ambient T (°C)	OCV before test (Vdc)	Particle location ¹⁾	Maximum applied pressure (N)	Results	
Samples charged at charging temperature upper limit (45°C)						
For model: HYLN IMR18650-3000mAh						
SN250220056C044	45	4.17	1	800	A	
SN250220056C045	45	4.18	1	800	A	
SN250220056C046	45	4.17	1	800	A	
SN250220056C047	45	4.18	1*	800	A	
SN250220056C048	45	4.17	1*	800	A	
For model: HYLN IMR18650-2500mAh						
SN250220057C044	45	4.17	1	800	A	
SN250220057C045	45	4.18	1	800	A	
SN250220057C046	45	4.17	1	800	A	
SN250220057C047	45	4.18	1*	800	A	
SN250220057C048	45	4.17	1*	800	A	
For model: HYLN IMR18650-2000mAh						
SN250220005C044	45	4.17	1	800	A	
SN250220005C045	45	4.18	1	800	A	
SN250220005C046	45	4.18	1	800	A	

IEC 62133-2					
Clause	Requirement + Test			Result - Remark	Verdict
SN250220005C047	45	4.18	1*	800	A
SN250220005C048	45	4.18	1*	800	A
For model: HYLN IMR18650-1800mAh					
SN250220058C044	45	4.17	1	800	A
SN250220058C045	45	4.18	1	800	A
SN250220058C046	45	4.17	1	800	A
SN250220058C047	45	4.17	1*	800	A
SN250220058C048	45	4.17	1*	800	A
For model: HYLN IMR18650-1500mAh					
SN250220011C044	45	4.18	1	800	A
SN250220011C045	45	4.17	1	800	A
SN250220011C046	45	4.17	1	800	A
SN250220011C047	45	4.18	1*	800	A
SN250220011C048	45	4.17	1*	800	A
For model: HYLN IMR18650-1300mAh					
SN250220059C044	45	4.17	1	800	A
SN250220059C045	45	4.18	1	800	A
SN250220059C046	45	4.17	1	800	A
SN250220059C047	45	4.18	1*	800	A
SN250220059C048	45	4.17	1*	800	A
For model: HYLN IMR18650-1200mAh					
SN250220060C044	45	4.17	1	800	A
SN250220060C045	45	4.17	1	800	A
SN250220060C046	45	4.17	1	800	A
SN250220060C047	45	4.18	1*	800	A
SN250220060C048	45	4.18	1*	800	A
For model: HYLN IMR18650-800mAh					
SN250220012C044	45	4.17	1	800	A
SN250220012C045	45	4.18	1	800	A
SN250220012C046	45	4.18	1	800	A
SN250220012C047	45	4.18	1*	800	A
SN250220012C048	45	4.18	1*	800	A
Samples charged at charging temperature lower limit (0°C)					
For model: HYLN IMR18650-3000mAh					
SN250220056C049	0	4.14	1	800	A

IEC 62133-2					
Clause	Requirement + Test			Result - Remark	Verdict
SN250220056C050	0	4.14	1	800	A
SN250220056C051	0	4.14	1	800	A
SN250220056C052	0	4.15	1*	800	A
SN250220056C053	0	4.15	1*	800	A
For model: HYLN IMR18650-2500mAh					
SN250220057C049	0	4.15	1	800	A
SN250220057C050	0	4.15	1	800	A
SN250220057C051	0	4.14	1	800	A
SN250220057C052	0	4.14	1*	800	A
SN250220057C053	0	4.14	1*	800	A
For model: HYLN IMR18650-2000mAh					
SN250220005C049	0	4.14	1	800	A
SN250220005C050	0	4.15	1	800	A
SN250220005C051	0	4.15	1	800	A
SN250220005C052	0	4.14	1*	800	A
SN250220005C053	0	4.15	1*	800	A
For model: HYLN IMR18650-1800mAh					
SN250220058C049	0	4.14	1	800	A
SN250220058C050	0	4.15	1	800	A
SN250220058C051	0	4.15	1	800	A
SN250220058C052	0	4.14	1*	800	A
SN250220058C053	0	4.14	1*	800	A
For model: HYLN IMR18650-1500mAh					
SN250220011C049	0	4.15	1	800	A
SN250220011C050	0	4.14	1	800	A
SN250220011C051	0	4.14	1	800	A
SN250220011C052	0	4.14	1*	800	A
SN250220011C053	0	4.14	1*	800	A
For model: HYLN IMR18650-1300mAh					
SN250220059C049	0	4.14	1	800	A
SN250220059C050	0	4.15	1	800	A
SN250220059C051	0	4.15	1	800	A
SN250220059C052	0	4.15	1*	800	A
SN250220059C053	0	4.14	1*	800	A
For model: HYLN IMR18650-1200mAh					

IEC 62133-2					
Clause	Requirement + Test			Result - Remark	Verdict
SN250220060C049	0	4.15	1	800	A
SN250220060C050	0	4.14	1	800	A
SN250220060C051	0	4.14	1	800	A
SN250220060C052	0	4.15	1*	800	A
SN250220060C053	0	4.14	1*	800	A
For model: HYLN IMR18650-800mAh					
SN250220012C049	0	4.15	1	800	A
SN250220012C050	0	4.15	1	800	A
SN250220012C051	0	4.14	1	800	A
SN250220012C052	0	4.14	1*	800	A
SN250220012C053	0	4.15	1*	800	A
Supplementary information:					
1) Identify one of the following:					
1: Nickel particle inserted between positive and negative (active material) coated area.					
2: Nickel particle inserted between positive aluminium foil and negative active material coated area.					
*Remark: No position 2 exist.					
A. No fire					

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

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

TABLE: Critical components information					P
Object / part No.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Positive electrode	Henan Huiqiang	TMR01	Lithium manganate	--	--
Negative electrode	Anhui Boshi	HD	Carbon	--	--
Electrolyte	Jiaozuo Rongchuang	TMR01	LiPF ₆ +DEC+EC+EMC	--	--
Separator	Shangqiu Yida	0.025*60 mm	PP+PE, 25µm, Shutdown temperature: 130°C.	--	--
Supplementary information: ¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

--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			
Copyright © 2022 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.			
	National Differences		P
7.3.6	Over-charging of battery		N/A
(Revision)	<p>[Add the bolded text]</p> <p>b) Test</p> <p>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 k A, to a final discharge voltage specified by the manufacturer. Sample batteries shall then be charged at a constant current of 2,0 k A, using a supply voltage which is:</p> <ul style="list-style-type: none"> • 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 k A throughout the duration of the test or until the supply voltage is reached. <p><u>• 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 k A_s</u></p> <p>(e.g., quick charging power bank, etc.)</p>	Cell only	N/A

ATTACHMENT to IEC62133_2C			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>[Replace to the following statement]</p> <p>c) Acceptance criteria</p> <p>Filling beyond the manufacturer's specified limits should not result in ignition or explosion</p>		N/A
Annex G	Definition for shape and materials of outer case for cell		—
<i>(Addition)</i>	<p>G.1 General</p> <p>Annex G provides definitions for shape and materials of outer case for cell</p> <p>G.2 Shape of outer case for cell</p> <p>G 2.1 Cylindrical cell</p> <p>Cell with a cylindrical shape in which the overall height is equal to or greater than diameter.</p> <p>G 2.2 Prismatic cell</p> <p>Cell having the shape of a parallelepiped whose faces are rectangular</p> <p>G.3 Materials of outer case for cell</p> <p>G.3.1 Soft case</p> <p>Non-metallic outer case or container for cell</p> <p>G.3.2 Hard case</p> <p>Metallic outer case or container for cell.</p>	<p>(Shape of outer cases)</p> <p><input checked="" type="checkbox"/> Cylindrical</p> <p><input type="checkbox"/> Prismatic</p> <p>(Materials of outer cases)</p> <p><input checked="" type="checkbox"/> Hard</p> <p><input type="checkbox"/> Soft</p>	—
Annex H	Calculation method of the volumetric energy density for cell		—

ATTACHMENT to IEC62133_2C			
Clause	Requirement + Test	Result - Remark	Verdict
(Addition)	<p>Annex H provide a calculation method of the volumetric energy density for cell in use of smart phone, tablet, notebook.</p> <p>H.1 General</p> <p>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.</p>	<p>1) 633.87 Wh/L (For model HYLN IMR18650-3000mAh)</p> <p>2) 549.35 Wh/L (For model HYLN IMR18650-2600mAh)</p> <p>3) 528.22 Wh/L (For model HYLN IMR18650-2500mAh)</p> <p>4) 464.84 Wh/L (For model HYLN IMR18650-2200mAh)</p> <p>5) 422.58 Wh/L (For model HYLN IMR18650-2000mAh)</p> <p>6) 380.32 Wh/L (For model HYLN IMR18650-1800mAh)</p> <p>7) 316.93 Wh/L (For model HYLN IMR18650-1500mAh)</p> <p>8) 274.68 Wh/L (For model HYLN IMR18650-1300mAh)</p> <p>9) 253.55 Wh/L (For model HYLN IMR18650-1200mAh)</p> <p>10) 169.03 Wh/L (For model HYLN IMR18650-800mAh)</p>	—

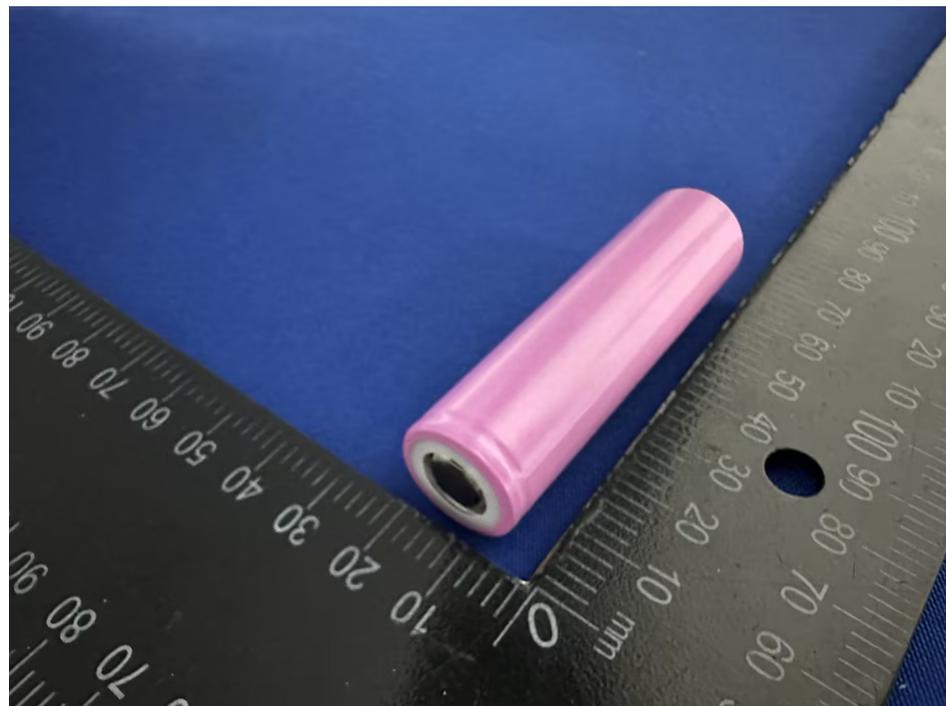
ATTACHMENT to IEC62133_2C			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>H.2 Calculation Method</p> <p>L : Length (max.) of cell (including terrace) W : Width (max.) of cell T : Thickness (max.) when shipping charge (For reference, Please Exclude the dimension of any tape that is attached to cell)</p> $\text{Volumetric energy density (Wh/L)} = \frac{\text{Nominal voltage (V)} \times \text{Rated capacity (Ah)}}{\text{Length (L)} \times \text{Width (W)} \times \text{Thickness (T)}}$ <p>[H.1 – Prismatic cell using soft case]</p> <p>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)</p> $\text{Volumetric energy density (Wh/L)} = \frac{\text{Nominal voltage (V)} \times \text{Rated capacity (Ah)}}{\text{Length (L)} \times \text{Width (W)} \times \text{Thickness (T)}}$ <p>[H.2 – Prismatic cell using hard case]</p> <p>D : Diameter (max.) of cell L : Length (max.) of cell (According to shape of cell at shipping, The dimension of tube for cell may be included in overall dimension of cell)</p> $\text{Volumetric energy density (Wh/L)} = \frac{\text{Nominal voltage (V)} \times \text{Rated capacity (Ah)}}{3.14159 \times \frac{\text{Diameter (D)}^2}{4} \times \text{Length(L)}}$ <p>[H.3 – Cylindrical cell using hard case]</p>		

Product: Cylindrical Lithium-ion Rechargeable Cell

Type Designation: **HYLN IMR18650-3000mAh**, HYLN IMR18650-2600mAh, **HYLN IMR18650-2500mAh**,
HYLN IMR18650-2200mAh, **HYLN IMR18650-2000mAh**, **HYLN IMR18650-1800mAh**,
HYLN IMR18650-1500mAh, **HYLN IMR18650-1300mAh**,
HYLN IMR18650-1200mAh, **HYLN IMR18650-800mAh**



Picture 1. Side view-1 of cell for model HYLN IMR18650-3000mAh



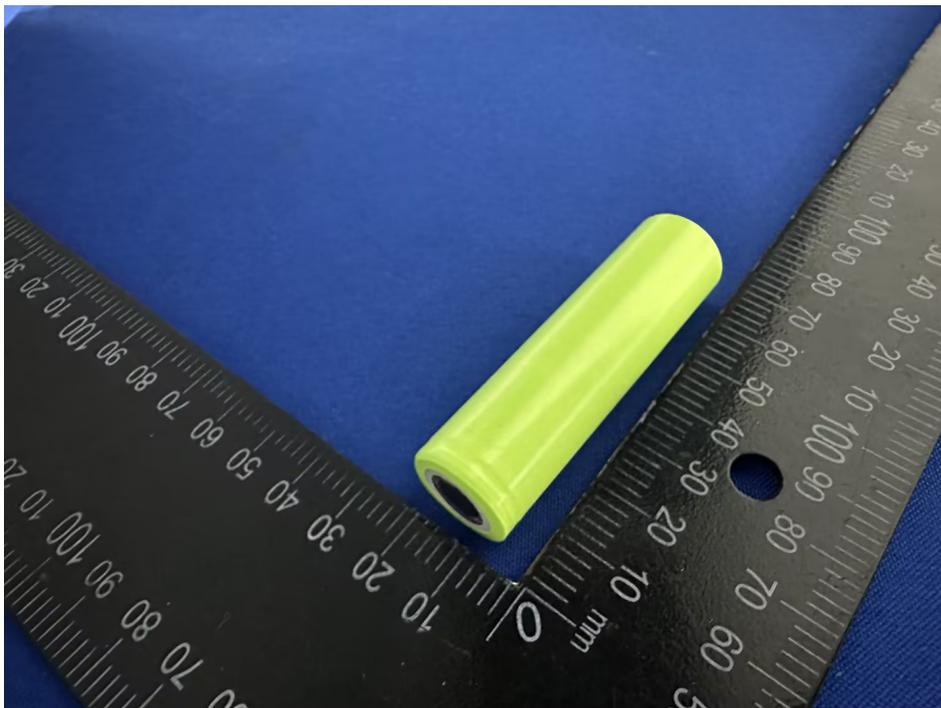
Picture 2. Side view-2 of cell for model HYLN IMR18650-3000mAh

Product: Cylindrical Lithium-ion Rechargeable Cell

Type Designation: **HYLN IMR18650-3000mAh**, HYLN IMR18650-2600mAh, **HYLN IMR18650-2500mAh**, HYLN IMR18650-2200mAh, **HYLN IMR18650-2000mAh**, HYLN IMR18650-1800mAh, HYLN IMR18650-1500mAh, HYLN IMR18650-1300mAh, HYLN IMR18650-1200mAh, HYLN IMR18650-800mAh



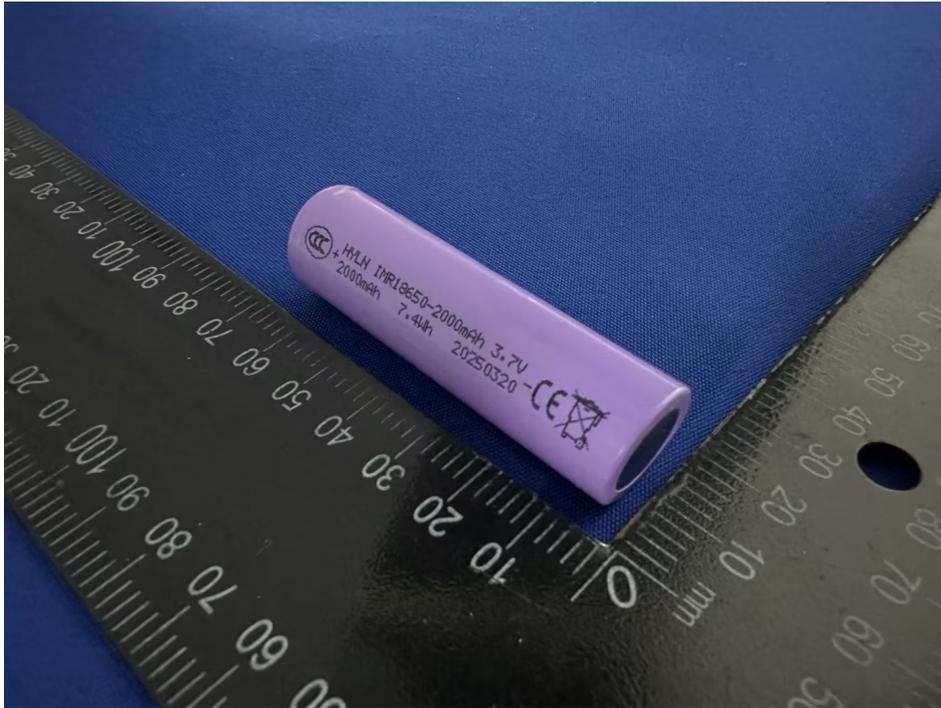
Picture 3. Side view-1 of cell for model HYLN IMR18650-2500mAh



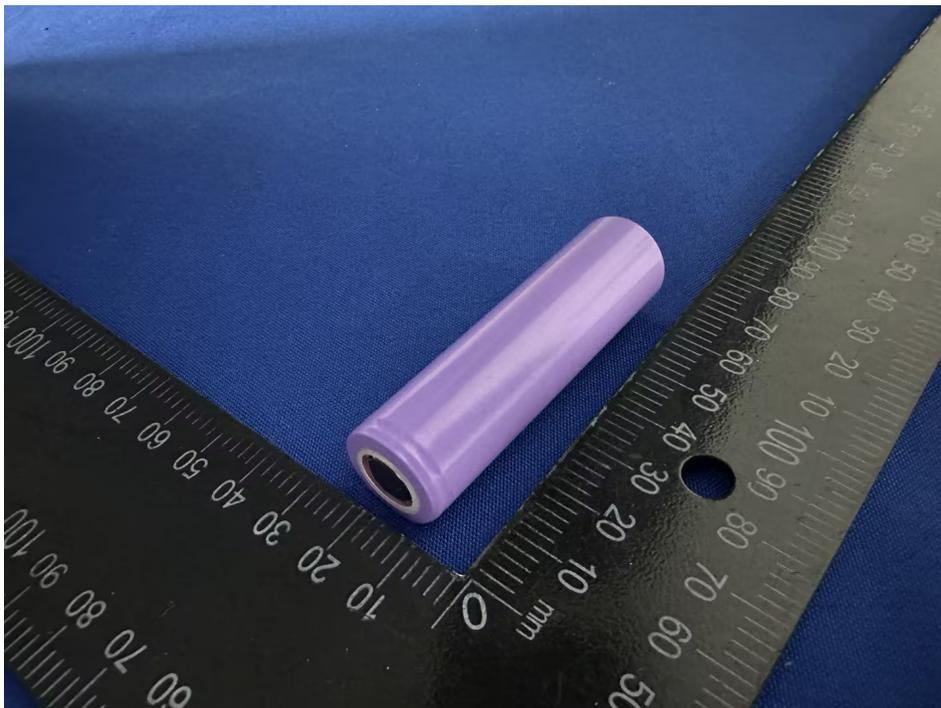
Picture 4. Side view-2 of cell for model HYLN IMR18650-2500mAh

Product: Cylindrical Lithium-ion Rechargeable Cell

Type Designation: **HYLN IMR18650-3000mAh**, HYLN IMR18650-2600mAh, **HYLN IMR18650-2500mAh**,
HYLN IMR18650-2200mAh, **HYLN IMR18650-2000mAh**, HYLN IMR18650-1800mAh,
HYLN IMR18650-1500mAh, HYLN IMR18650-1300mAh,
HYLN IMR18650-1200mAh, HYLN IMR18650-800mAh



Picture 5. Side view-1 of cell for model HYLN IMR18650-2000mAh



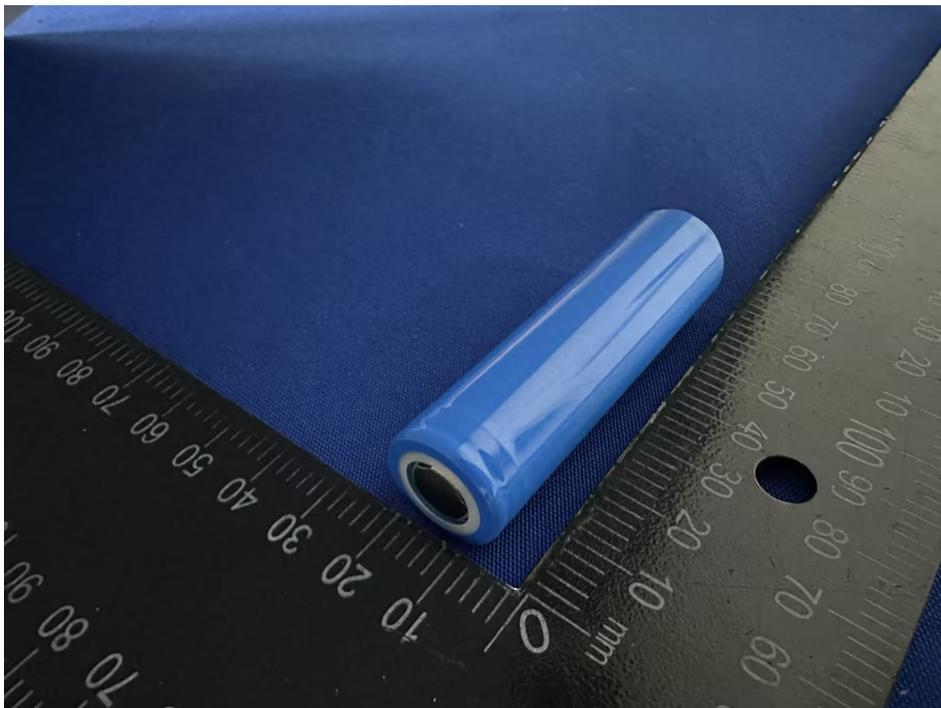
Picture 6. Side view-2 of cell for model HYLN IMR18650-2000mAh

Product: Cylindrical Lithium-ion Rechargeable Cell

Type Designation: **HYLN IMR18650-3000mAh, HYLN IMR18650-2600mAh, HYLN IMR18650-2500mAh, HYLN IMR18650-2200mAh, HYLN IMR18650-2000mAh, HYLN IMR18650-1800mAh, HYLN IMR18650-1500mAh, HYLN IMR18650-1300mAh, HYLN IMR18650-1200mAh, HYLN IMR18650-800mAh**



Picture 7. Side view-1 of cell for model HYLN IMR18650-1800mAh



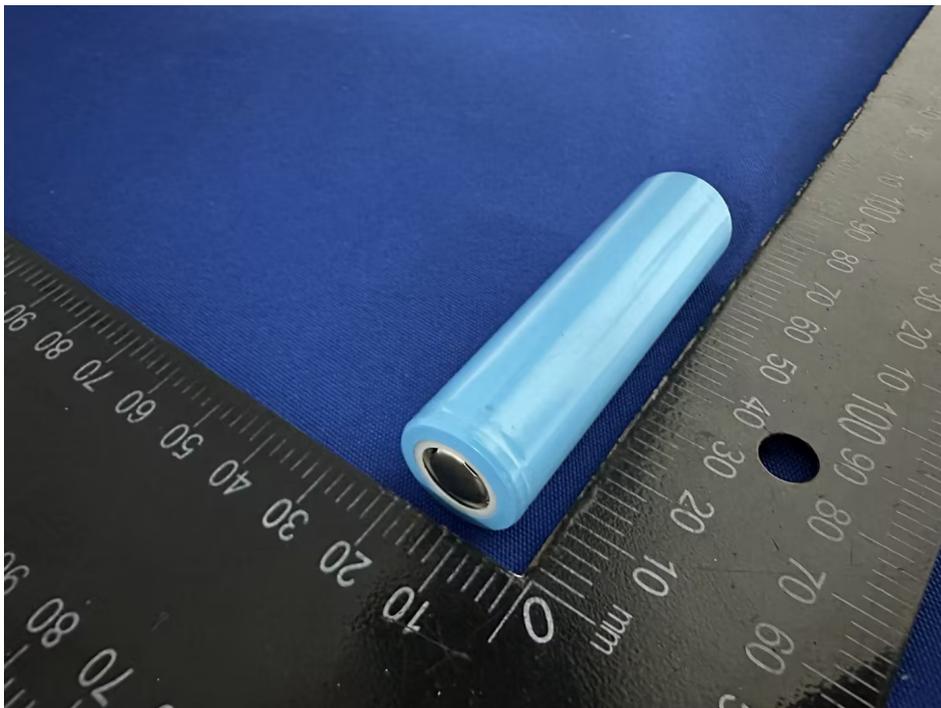
Picture 8. Side view-2 of cell for model HYLN IMR18650-1800mAh

Product: Cylindrical Lithium-ion Rechargeable Cell

Type Designation: **HYLN IMR18650-3000mAh, HYLN IMR18650-2600mAh, HYLN IMR18650-2500mAh, HYLN IMR18650-2200mAh, HYLN IMR18650-2000mAh, HYLN IMR18650-1800mAh, HYLN IMR18650-1500mAh, HYLN IMR18650-1300mAh, HYLN IMR18650-1200mAh, HYLN IMR18650-800mAh**



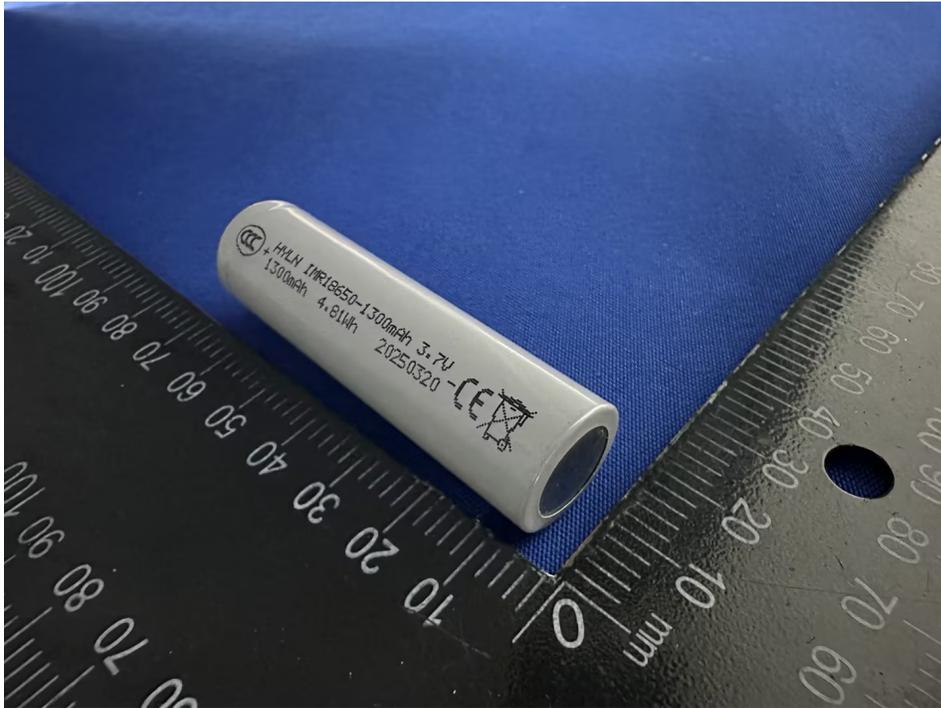
Picture 9. Side view-1 of cell for model HYLN IMR18650-1500mAh



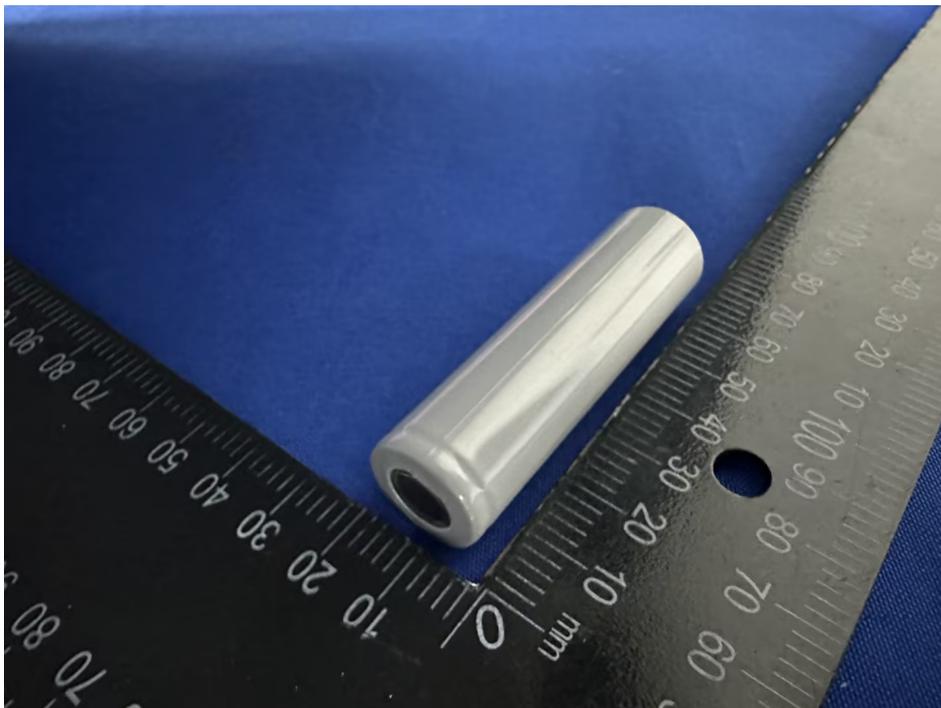
Picture 10. Side view-2 of cell for model HYLN IMR18650-1500mAh

Product: Cylindrical Lithium-ion Rechargeable Cell

Type Designation: **HYLN IMR18650-3000mAh**, HYLN IMR18650-2600mAh, **HYLN IMR18650-2500mAh**,
HYLN IMR18650-2200mAh, **HYLN IMR18650-2000mAh**, **HYLN IMR18650-1800mAh**,
HYLN IMR18650-1500mAh, **HYLN IMR18650-1300mAh**,
HYLN IMR18650-1200mAh, **HYLN IMR18650-800mAh**



Picture 11. Side view-1 of cell for model HYLN IMR18650-1300mAh



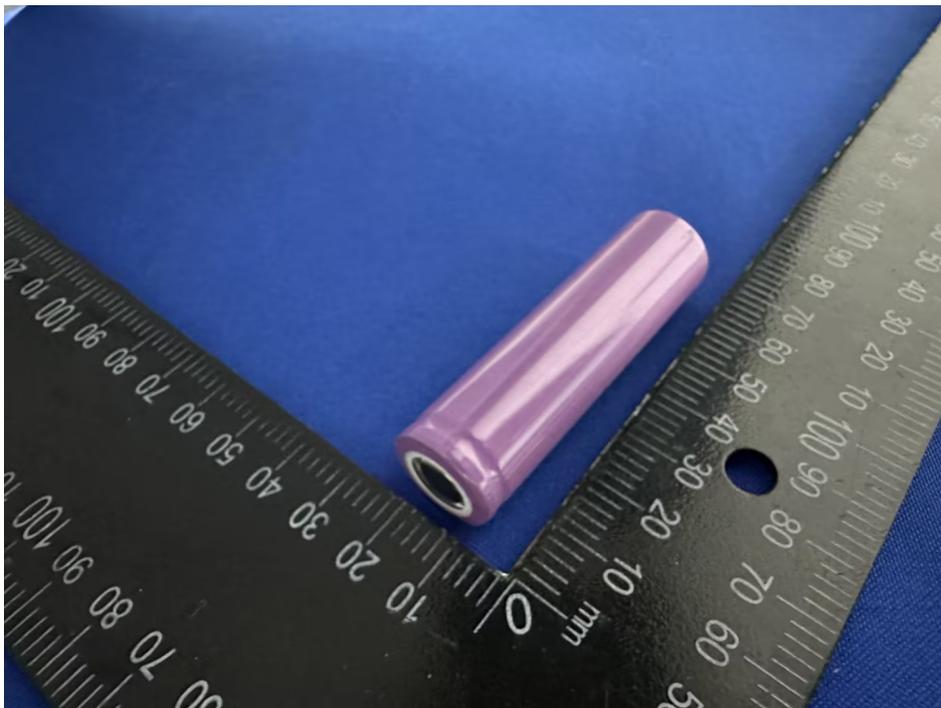
Picture 12. Side view-2 of cell for model HYLN IMR18650-1300mAh

Product: Cylindrical Lithium-ion Rechargeable Cell

Type Designation: **HYLN IMR18650-3000mAh**, HYLN IMR18650-2600mAh, **HYLN IMR18650-2500mAh**,
HYLN IMR18650-2200mAh, **HYLN IMR18650-2000mAh**, **HYLN IMR18650-1800mAh**,
HYLN IMR18650-1500mAh, **HYLN IMR18650-1300mAh**,
HYLN IMR18650-1200mAh, **HYLN IMR18650-800mAh**



Picture 13. Side view-1 of cell for model HYLN IMR18650-1200mAh



Picture 14. Side view-2 of cell for model HYLN IMR18650-1200mAh

Product: Cylindrical Lithium-ion Rechargeable Cell

Type Designation: **HYLN IMR18650-3000mAh**, HYLN IMR18650-2600mAh, **HYLN IMR18650-2500mAh**, HYLN IMR18650-2200mAh, **HYLN IMR18650-2000mAh**, **HYLN IMR18650-1800mAh**, **HYLN IMR18650-1500mAh**, **HYLN IMR18650-1300mAh**, **HYLN IMR18650-1200mAh**, **HYLN IMR18650-800mAh**



Picture 15. Side view-1 of cell for model HYLN IMR18650-800mAh



Picture 16. Side view-1 of cell for model HYLN IMR18650-800mAh