





TEST REPORT

Applicant :

Address :

Report on the submitted samples said to be:

Sample Name(s) : Li-ion Battery

Trade Mark : N/A

Tested Model No. : 602040

Sample Type : Portable battery

Sample Received Date : May 14, 2025

Testing Period : May 14, 2025 ~ May 19, 2025

Date of Report : May 19, 2025

Testing Location 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community,

Matian Street, Guangming District, Shenzhen, Guangdong, China

Results : Please refer to next page(s).

TEST REQUEST	CONCLUSION	F	
As specified by client, to determine Lead(Pb), Cadmium(Cd) and Mercury(Hg) Content in the submitted sample according to Article 6(1) of Regulation (EU) 2023/1542 and its Annex I.	PASS	*	AP

Signed for and on behalf of LCS





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Report No.: LCSA05095120R



Tested part(s):

Battery 1.

Test method: With reference to IEC 62321-5:2013 & IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES).

Tested result(s):

Test Item(s)	MDL (%)	Test Result(s) (%) 1	Limit (%)
Lead(Pb) Content	0.0005	N.D. VST ICS Testing Lab	0.01
Cadmium(Cd) Content	0.0005	N.D.	0.002
Mercury(Hg) Content	0.0005	N.D.	0.0005

Note:

7.1	
Column 1 Designation of the substance or group	Columm 2 Conditions of restriction
of substances	Collations of restriction
1. Mercury	Batteries, whether or not incorporated into appliances, light means of
CAS No 7439-97-6	transport or other vehicles, shall not contain more than 0,0005 % of
EC No 231-106-7 and its compounds	mercury (expressed as mercury metal) by weight.
2. Cadmium	Portable batteries, whether or not incorporated into appliances, light
CAS No 7440-43-9	means of transport or other vehicles, shall not contain more than 0,002 %
EC No 231-152-8 and its compounds	of cadmium (expressed as cadmium metal) by weight.
	1. From 18 August 2024, portable batteries, whether or not incorporated
3. Lead	into appliances, shall not contain more than 0,01 % of lead (expressed as
CAS No 7439-92-1	lead metal) by weight.
EC No 231-100-4 and its compounds	2. The restriction set out in point 1 shall not apply to portable zinc-air
	button cells until 18 August 2028.

Remark:

According to Regulation (EU) 2023/1542:

- ※1 = This Regulation does not apply to batteries that are incorporated into or that are specifically designed to be incorporated into:
 - (a) equipment connected with the protection of Member States' essential security interests, arms, munitions and war material, with the exclusion of products that are not intended for specifically military purposes;
 - (b) equipment designed to be sent into space.
- *2 = From 18 August 2025, all batteries shall be marked with the symbol for separate collection of batteries ('separate collection symbol')

Symbol for separate collection of batteries



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The separate collection symbol shall cover at least 3 % of the area of the largest side of the battery up to a maximum size of 5×5 cm.

In the case of cylindrical battery cells, the separate collection symbol shall cover at least 1,5 % of the surface area of the battery and shall have a maximum size of 5×5 cm.

Where the size of the battery is such that the separate collection symbol would be smaller than 0.47×0.47 cm, the battery does not need to be marked with that symbol. Instead, a separate collection symbol measuring at least 1×1 cm shall be printed on the packaging.

**3 = 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. And 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.

Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)

LOS Testing

上CS Testing Lab



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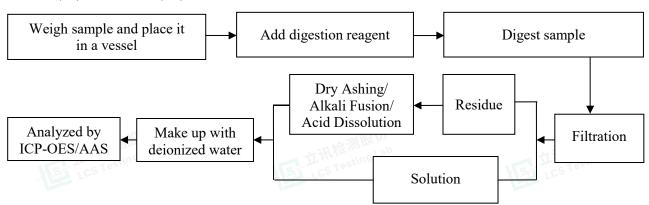


Report No.: LCSA05095120R

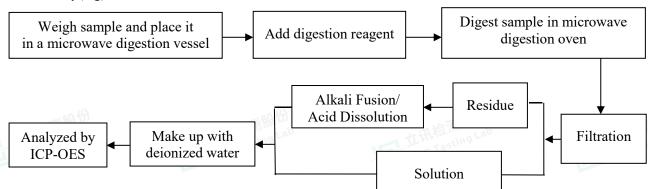


Test Process

1. Lead(Pb) & Cadmium(Cd)



2. Mercury(Hg)









Report No.: LCSA05095120R

TRF-4-R-034 A/0



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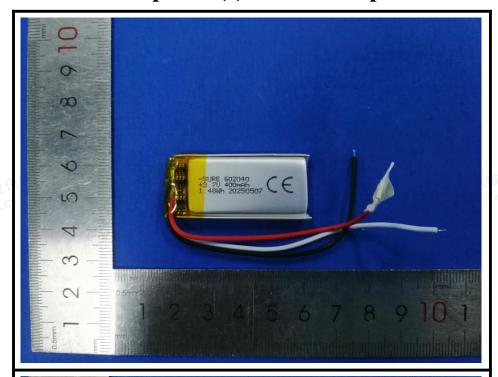
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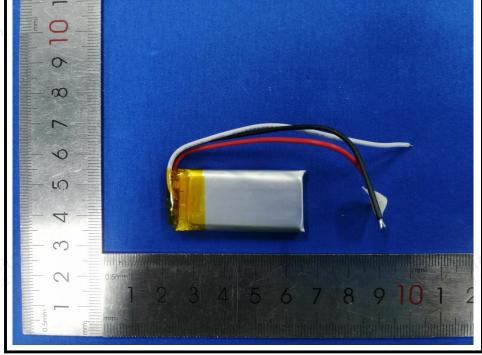
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The photo(s) of the sample





TRF-4-R-034 A/0



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Statement:

- 1. The test report shall not be deemed valid unless it bears the signature of the approver and the company's official seal.
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- 3. The test results included in this report are solely accountable for the tested samples.
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*** End of Report ***















Report No.: LCSA05095120R

Shenzhen LCS Compliance Testing Laboratory Ltd.



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:	LCSA05095121S

Date of issue....: 2025-05-30

Total number of pages.....: 25 pages

Applicant's name.....:

Address....:

Test specification:

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

Test procedure....:: Type Test

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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General disclaimer:

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

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Test item description....:: Li-ion Battery

Trade Mark....:

N/A

Manufacturer....:

Same as applicant

adModel/Type reference....:

Ratings....:

3.7V, 400mAh, 1.48Wh





Responsil	ole Testing Laboratory (as applicable), to	esting procedure and to	esting location(s):	
	Testing Laboratory:	Shenzhen LCS Complia	ance Testing Laboratory Ltd.	
Testing location/ address::		Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China Room 101, Building C, Xueziwei Creative Park, Yabian		
		Community, Shajing Stro Guangdong, China	eet, Bao'an District, Shenzhen,	
Tested by	(name, signature):	Levon Li	Levon Li	
Checked b	oy(name, signature):	Doris Ye	Days Co	
Approved	by (name, signature):	Hart Qiu	APPENSON *	
	Testing procedure: CTF Stage 1:			
Testing lo	cation/ address:			
Tested by	(name, function, signature):		s43	
Approved	by (name, function, signature):	工语位测明	gLab	
	Testing procedure: CTF Stage 2:			
Testing lo	cation/ address:			
Tested by	(name + signature):			
Witnessed	I by (name, function, signature):			
Approved	by (name, function, signature):			
	Testing procedure: CTF Stage 3:	n检测股份	三国检测股份	
	Testing procedure: CTF Stage 4:	S Testing P	MST LCS Testing D	
Testing lo	cation/ address:			
Tested by	(name, function, signature):			
Witnessed	I by (name, function, signature):			
Approved	by (name, function, signature):			
Supervise	d by (name, function, signature) :			



Shenzhen LCS Compliance Testing Laboratory Ltd.
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List of Attachments (including a total number of pages in each attachment):

Attachment 1: Photo Documentation (3 pages).

Summary of testing:

Tests performed (name of test and test clause):

- cl.7.1 Charging procedure for test purposes (for Cells and Batteries);
- cl.7.2.1 Continuous charging at constant voltage (Cells);
- cl.7.2.2 Case stress at high ambient temperature (Batteries);
- cl.7.3.1 External short-circuit (Cells);
- cl.7.3.2 External short-circuit (Batteries);
- cl.7.3.3 Free fall (Cells and Batteries);
- cl.7.3.4 Thermal abuse (Cells);
- cl.7.3.5 Crush (Cells);
- cl.7.3.6 Over-charging of battery;
- cl.7.3.7 Forced discharge (Cells);
- cl.7.3.8 Mechanical tests (Batteries);
- cl.7.3.9 Design evaluation Forced internal short-circuit (cells).

Remark:

cl.7.3.8 Mechanical tests place in the Room 101, Building C, Xueziwei Creative Park, Yabian Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tests are made with the number of cells and batteries specified in IEC 62133-2:2017, IEC62133-2:2017/ AMD1:2021 Table 1.

Testing location:

Shenzhen LCS Compliance Testing Laboratory Ltd.

Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Room 101, Building C, Xueziwei Creative Park, Yabian Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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

□ The product fulfils the requirements of EN 62133-2:2017, EN 62133-2:2017/AMD1:2021 and BS 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.

Red (+)

Black (-)

Li-ion Battery Model: 602040

3.7V, 400mAh, 1.48Wh

1ICP6/21/41 YYYY/MM/DD

WARNING:

Do not disassemble, puncture, crush, heat, or burn.

Remark:

1. "YYYY" means year for manufacture;

"MM" means month for manufacture;

"DD" means day for manufacture.

2. The applicant and manufacturer information, product name, model, trademark and other information in this report are all provided by the applicant, and this laboratory is not responsible for verifying its authenticity.



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Test item particulars:		VST ICS Testiv		
Classification of installation and use:	To be defined in final product	100		
Supply Connection::	DC lead wire			
Recommend charging method declared by the manufacturer:	Charging the battery with 200mA constant current and 4.2V constant voltage until the current reduces to 4mA at ambient 20°C±5°C			
Discharge current (0,2 It A):	80mA			
Specified final voltage::	2.75V			
Upper limit charging voltage per cell:	4.2V	-11 PG (5)		
Maximum charging current:	400mA	在河间RXLab		
Charging temperature upper limit:	45°C	10-		
Charging temperature lower limit::	0°C			
Polymer cell electrolyte type:	\square gel polymer \square 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::	2025-05-09	WST CS Testin		
Date (s) of performance of tests:	2025-05-09 to 2025-05-23	The contract of		
General remarks:				
The test results presented in this report relate only to the ol This report shall not be reproduced, except in full, without the		g laboratory.		
"(See Enclosure #)" refers to additional information appear "(See appended table)" refers to a table appended to the re	•			
Throughout this report a ☐ comma / ☒ point is use	ed as the decimal separator.	A TIM RE (1)		
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 C	General product information section.			
Name and address of factory (ies):	Same as manufacturer			





General product information and other remarks:

This battery is constructed with one li-ion cell in 1S1P, and has overcharge, over-discharge, over current and short-circuits proof circuit.

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

Model	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Cut-off Voltage
602040 (Battery)	400mAh	3.7V	200mA	80mA	400mA	400mA	4.2V	2.75V

The main features of the cell in the battery are shown as below (clause 7.1.1):								
Model	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Cut-off Voltage
602040 (Cell)	400mAh	3.7V	200mA	80mA	400mA	400mA	4.2V	2.75V

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

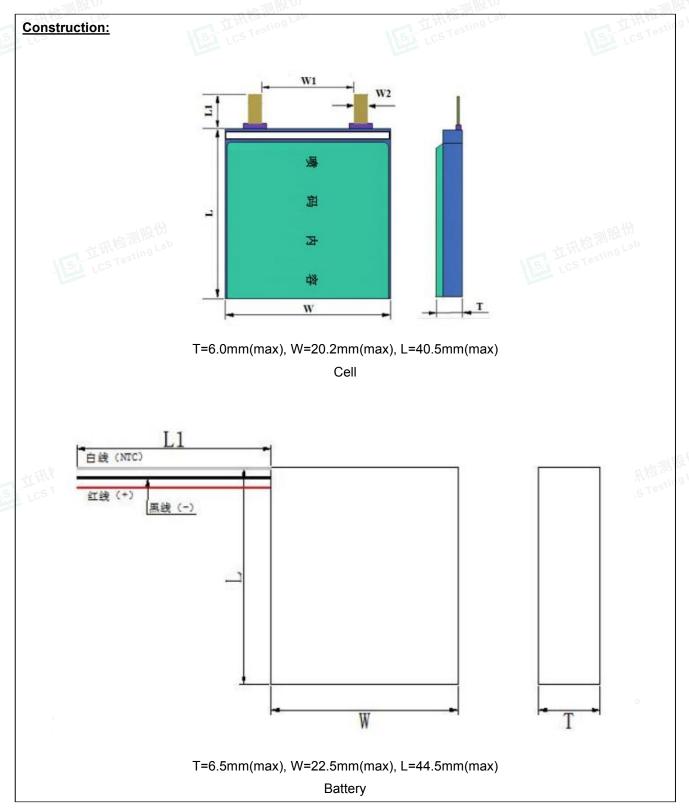
Model	Upper limit charge voltage	Taper-off current	Lower charge temperature	Upper charge temperature
602040 (Cell)	4.2V	20mA	0°C	45°C





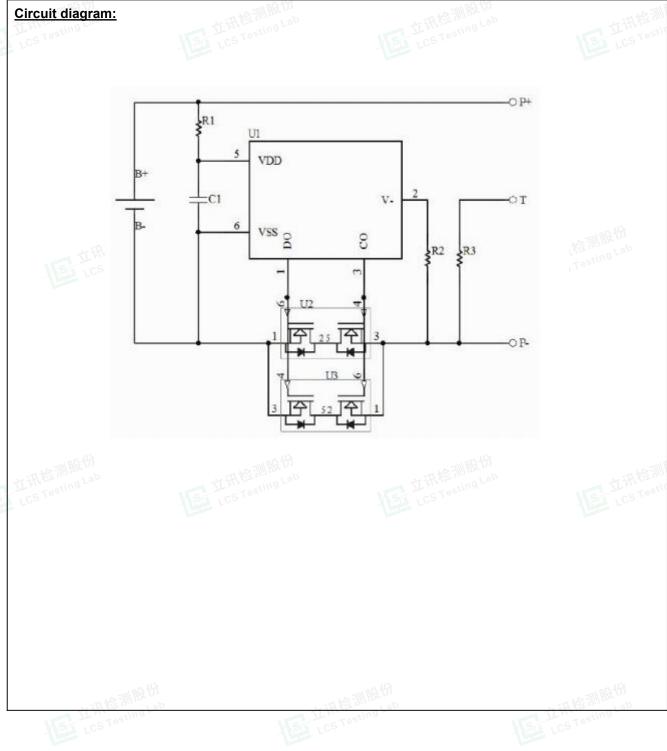
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Till Testing Lab		IEC 62133-2	ng Lab
Clause	Requirement + Test	Result	- Remark Verdic

4	PARAMETER MEASUREMENT TOLERANCES		Р
	Parameter measurement tolerances		Р

		1
CENERAL CAFETY CONCIDERATIONS		
	l	Р
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	A United States	份 P
terminal and externally exposed metal surfaces of the battery (excluding electrical contact surfaces) is not less than 5 $\text{M}\Omega$	No metal surface exists.	N/A
` '		_
Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements		P
Orientation of wiring maintains adequate clearances and creepage distances between conductors		Р
Mechanical integrity of internal connections accommodates reasonably foreseeable misuse	with the	Р
Venting	an 检测版 Lab	P. IN 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 narrow side of pouch cell.	LCS Pestil
Encapsulation used to support cells within an outer casing does not cause the battery to overheat during		N/A
		Р
Batteries are designed such that abnormal temperature rise conditions are prevented	Overcharge, over discharge, over current and short-circuit proof circuit used in this battery. See tests of clause 7.	P
Batteries are designed to be within temperature, voltage and current limits specified by the cell manufacturer	See above.	Lab P
Batteries are provided with specifications and charging instructions for equipment manufacturers so that specified chargers are designed to maintain charging within the temperature, voltage and current limits specified	The charging limits specified in the manufacturer's specification.	Р
Terminal contacts		Р
The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current	DC lead wire complied with the requirements.	Р
External terminal contact surfaces are formed from conductive materials with good mechanical strength and corrosion resistance	Complied.	P 江语检测 I CS Testi
	battery (excluding electrical contact surfaces) is not less than 5 MΩ Insulation resistance (MΩ): Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements Orientation of wiring maintains adequate clearances and creepage distances between conductors Mechanical integrity of internal connections accommodates reasonably foreseeable misuse Venting 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 Encapsulation used to support cells within an outer casing does not cause the battery to overheat during normal operation nor inhibit pressure relief Temperature, voltage and current management Batteries are designed such that abnormal temperature rise conditions are prevented Batteries are designed to be within temperature, voltage and current limits specified by the cell manufacturer 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 Terminal contacts The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current External terminal contact surfaces are formed from conductive materials with good mechanical strength	General Cells and batteries so designed and constructed that they are safe under conditions of both intended use and reasonably foreseeable misuse Insulation and wiring No metal surface exists. The insulation resistance between the positive terminal and externally exposed metal surfaces of the battery (excluding electrical contact surfaces) is not less than 5 MΩ No metal surface exists. Insulation resistance (MΩ): Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements Venting Orientation of wiring maintains adequate clearances and creepage distances between conductors Venting Venting 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 narrow side of pouch cell. Enapsulation used to support cells within an outer casing does not cause the battery to overheat during normal operation nor inhibit pressure relief Overcharge, over discharge, over current and short-circuit proof circuit used in this battery. See tests of clause 7. Batteries are designed to be within temperature, voltage and current limits specified by the cell manufacturer See above. Batteries are provided with specifications and charging instructions for equipment manufacturers so that specified chargers are designed to maintain charging within the temperature, voltage and current limits specified The charging li



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an the	Page 11 01 25	Report No.LCSA050	331213
是可能测度初	IEC 62133-2	四位测度72	
Clause	Requirement + Test	Result - Remark	Verdic
, r _{C2} ,	155 rcs. 155 r	C2.	rca.
	Terminal contacts are arranged to minimize the risk of short circuits		Р
5.6	Assembly of cells into batteries		Р
5.6.1	General		Р
	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	Protective circuit equipped on battery.	Р
	This protection may be provided external to the battery such as within the charger or the end devices	THE HOTEL	N/A
TEG LOS	If protection is external to the battery, the manufacturer of the battery provide this safety relevant information to the external device manufacturer for implementation	LCS Testing	.∘\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	Single cell battery.	N/A
	Manufacturers of cells specify current, voltage and temperature limits so that the battery manufacturer/designer may ensure proper design and assembly	Current, voltage and temperature limits specified by cell manufacturer.	Р
立讯检测股份 LCS Testing Lab	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	开检测股份 CS Testing Lab	N/A
	Protective circuit components are added as appropriate and consideration given to the end-device application		Р
	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	·	Р
5.6.2	Design recommendation		Р
TE ICE	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	Max. charging voltage of battery: 4.2V, not exceed 4.2V specified by manufacturer in Table 2.	份 P Lab
	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





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Clause	Requirement + Test	Result - Remark	Verdict
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	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	R.P.	N/A
TE LOS	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	LCS Testing	∟a N/A
	It is recommended that the cells and cell blocks are not discharged beyond the cell manufacturer's specified final voltage	Final voltage of cell: 2.75V, not exceed the final voltage specified by cell manufacturer.	Р
	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		Р
立语检测度的 LCS Testing Lab	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	Mechanical protection for cell connections and control circuits provided.	Till Paill LCS Test
	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	Mechanical protection for cells provided by the battery case.	Р
	The battery case and compartments housing cells are designed to accommodate cell dimensional tolerances during charging and discharging as recommended by the cell manufacturer	To be evaluated in final system.	N/A
TE IN	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	LCS Testing	N/A
5.7	Quality plan		Р
	The manufacturer prepares and implements a quality plan that defines procedures for the inspection of materials, components, cells and batteries and which covers the whole process of producing each type of cell or battery	Complied. Quality plan provided.	Р
5.8	Battery safety components	See TABLE: Critical components information	Р





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Clause	Requirement + Test	Result - Remark	Verdict
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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 °C ± 5 °C	and H	P 份
10	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		Lab P
	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	See clause 7.3.2.	Р

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	马检测股份 3.00	P 二面检测
LCS Testing	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 6.	LCSPest
	Prior to charging, the battery has been discharged at 20 °C ± 5 °C at a constant current of 0,2 It A down to a specified final voltage	See page 6.	LC _S
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
TE LOS	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 0~45°C declared. 45°C used for upper limit tests, 0°C used for lower limit tests.	P 份 Lab
7.2	Intended use		Р
7.2.1	Continuous charging at constant voltage (cells)	Tested as client requested.	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 200mA	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)	Tested as client requested.	Р
上記检测证	Oven temperature (°C):	70°C	_





iEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
I rea	197 rcs ,	rcs ,	rca,
	Results: no physical distortion of the battery case resulting in exposure of internal protective components and cells	No physical distortion of the battery case.	Р
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	and the	P 份
_ 1	Results: no fire, no explosion:	(See appended table 7.3.1)	Lab P
7.3.2	External short-circuit (battery)	Tested complied.	Р
	The batteries 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
	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		Р
立讯检测股份 LCS Testing La	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	Single fault conducted on four samples.	P 江讯检测 LCS Testil
	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	Single fault applies on MOSFET (U2) short circuit.	Р
	Results: no fire, no explosion:	(See appended table 7.3.2)	Р
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	^{⟨ŋ} P
7.3.5	Crush (cells)	Tested complied.	Lab P
1194 L	The crushing force was released upon:	1/3/1 /Ca	Р
	- The maximum force of 13 kN ± 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	Tested complied.	Р
	The supply voltage which is:		Р
J. IL	- 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	5.88V applied.	Р





THE THE THE PER LAN	IEC 62133-2		water.
Clause	Requirement + Test	Result - Remark	Verdict
100		-122	100
	- 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		Р
	Test was continued until the temperature of the outer casing:		Р
	- Reached steady state conditions (less than 10 °C change in 30-minute period); or	-call BF	N/A
- tiš	- Returned to ambient	一 古讯位测器	Lab P
Med to	Results: no fire, no explosion:	(See appended table 7.3.6)	Р
7.3.7	Forced discharge (cells)	Tested complied.	Р
	Discharge a single cell to the lower limit discharge voltage specified by the cell manufacturer	Lower limit discharge voltage 2.75V.	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
	- 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	平检测股份	N/A
LCS Testing L	- 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	es Testing E	LCS Pest
	Results: no fire, no explosion:	(See appended table 7.3.7)	Р
7.3.8	Mechanical tests (batteries)		Р
7.3.8.1	Vibration	Tested complied.	Р
	Results: no fire, no explosion, no rupture, no leakage or venting. :	(See appended table 7.3.8.1)	Р
7.3.8.2	Mechanical shock	Tested complied.	Р
	Results: no leakage, no venting, no rupture, no explosion and no fire :	(See appended table 7.3.8.2)	P 份
7.3.9	Design evaluation – Forced internal short-circuit (cells)	Tested complied.	Lab P
184 rc	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	400N for prismatic cells.	Р
	Results: no fire :	(See appended table 7.3.9)	Р

8	INFORMATION FOR SAFETY		Р
8.1	General		Р
10000000000000000000000000000000000000	Manufacturers of secondary cells provides	Information for safety	P
古语简为 Lal	information about current, voltage and temperature	mentioned in manufacturer's	江讯检测
LCS Testing	limits of their products	specifications.	LCS Testin



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 1-2F, Building A&3F, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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Clause	Requirement + Test	Result - Remark	Verdict
rca ,	133 rcs .	(2)	rca
	Manufacturers of batteries provides information regarding how to minimize and mitigate hazards to equipment manufacturers or end-users	Information for safety mentioned in manufacturer's specifications.	Р
	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
VSG IN	Do not allow children to replace batteries without adult supervision	USA TESTING	N/A
8.2	Small cell and battery safety information	Not small cells and batteries	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
可检测股份	- In case of ingestion of a cell or battery, seek medical assistance promptly	四統測股份	N/A

9	MARKING		Р
9.1	Cell marking	The final product is battery	N/A
	Cells are marked as specified in IEC 61960, except coin cells		N/A
	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	立ifflix	rap b
Med re	Batteries are marked as specified in IEC 61960, except for coin batteries	See marking plate on page 5.	Р
	Coin batteries whose external surface area is too small to accommodate the markings on the batteries show the designation and polarity	Not coin batteries.	N/A
	Batteries are marked with an appropriate caution statement	Batteries marked with an appropriate caution statement.	Р
	- Terminals have clear polarity marking on the external surface of the battery, or	The "+" and "-" polarity explicitly marked on surface of the battery.	Р
立讯检测股份	- Not be marked with polarity markings if the design of the external connector prevents reverse polarity connections	讯检测股份 cs Testing Lab	N/A





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Clause	Requirement + Test	Result - Remark	Verdict
LCS	1 Co .	C2	rcs .
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 and batteries.	N/A
	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
IS II	The following information are marked on or supplied with the battery:	Information for storage and disposal instructions mentioned in manufacturer's specifications.	P g Lab
	- Storage and disposal instructions		Р
	- Recommended charging instructions		Р

10	PACKAGING AND TRANSPORT	
	Packaging for coin cells are not be small enough to fit Not coin cells.	N/A
	within the limits of the ingestion gauge of Figure 3	

ANNEX A	CHARGING AND DISCHARGING RANGE OF SECONDARY LITHIUM ION CELLS FOR SAFE USE	-0.447	P	
A.1	General	和检测形型 ab		
A.2 Testing	Safety of lithium ion secondary battery	Complied.	Resti	
A.3	Consideration on charging voltage	Complied.	Р	
A.3.1	General		Р	
A.3.2	Upper limit charging voltage	4.2V applied.	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 4.2V applied. charging voltage is applied			
A.4	Consideration of temperature and charging current		Р	
A.4.1	General		P	
A.4.2	Recommended temperature range	See A.4.2.2.	⁽⁾⁾ P	
A.4.2.1	General	Time	Р	
A.4.2.2	Safety consideration when a different recommended temperature range is applied	Charging temperature declared by client is: 0~45°C	Р	
A.4.3	High temperature range	Not higher than the temperature specific in this standard.	N/A	
A.4.3.1	General		N/A	
A.4.3.2	Explanation of safety viewpoint		N/A	
A.4.3.3	Safety considerations when specifying charging conditions in the high temperature range		N/A	
A.4.3.4	Safety considerations when specifying a new upper limit in the high temperature range	~ 测版份	N/A	
A.4.4	Low temperature range	Charging low temperature declared by client is: 0°C	LiffP ^I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	





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-mil #61	IEC 62133-2	TROPORT NO. 2007 ROOG	rail		
Clause	Requirement + Test	Result - Remark	Verdict		
LC5 Test	ASA LCS TOSE ASA	CETE	LCS TEST		
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 No documents provided by manufacturer explaining the lower limit exceed 10°C, 0°C applied for testing in this report for safety consideration.				
A.4.5	Scope of the application of charging current	Sa um-	份 P		
A.4.6	Consideration of discharge	古讯 河河	Lab P		
A.4.6.1	General	MST LCS Testing	Р		
A.4.6.2	Final discharge voltage and explanation of safety viewpoint		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	-n.llin	Р		
A.5.5	Insertion of nickel particle in cylindrical cell	ab lab	N/A		
A.5.5.1	Insertion of nickel particle in winding core	CS Testing	N/A		
A.5.5.2	Marking the position of the nickel particle on both ends of the winding core of the separator		N/A		
A.5.6	Insertion of nickel particle in prismatic cell		Р		
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		
A.6.5	Caution for rewinding separator and electrode		_{II>} P		
A.6.6	Insulation film for preventing short-circuit	河流测度	^{'(γ)} P		
A.6.7	Caution when disassembling a cell	I I I Marting	Р		
A.6.8	Protective equipment for safety	Test res	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 MANUFACTURERS AND BATTERY	N/A
	ASSEMBLERS	正识和





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Clause	Requirement + Test	Result - Remark	Verdict

ANNEX C	RECOMMENDATIONS TO THE END-USERS	N/A

ANNEX D	MEASUREMENT OF THE INTERNAL AC RESISTANCE FOR COIN CELLS				
D.1	General	Not coin cells	N/A		
D.2	Method		N/A		
	A sample size of three coin cells is required for this measurement:	(See appended table D.2)	N/A		
	Coin cells with an internal resistance of less than or equal to 3 Ω are subjected to the testing according to Clause 6 and Table 1		N/A		
	Coin cells with an internal resistance greater than 3 Ω require no further testing		N/A		

ANNEX E	PACKAGING AND TRANSPORT	N/A

ANNEX F COMPONENT STANDARDS REFERENCES
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TABLE: Critical components information						Р
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard		k(s) of formity ¹⁾
Cell		602040	3.7V, 400mAh	IEC 62133-2:201 7, IEC 62133-2:201 7/AMD1:202 1		ed with iance
- Positive Electrode			LiCoO ₂ , NMP, PVDF, Conductive Additive, Aluminum Foil	 Tr i re	 检测用	及份 - Lab
- Negative Electrode	22 Leeffung	- 121 108	Graphite, CMC, SBR, Conductive Additive, Copper Foil	- Isa Los	Testin	
- Electrolyte			LiPF ₆ +EMC+EC+DEC			
- Separator			12µm, PP, Shutdown Temperature: 130°C			
Protection IC (U1)	Shenzhen Developer Microelectronics Co., Ltd	DW01	Overcharge Protection Voltage: 4.25±0.05V, Over-discharge Protection Voltage: 2.4±0.1V, Topr: -40°C~+85°C	ero Gi		ed with iance
MOSFET (U2, U3)	Shenzhen Developer Microelectronics Co., Ltd	8205A	V _{DS} :20V, V _{GS} : ±12V, I _D :6A, T _J : -55°C~+150°C		V. and Control	ed with iance
PCB	SHENZHEN Aishengxin Electronic CO LTD	ASX-M	130°C			
Wire	DongGuan Cheng XingElectronic COLtd	1007	22AWG, 80°C, 300V			



¹⁾ Provided evidence ensures the agreed level of compliance.



7.2.1	7.2.1 TABLE: Continuous charging at constant voltage (cells)						
Sample r	10.	Recommended charging voltage Vc (Vdc)	Recommended charging current I _{rec} (mA)	OCV before test (Vdc)	Resi	ults	
Cell #1		4.2	200	4.19	Р	ı	
Cell #2		4.2	200	4.19	Р	1	
Cell #3		4.2	200	4.19	Р		
Cell #4		4.2	200	4.18	Р	ı	
Cell #5	一個股份	4.2	200	4.19	P	设价	

- No fire or explosion
- No leakage

3.1 T	ABLE: External short-	circuit (cells)				Р
Sample no.	Ambient T (°C)	OCV before test (Vdc)	Resistance of circuit (mΩ)	Maximum case temperature rise ∆T, (°C)	Re	sults
	Samples charged	d at charging ten	nperature upper l	imit (45°C)		
Cell #6	55.4	4.17	84	120.5		Pint
Cell #7	55.4	4.18	86	117.8	7/3/2	PCS
Cell #8	55.4	4.17	85	119.2		Р
Cell #9	55.4	4.17	84	122.3		Р
Cell #10	55.4	4.18	88	118.5		Р
	Samples charge	d at charging te	mperature lower	limit (0°C)		
Cell #11	55.5	4.12	83	121.4		Р
Cell #12	55.5	4.12	82	117.5		Р
Cell #13	55.5	4.12	88	119.3	检测图	P
Cell #14	55.5	4.11	85	122.3	Testin	Р
Cell #15	55.5	4.11	87	120.7		Р

Supplementary information:

- No fire or explosion







10: 110 B						
7.3.2	TABLE: Externa	al short-circuit	t (batteries)			P
Sample no.	Ambient (°C)	OCV before test (Vdc)	Resistance of circuit (mΩ)	Maximum case temperature rise ∆T, (°C)	Component single fault condition	Results
Battery #4	23.1	4.17	85	105.4	MOSFET (U2) Short circuit	Р
Battery #5	23.1	4.18	87	107.2	MOSFET (U2) Short circuit	Р
Battery #6	23.1	4.17	84	110.3	MOSFET (U2) Short circuit	展份P ing Lab
Battery #7	23.1	4.17	86	108.4	MOSFET (U2) Short circuit	Р
Battery #8	23.1	4.17	85	23.5		Р

- No fire or explosion

5 T	ABLE: Crush (cells)	1		F	
Sample no.	OCV before (Vdc)	e test OCV at removal of crushing force (Vdc)		Results	
	Samples charge	d at charging temperature	upper limit (45°C)		
Cell #29	4.17	4.17	13	Р	
Cell #30	4.17	4.17	13	Р	
Cell #31	4.17	4.17	13	Р	
Cell #32	4.17	4.17	13	Р	
Cell #33	4.17	4.17	13	Р	
	Samples charge	ed at charging temperature	e lower limit (0°C)		
Cell #34	4.11	4.11	13	A TIMEP	
Cell #35	4.11	4.11	13	S Testing P	
Cell #36	4.12	4.12	13	Р	
Cell #37	4.12	4.12	13	Р	
Cell #38	4.11	4.11	13	Р	



- No fire or explosion







7.3.6	TABLE: Over-charging of battery					Р	
Constant charg	onstant charging current (A): 0.8						_
Supply voltage (Vdc):				5.88		_	
Sample no	Sample no. OCV before charging Total charging time Maximum outer case (Vdc) (minute) temperature (°C)		Re	esults			
Battery #12	2	3.32	12	20	33.5		Р
Battery #13	3	3.35	12	20	35.2		Р
Battery #14	4	3.37	12	20	34.4		Р
Battery #15	5.测股	3.32	120		33.7	THE PA	
	100	[017]	4 11/11	20	37.3	411	P

- No fire or explosion

7.3.7	TABLE: Forced discharge (cells)					Р	
Sample n	0.	OCV before application of reverse charge (Vdc)	Measured reverse charge It (mA)	Lower limit discharge voltage (Vdc)	Resi	ults	
Cell #39)	3.35	400	2.75	Р		
Cell #40)	3.36	400	2.75	Р	上讯检测	
Cell #41		3.38	400	2.75	I P	LCS Test	
Cell #42)	3.33	400	2.75	Р		
Cell #43	}	3.32	400	2.75	Р	ı	

Supplementary information:

- No fire or explosion















Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 1-2F, Building A&3F, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen,

Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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7.3.8.1 TABLE: Vibration			Testing Lab	VS I IST	esting Lab	I Prestir
Sample no) .	OCV before test (Vdc)	OCV after test (Vdc)	Mass before test (g)	Mass after test (g)	Results
Battery #17		4.17	4.17	10.157	10.157	Р
Battery #1	8	4.17	4.17	10.144	10.144	Р
Battery #19 4.1		4.17	4.17	10.132	10.132	Р

- No fire or explosion
- No rupture
- No leakage
- No venting

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)	Results	
Battery #20		4.17	4.17	10.087	10.087	Р	
Battery #21		4.17	4.17	10.162	10.162	Р	
Battery #22		4.17	4.17	10.077	10.077	Р	

Supplementary information:

- No fire or explosion
- No rupture
- No leakage
- No venting













7.3.9	7.3.9 TABLE: Forced internal short circuit (cells)					
Sample no.	Chamber ambient T (°C)	OCV before test (Vdc)	Particle location ¹⁾	Maximum applied pressure (N)	Re	esults
	Samples charge	ed at charging tem	perature upper li	mit (45°C)		
Cell #44	45	4.17	1	400		Р
Cell #45	45	4.17	1	400		Р
Cell #46	45	4.17	1	400		Р
Cell #47		4.17	股份 1	400	Fill BE	R
Cell #48	esting Lab 45	4.17	ng Lab 1	400	恒 jig	\mathbf{b}_p
	Samples charg	jed at charging tem	perature lower li	mit (0°C)		
Cell #49	0	4.12	1	400		Р
Cell #50	0	4.12	1	400		Р
Cell #51	0	4.11	1	400		Р
Cell #52	0	4.11	1	400		Р
Cell #53	0	4.12	1	400		Р

- 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

D.2	TABLE:		NIA		
Sample no. An		Ambient T (°C)	Store time (h)	Results 1)	
					*
	ars (A)				ar 4A
Supplement	ary information	on:	在话 ^{他们的Lab}	立证	位测版 Lab

-- End of Report --



ab 拉讯检测股功 LCS Testing Lab

Attachment 1

Photo Documentation



Page 1 of 3

Report No.LCSA05095121S

Product: Li-ion Battery

Type Designation: 602040

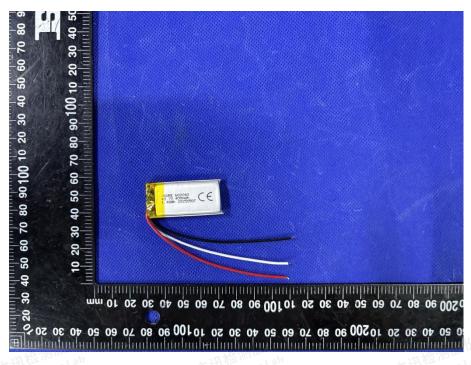


Figure 1 Front view of battery

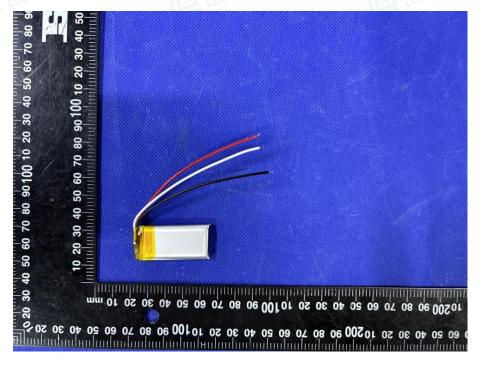


Figure 2 Back view of battery



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 1-2F, Building A&3F, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com Scan code to check authenticity



Attachment 1

Photo Documentation



Page 2 of 3

Report No.LCSA05095121S

Product: Li-ion Battery

602040 Type Designation:

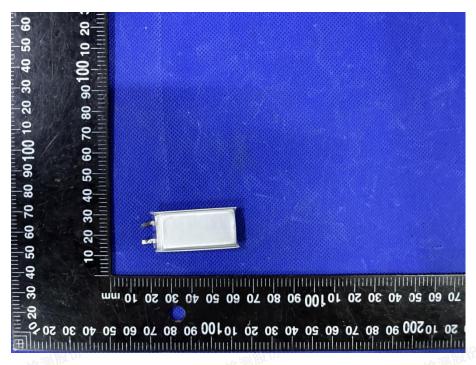


Figure 3 Front view of cell

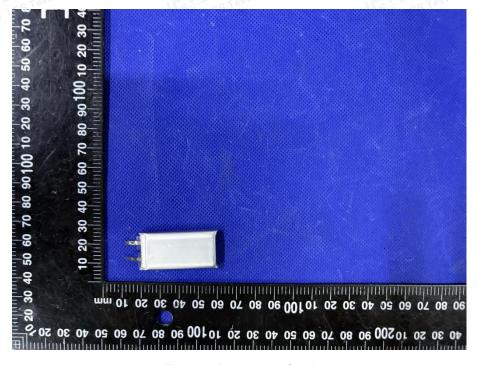


Figure 4 Back view of cell



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Add: 1-2F, Building A&3F, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen,

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Attachment 1

Photo Documentation



Page 3 of 3

Report No.LCSA05095121S

Product: Li-ion Battery

Type Designation: 602040

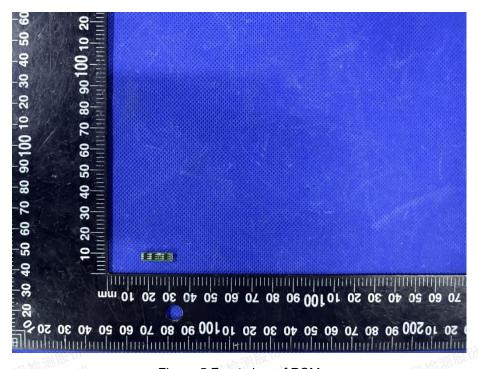


Figure 5 Front view of PCM

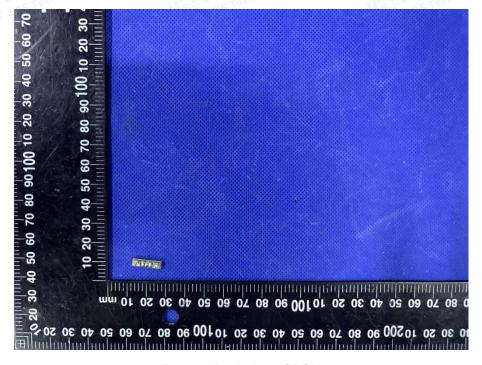


Figure 6 Back view of PCM



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