

Children's Product Certificate

Report No.: A32001859(6)
Test Period : 2026-02-04 to 2026-03-11.

Identification of the product covered by this certificate:

Product Name: LED drawing board / memo board
Product Description: Rechargeable LED drawing board, with one-click switching of 7 color backlight options, built-in eco-friendly lithium battery, supports long-duration wireless use, portable, and suitable for multiple scenarios.
Model No.: JSY-E007、JSY-E007A、JSY-E007B、JSY-E007C、JSY-E007D、
JSY-E007E、JSY-E007F、JSY-E007G

Manufacturer's Name: Shenzhen Jingshengyuan Electronic Products Co., Ltd.
Manufacturer's Address: Room 201, Building A2, Juyuan Industrial Zone, Qiaotang Road, Tangwei Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China.
Manufacture Place: Shenzhen, Guangdong, China
Manufacture Date: 2025-12

Importer's Name: Shenzhen Jingshengyuan Electronic Products Co., Ltd.
Importer's Address: Room 201, Building A2, Juyuan Industrial Zone, Qiaotang Road, Tangwei Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China.
Importer's Telephone No.: +86 15889599616

Contact information for maintaining test records:

Contact Name : Xu Li
Company Address: Room 201, Building A2, Juyuan Industrial Zone, Qiaotang Road, Tangwei Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China.
Telephone No.: 15889599616
Email Address: lixwt@163.com

Third party, CPSC-accepted laboratory:

Name: Yubiao Testing and Certification Laboratory (Shenzhen) Limited
(CMA Testing and Certification Laboratory (Shenzhen) Limited-(Yubiao))
(CPSC Identification Number for Laboratory: 1431)
Address: 5/F., Block 2, Runheng Electronic Park, Liuxian 2nd Road, Xin'an Subdistrict, Bao'an District, Shenzhen, Guangdong, China 518101
Telephone No.: (86) (755) 8835 0808 Email Address: info.sz@cmatesting.org



Children's Product Certificate

CPSC children's product safety rule to which this product is being certified:

<u>Test Item</u>	<u>Test Result</u>
16 CFR Part 1250, ASTM F963-23 Standard of Consumer Safety Specification for Toy Safety, the test list is as follows:	
(ASTM F963-23) 4.1 Material Quality – Visual Inspection	Passed
(ASTM F963-23) 4.2 Flammability	Passed
(ASTM F963-23) 4.3 Toxicology	
4.3.5 Heavy elements	
4.3.5.1 Heavy elements in Paints and similar surface coating materials	Passed
4.3.5.2 Heavy Elements in Substrate Materials	Passed
4.3.8 Phthalates	Passed
(ASTM F963-23) 4.6.1 Small objects	Not Applicable
(ASTM F963-23) 4.6.2 Mouth-actuated toys	Not Applicable
(ASTM F963-23) 4.6.3 Small objects labeling requirement	Not Applicable
(ASTM F963-23) 4.7 Accessible edges	Passed
(ASTM F963-23) 4.9 Accessible points	Passed
(ASTM F963-23) 4.11 Nails and fasteners	Passed
(ASTM F963-23) 4.12 Plastic film	Passed
(ASTM F963-23) 4.25 Battery-operated Toys	Passed
(ASTM F963-23) 5 Labeling requirements	Passed
(ASTM F963-23) 6 Instructional literature	Passed
(ASTM F963-23) 7 Producer's markings	Passed
CPSC 16 CFR 1500.48 - Sharp points	Passed
CPSC 16 CFR 1500.49 - Sharp edges	Passed
CPSC 16 CFR 1501 - Small parts	Not Applicable
CPSC 16 CFR 1500.3(c)(6)(vi) - Flammable solid	Passed
U.S. Consumer Product Safety Improvement Act of 2008 (CPSIA) - Sec. 103 : Tracking Labels for Children's Products	Passed
U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 101: Children's Products Containing Lead; Lead Paint Rule	Passed
U.S. Consumer Product Safety Commission (CPSC) Regulation- 16 CFR Part 1303 Ban of Lead - Containing Paint and Certain Consumer Products Bearing Lead - Containing Paint	Passed
U.S. Consumer Product Safety Commission (CPSC) Regulation- 16 CFR Part 1307 - Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates	Passed

I (we) hereby declares that the submitted sample(s) has been tested for and in accordance with the rules and standards above.

Signature

(Name in block letters & company)

Xu Li

Shen zhen jingsheng yuan Electronic Products CO., Ltd.



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(CMA Testing and Certification Laboratory (Shenzhen) Limited-(Yubiao))
(CPSC Identification Number for Laboratory: 1431)
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(ASTM F963-23) 4.2 Flammability	Passed
(ASTM F963-23) 4.3 Toxicology	
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4.3.5.2 Heavy Elements in Substrate Materials	Passed
4.3.8 Phthalates	Passed
(ASTM F963-23) 4.6.1 Small objects	Not Applicable
(ASTM F963-23) 4.6.2 Mouth-actuated toys	Not Applicable
(ASTM F963-23) 4.6.3 Small objects labeling requirement	Not Applicable
(ASTM F963-23) 4.7 Accessible edges	Passed
(ASTM F963-23) 4.9 Accessible points	Passed
(ASTM F963-23) 4.11 Nails and fasteners	Passed
(ASTM F963-23) 4.12 Plastic film	Passed
(ASTM F963-23) 4.25 Battery-operated Toys	Passed
(ASTM F963-23) 5 Labeling requirements	Passed
(ASTM F963-23) 6 Instructional literature	Passed
(ASTM F963-23) 7 Producer's markings	Passed
CPSC 16 CFR 1500.48 - Sharp points	Passed
CPSC 16 CFR 1500.49 - Sharp edges	Passed
CPSC 16 CFR 1501 - Small parts	Not Applicable
CPSC 16 CFR 1500.3(c)(6)(vi) - Flammable solid	Passed
U.S. Consumer Product Safety Improvement Act of 2008 (CPSIA) - Sec. 103 : Tracking Labels for Children's Products	Passed
U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 101: Children's Products Containing Lead; Lead Paint Rule	Passed
U.S. Consumer Product Safety Commission (CPSC) Regulation- 16 CFR Part 1303 Ban of Lead - Containing Paint and Certain Consumer Products Bearing Lead - Containing Paint	Passed
U.S. Consumer Product Safety Commission (CPSC) Regulation- 16 CFR Part 1307 - Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates	Passed

I (we) hereby declares that the submitted sample(s) has been tested for and in accordance with the rules and standards above.

Signature

(Name in block letters & company)

Xu Li

Shen zhen jingsheng yuan Electronic Products CO., Ltd.





TEST REPORT

Report No : A32001859(6) Date: 2026-03-13

Application No : L3201208(5)

Applicant : Shenzhen Jingshengyuan Electronic Products Co., Ltd.
Room 201, Building A2, Juyuan Industrial Zone, Qiaotang Road, Tangwei
Community, Fuhai Street, Bao 'An District, Shenzhen, Guangdong, China.

Factory : LED drawing board / memo board
Room 201, Building A2, Juyuan Industrial Zone, Qiaotang Road, Tangwei
Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China.

Sample Description : The submitted sample(s) stated to be :
Product Name : LED drawing board / memo board
Model No. : JSY-E007; JSY-E007A/JSY-E007B/JSY-E007C/JSY-E007D/
JSY-E007E/JSY-E007F/JSY-E007G
No. of Sample(s) submitted : 1 set
Labelled Age Grade : 6 years and older
Appropriate Age Grade : 6 years and older of age
Tested Age Grade : 6 years and older of age
Country of Origin : China
Country of Destination : US

Date Received : 2026-02-04. 2026-02-12. 2026-03-03. 2026-03-11.

Test Period : 2026-02-04 to 2026-03-11.

Test Requested	Test Item	Result
I.	ASTM F963-23 Standard of Consumer Safety Specification for Toy Safety :	
	- Physical and Mechanical Tests	Passed
	- Flammability Test	Passed
	- 4.3 Toxicology	
	- 4.3.5 Heavy Elements	
	- 4.3.5.1 Paint and Similar Surface-coating Materials	Passed
	- 4.3.5.2 Toy substrate Materials	Passed
	- 4.3.6 Cleanliness of Cosmetics, Liquids, Pastes, Putties, Gels, Powders, and Items of Avian Feather Origin	
	- 4.3.6.3 Cleanliness of Materials	Not Applicable
	- 4.3.8 Phthalates	Passed
	- Battery Operated Toy Test	Passed

Authorized Signature



For and on behalf of
Yubiao Testing and Certification Laboratory (Shenzhen) Limited
OuYang Jingde / Samuel
Deputy Manager

Linny
Linny Tu
Senior Technical Officer



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TEST REPORT

Report No : A32001859(6)

Date: 2026-03-13

Application No : L3201208(5)

Test Requested	Test Item	Result
II.	U.S. Consumer Product Safety Commission (CPSC) Regulations	
	- 16 CFR 1500.48 - Sharp points	Passed
	- 16 CFR 1500.49 - Sharp edges	Passed
	- 16 CFR 1501 - Small parts	Not Applicable
	- 16 CFR 1500.3(c)(6)(vi) - Flammable solid	Passed
III.	U.S. Consumer Product Safety Improvement Act of 2008 (CPSIA) - Sec. 103 : Tracking Labels for Children's Products	Passed
IV.	U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 101: Children's Products Containing Lead; Lead Paint Rule	Passed
V.	U.S. Consumer Product Safety Commission (CPSC) Regulation- 16 CFR Part 1303 Ban of Lead - Containing Paint and Certain Consumer Products Bearing Lead - Containing Paint	Passed
VI.	U.S. Consumer Product Safety Commission (CPSC) Regulation- 16 CFR Part 1307 - Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates	Passed

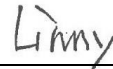
Test Result : Refer to the result pages for details.

Remark : The submitted samples were requested by the client to be tested in composite form. The results for composite test part(s) are calculated based on the total weight.

For and on behalf of
Yubiao Testing and Certification Laboratory (Shenzhen) Limited

Authorized Signature :


Ouyang Jingde / Samuel
Deputy Manager


Linny Tu
Senior Technical Officer

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TEST REPORT

Report No : A32001859(6) Date: 2026-03-13

Application No : L3201208(5)

Test Result :

I. ASTM F963-23 Standard of Consumer Safety Specification for Toy Safety

Clause	Title/Description	Remark*
4.1	Material Quality – Visual Inspection	Passed
4.2	Flammability	Passed (refer to Appendix for details)
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Paint and Similar Surface-coating Materials	Passed (See Result Page)
4.3.5.2	Toy substrate Materials	Passed (See Result Page)
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, Powders, and Items of Avian Feather Origin	
4.3.6.3	The cleanliness of these products used in toys and their ingredients shall be determined	NA
4.3.7	Stuffing Materials	NA
4.3.8	Phthalates	Passed (See Result Page)
4.5	Sound-producing toys	NA
4.6.1	Small objects (for children under 36 months) 16 CFR 1501	NA
4.6.2	Mouth-actuated toys	NA
4.6.3	Small objects labeling requirement	NA
4.7	Accessible edges 16 CFR 1500.49 Sharp metal or glass edges	Passed
4.8	Projections	NA
4.9	Accessible points 16 CFR 1500.48 Sharp points	Passed
4.10	Wires or rods	NA
4.11	Nails and fasteners	Passed



TEST REPORT

Report No : A32001859(6)

Date: 2026-03-13

Application No : L3201208(5)

Test Result :

<u>Clause</u>	<u>Title/Description</u>	<u>Remark*</u>
4.12	Plastic film	Passed
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices (such as helmets, hats, and goggles)	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles 16 CFR 1510	NA
4.24	Squeeze toys	NA
4.25	Battery-operated Toys	Passed (refer to Appendix for details)
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art Materials Remark: Test result of Clause 4.29 only conduct on Labeling review.	Passed (See Remark)
4.30	Toy gun marking	NA
4.31	Balloons 16 CFR 1500.19	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles 16 CFR 1500.19	NA



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Date: 2026-03-13

Application No : L3201208(5)

Test Result :

<u>Clause</u>	<u>Title/Description</u>	<u>Remark*</u>
4.34	Balls 16 CFR 1500.18(a)(17) / 16 CFR 1500.19	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw entrapment in handles and steering wheels	NA
4.40	Expanding Materials	NA
4.41	Toys Chests	NA
5	Labeling requirements	
5.1.2	Tracking Label requirements	Passed
5.2	Age Grade Labeling	Passed
5.3	Safety labeling requirements	NA
5.4	Aquatic toys	NA
5.5	Crib and playpen toys	NA
5.6	Mobiles	NA
5.7	Stroller and carriage toys	NA
5.8	Toys intended to be assembled by an adult	NA
5.9	Simulated protective devices	NA
5.10	Toys with functional sharp edges or points	NA
5.11	Small objects, small balls, marbles, and balloons 16 CFR 1500.19	NA
5.12	Art Materials	Passed
5.13	Electric toys	NA
5.15	Promotional materials	Passed
5.16	Magnets	NA

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TEST REPORT

Report No : A32001859(6) Date: 2026-03-13

Application No : L3201208(5)

Test Result :

Clause	Title/Description	Remark*
6	Instructional literature	
6.1	Definition and description	Passed
6.2	Crib and playpen toys	NA
6.3	Mobiles	NA
6.4	Toys intended to be assembled by an adult	NA
6.7	Toys in contact with food	NA
6.8	Toy Chests	NA
7	Producer's markings	
7.1	Producer's markings	Passed
7.3	Toy Chests	NA

Remark : The sample(s) were subjected to the normal use and abuse tests in according with Clause 8.5 Normal Use Testing, 8.7 Impact test, 8.8 Torque test, 8.9 Tension test, 8.10 Compression test and 8.12 Flexure test whichever was applicable.

* Abbreviation : NA = Not Applicable



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Report No : A32001859(6) Date: 2026-03-13

Application No : L3201208(5)

Test Result :

Appendix

Details of Test Result

ASTM F963-23

Clause Title/Description

4.2 Flammability

a. Materials other than textiles (16 CFR 1500.3 (c) (6) (vi))

Test method : Annex A5 (16 CFR 1500.44)

The results of the burning rate of the most severe part = 0.03 in/seconds.

The burning rate of the most severe part = 0.0 in/seconds.
(Round off to the nearest tenth)

Note : Maximum permissible burning rate = 0.1 in/second.
DNI = Did Not Ignite

b. Textile fabrics
Test method : Annex A6 (16 CFR 1610.6)

After washing		
Sample	Burning time (seconds)	Code
1 Ave.	- NIL	- DNI

Remark : Requirement (min.) ≥ 3.5 seconds for plain surface fabric
Remark : Requirement (min.) ≥ 4 seconds for raised surface fabric

Note 1 : DNI denotes Did Not Ignite
IBE denotes Ignite but extinguished
Note 2 : Sample 1 = LED drawing board / memo board

Note: All styles of submitted sample(s) (and its accessories) was/were tested, the above result only showed the most severe burn rate.



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Date: 2026-03-13

Application No : L3201208(5)

Test Result :

I. ASTM F963-23 Clause 4.3: Toxicology – Clause 4.3.5 Heavy Elements

Test Method : As stated in the above specification. Acid digestion followed by Atomic Absorption Spectrophotometry for total lead analysis. Diluted acid extraction followed by Inductively Coupled Plasma Spectrometry (ICP-OES) for soluble heavy element analysis

Clause	Title/Description	Remark*
4.3.5.1 (1)	Paint and Similar Surface-Coating, total lead	Passed

Test Item	Total Lead
Maximum Permissible Level (mg/kg)	90
Test Part(s)	Result (mg/kg)
1+2+3	<10
4+5+6	<10
7+54+55	<10
32	<10
51+52+53	<10

Clause	Title/Description	Remark*
4.3.5.1 (2)	Paint and Similar Surface-Coating, soluble heavy elements	Passed

Test Item	As	Hg	Se	Cd	Sb	Pb	Cr	Ba
Maximum Permissible Limit (mg/kg)	25	60	500	75	60	90	60	1000
Test Part(s)	Test Result (mg/kg)							
1	<5	<5	<5	<5	<5	<5	<5	<20
2	<5	<5	<5	<5	<5	<5	<5	<20
3	<5	<5	<5	<5	<5	<5	<5	<20
4	<5	<5	<5	<5	<5	<5	<5	<20
5	<5	<5	<5	<5	<5	<5	<5	<20
6	<5	<5	<5	<5	<5	<5	<5	<20
7	<5	<5	<5	<5	<5	<5	<5	<20
32	<5	<5	<5	<5	<5	<5	<5	<20
51	<5	<5	<5	<5	<5	<5	<5	<20
52	<5	<5	<5	<5	<5	<5	<5	<20
53	<5	<5	<5	<5	<5	<5	<5	<20
54	<5	<5	<5	<5	<5	<5	<5	<20
55	<5	<5	<5	<5	<5	<5	<5	<20

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Date: 2026-03-13

Application No : L3201208(5)

Test Result :

I. ASTM F963-23 Clause 4.3: Toxicology – Clause 4.3.5 Heavy Elements

Clause	Title/Description	Remark*
4.3.5.2 (2)(a)	Toy substrate materials, total lead content	Passed

Test Item	Total Lead
Maximum Permissible Limit (mg/kg)	100
Test Part(s)	Test Result (mg/kg)
8+9+10	<10
11+12+13	<10
14+15+28	<10
16+25+26	<10
17+18+19	<10
20+21+22	<10
23+24+27	<10
29	<10
30	<10
31	<10
33	<10
41	<10
42	<10
43+44+45	<10
46+47+48	<10
49+50	<10
56	<10
57	<10
58	44
59	<10
60	<10

Note : • < denotes less than, ≥ denotes greater than or equal to
• As = Arsenic; Hg = Mercury; Se = Selenium; Cd = Cadmium; Sb = Antimony; Pb = Lead;
Cr = Chromium; Ba = Barium



TEST REPORT

Report No : A32001859(6)

Date: 2026-03-13

Application No : L3201208(5)

Test Result :

I. ASTM F963-23 Clause 4.3: Toxicology – Clause 4.3.8 Phthalates

Test Method : With reference to CPSC-CH-C1001-09.4, followed by Gas Chromatography - Mass Spectrometer (GC-MS) analysis

Clause	Title/Description	Remark*
4.3.8	Accessible plasticized component, Phthalates	Passed

Test Item	DEHP	DBP	BBP	DINP	DIBP	DPENP	DHEXP	DCHP
Maximum Limit (% w/w)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Test Part(s)	Result (% w/w)							
1+2+3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4+5+6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
7+54+55	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8+9+10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11+12+13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
14+15+28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
16+25+26	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
17+18+19	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
20+21+22	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23+24+27	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
32	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
33	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
43+44+45	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
46+47+48	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
49+50	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
51+52+53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
60	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Note : • % w/w denotes percentage by weight, < denotes less than
• DEHP = Di (2-ethylhexyl) Phthalate; DBP = Dibutyl Phthalate; BBP = Butyl Benzyl Phthalate; DINP = Diisononyl Phthalate; DIBP =diisobutyl phthalate; DPENP =di-n-pentyl phthalate; DHEXP =di-n-hexyl phthalate ; DCHP =dicyclohexyl phthalate



TEST REPORT

Report No : A32001859(6)

Date: 2026-03-13

Application No : L3201208(5)

Test Result :

I. ASTM F963-23 - 4.25 Battery Operated Toy Test

Rating : 1 x 3.7V 1000 mAh rechargeable battery (Included)

<u>Clause</u>	<u>Title/Description</u>	<u>Remark*</u>
4.25	Battery - operated toys	
4.25.1	Marking on toys	NA
4.25.1.1	Marking on toys with non-replaceable batteries	Passed
4.25.2	The maximum allowable dc potential	NA
4.25.3	Possibility of charging any primary battery	NA
4.25.4	Battery Accessibility	Passed
4.25.5	Separation of different source	NA
4.25.6	The surfaces of the batteries shall not achieve temperature exceeding 71°C	Passed
4.25.6.1	Temperature measurement (normal operation)	Passed
4.25.6.2	Temperature measurement (stalled motor condition)	NA
4.25.7	General temperature requirements and combustion hazard	Passed
4.25.8	Marking on instruction	NA
4.25.9	Battery-Powered Ride-On Toys	NA
4.25.10	Toys that contain secondary cells or secondary batteries	Passed
5.3	Safety labeling requirement	NA
5.14	Marking of non-replaceable battery toys	Passed
5.14.2	Button or Coin Cell Batteries	NA
6.5	Marking of Battery-Operated Toys	NA
6.9	Instruction to retain the tool for future use	NA

* Abbreviation : NA = Not Applicable



TEST REPORT

Report No : A32001859(6)

Date: 2026-03-13

Application No : L3201208(5)

Test Result :

II. U.S. Consumer Product Safety Commission (CPSC) Regulations (16 CFR Part 1500.3(c)(6)(vi), 1500.48, 1500.49, 1501)

<u>Clause</u>	<u>Title/Description</u>	<u>Remark*</u>
1500.3(c)(6)(vi)	Flammability test on solid materials Test method : 16 CFR 1500.44 The results of the burning rate of the most severe part = 0.03 in/seconds. The burning rate of the most severe part = 0.0 in/seconds. (Round off to the nearest tenth) Note : Maximum permissible burning rate = 0.1 in/second. DNI = Did Not Ignite	Passed
1500.48	Accessible sharp points (Before and after abuse tests)	Passed
1500.49	Accessible sharp edges (Before and after abuse tests)	Passed
1501	Test for small parts (for toys intended for use by children under three years of age)	NA

Note : Abuse tests included impact test, torque test, tension test and compression test whichever was applicable

* Abbreviation : NA = Not Applicable

III. Marking review in accordance with U.S. Consumer Product Safety Improvement Act of 2008 (CPSIA) - Sec. 103 : Tracking Labels for Children's Products.

The submitted sample was found to bear the permanent and legible markings

- (a) The name of the manufacturer or private labeler
- (b) The location and date of production of the product
- (c) Cohort information (including the batch, run number, or other identifying characteristic)

Note : The tracking label assessment was based on the product and the information provided by the applicant. There was no verification on the validity of such information.



TEST REPORT

Report No : A32001859(6)

Date: 2026-03-13

Application No : L3201208(5)

Test Result :

IV. U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 101: Children's Products Containing Lead; Lead Paint Rule

Test Method : With reference to CPSC-CH-E1003-09.1 and CPSC-CH-E1002-08.3 and CPSC-CH-E1001-08.3, followed by Atomic Absorption Spectrophotometry analysis.

For paint and similar surface-coating materials

Test Item	Total Lead
Permissible Limit (mg/kg)	90
Test Part(s)	Test result (mg/kg)
1+2+3	<10
4+5+6	<10
7+54+55	<10
32	<10
51+52+53	<10

For materials and substrate

Test Item	Total Lead
Permissible Limit (mg/kg)	100
Test Part(s)	Test result (mg/kg)
8+9+10	<10
11+12+13	<10
14+15+28	<10
16+25+26	<10
17+18+19	<10
20+21+22	<10
23+24+27	<10
29	<10
30	<10
31	<10
33	<10
34+35+36	<10
37+38	<10



TEST REPORT

Report No : A32001859(6)

Date: 2026-03-13

Application No : L3201208(5)

Test Result :

IV. U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 101: Children's Products Containing Lead; Lead Paint Rule

For materials and substrate

Test Item	Total Lead
Permissible Limit (mg/kg)	100
Test Part(s)	Test result (mg/kg)
39	<10
40	<10
41	<10
42	<10
43+44+45	<10
46+47+48	<10
49+50	<10
56	<10
57	<10
58	44
59	<10
60	<10

Note : • < denotes less than

V. U.S. Consumer Product Safety Commission (CPSC) Regulation- 16 CFR Part 1303 Ban of Lead - Containing Paint and Certain Consumer Products Bearing Lead - Containing Paint

Test Method : With reference to CPSC-CH-E1003-09.1, followed by Atomic Absorption Spectrophotometry analysis.

Test Item	Total Lead
Permissible Limit (% w/w)	0.009
Test Part(s)	Test Result (% w/w)
1+2+3	<0.0010
4+5+6	<0.0010
7+54+55	<0.0010
32	<0.0010
51+52+53	<0.0010

Note : • < denotes less than
• % w/w denotes percentage by weight



TEST REPORT

Report No : A32001859(6)

Date: 2026-03-13

Application No : L3201208(5)

Test Result :

VI. U.S. Consumer Product Safety Commission (CPSC) Regulation-16 CFR Part 1307 - Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates

Test Method : With reference to CPSC-CH-C1001-09.4, followed by Gas Chromatography - Mass Spectrometer (GC-MS) analysis.

Test Item	DEHP	DBP	BBP	DINP	DIBP	DPENP	DHEXP	DCHP
Maximum Limit (% w/w)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Test Part(s)	Result (% w/w)							
1+2+3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4+5+6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
7+54+55	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8+9+10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11+12+13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
14+15+28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
16+25+26	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
17+18+19	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
20+21+22	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23+24+27	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
32	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
33	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
43+44+45	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
46+47+48	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
49+50	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
51+52+53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
60	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Note :

- < denotes less than
- % w/w denotes percentage by weight
- DEHP = Di (2-ethylhexyl) Phthalate; DBP = Dibutyl Phthalate; BBP = Butyl Benzyl Phthalate; DINP = Diisononyl Phthalate; DIBP = diisobutyl phthalate; DPENP = di-n-pentyl phthalate; DHEXP = di-n-hexyl phthalate ; DCHP = dicyclohexyl phthalate

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019/CNAS GL015:2022.

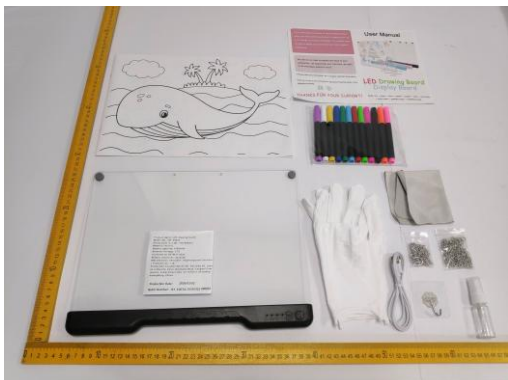
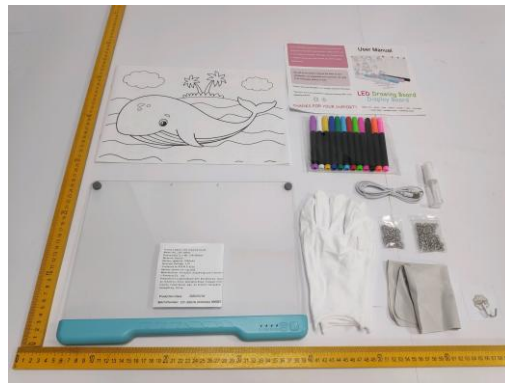
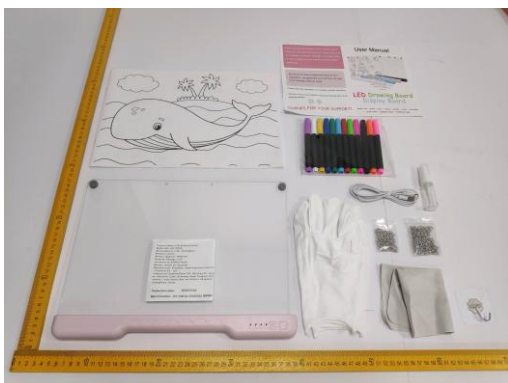
TEST REPORT

Report No : A32001859(6)

Date: 2026-03-13

Application No : L3201208(5)

Appendix





TEST REPORT

Report No : A32001859(6)

Date: 2026-03-13

Application No : L3201208(5)

Appendix

- Test Part(s) :
1. Green ink (pen)
 2. Blue ink (pen)
 3. Orange ink (pen)
 4. Pale purple ink (pen)
 5. Pink ink (pen)
 6. Yellow ink (pen)
 7. Red ink (pen)
 8. Black plastic (main body of pen)
 9. Green plastic (cover and stopper of pen)
 10. Blue plastic (cover and stopper of pen)
 11. Pale purple plastic (cover and stopper of pen)
 12. Orange plastic (cover and stopper of pen)
 13. Pink plastic (cover and stopper of pen)
 14. Yellow plastic (cover and stopper of pen)
 15. Red plastic (cover and stopper of pen)
 16. White fabric (nib of pen)
 17. Transparent plastic (LED board)
 18. Grey plastic (stopper of LED board)
 19. White plastic (base of LED board,)
 20. Transparent plastic (main body of spray bottle)
 21. Transparent plastic (cover of spray bottle)
 22. White plastic (spray head of spray bottle)
 23. White plastic (bottleneck of spray bottle)
 24. Translucent plastic (tube of spray bottle)
 25. White fabric with white thread (gloves)
 26. Grey fabric (wiping cloth)
 27. Transparent plastic with adhesive (base of sticky hook)
 28. Transparent plastic (sticky hook)
 29. Silvery metal (sticky hook)
 30. Silvery metal (chain)
 31. Silvery metal (hook of chain)
 32. Black coating (drawing paper)
 33. White paper (drawing paper)
 34. White plastic (body of USB plug)
 35. White plastic (body of Tape-C plug)

TEST REPORT

Report No : A32001859(6)

Date: 2026-03-13

Application No : L3201208(5)

Appendix

36. White plastic (inside USB plug)
37. Black plastic (inside Tape-C plug)
38. White plastic (cable of USB)
39. Silvery metal (USB plug)
40. Bright silvery metal (tape-C plug)
41. Bright silvery metal (chain)
42. Silvery metal (staple of drawing paper)
43. Black plastic (base of LED board)
44. Blue plastic (base of LED board)
45. Pink plastic (base of LED board)
46. Deep green plastic (cover and stopper of pen)
47. White plastic (cover and stopper of pen)
48. Pale pink plastic (cover and stopper of pen)
49. Pale blue plastic (cover and stopper of pen)
50. Black plastic (cover and stopper of pen)
51. Deep green ink (pen)
52. White ink (pen)
53. Pale pink ink (pen)
54. Pale blue ink (pen)
55. Black ink (pen)
56. Silvery metal (clasp of chain)
57. Silvery metal (double ring of nu)
58. Silvery metal (nut)
59. Silvery metal (screw)
60. White paper with black printing and adhesive (sticker)

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



中国认可
国际互认
检测
TESTING
CNAS L16465

Version: 1.0

**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.....: ECTBF0A07C036

Date of issue.....: 2026-01-29

Total number of pages.....: 26 pages

Tested by (name + signature).....: Emmy.Li

Emmy . Li

Checked by (name + signature).....: Eddie.Shi

Eddie . Shi

Approved by (name + signature)....: Eric.Ren

Eric . Ren

Applicant's name.....: Dongguan Yiyuanda Energy Technology Co., Ltd

Address.....: Room 402, Building 3, No. 180, Tanghuan Village Road, Fenggang Town, Dongguan City, Guangdong Province

Test specification:

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

Test procedure.....: Type Test

Test result.....: Pass

Non-standard test method.....: N/A

Testing laboratory.....: Shenzhen ECT Testing Technology Co.,Ltd

Address.....: B121,B202,B206-1, Block A.B, 107 Chuangzhi Park, Huiju Xinqiao, No.18, Shangnan Shangliao Industrial Road, Shangliao Community, Xinqiao Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Testing location.....: As above

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

Trade Mark.....: N/A

Manufacturer.....: Same as applicant

Model/Type reference.....: 102050

Ratings.....: 3.7V, 1000mAh, 3.7Wh

Note:

This report shall not be reproduced except in full, without the written approval of Shenzhen ECT Testing Technology Co.,Ltd This report may be altered or revised by Shenzhen ECT Testing Technology Co.,Ltd personnel only, and shall be noted in the revision section of the report. The test result in the report only apply to the tested samples.

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

Attachment 1: Photo Documentation (23 to 26 pages).

Summary of testing:**Tests performed (name of test and test clause):**

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);

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

Testing location:

Shenzhen ECT Testing Technology Co.,Ltd
B121,B202,B206-1, Block A.B, 107 Chuangzhi Park, Huiju Xinqiao, No.18, Shangnan Shangliao Industrial Road, Shangliao Community, Xinqiao Subdistrict, 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/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: N/A (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)

Information on uncertainty of measurement:

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

IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

Copy of marking plate:

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

Li-ion Battery
Model: 102050
3.7V, 1000mAh, 3.7Wh
1INP10/20/50 YYYY/MM/DD
Dongguan Yiyuanda Energy Technology Co., Ltd

**CAUTION**

Do not disassemble or use if expansion or deformation occurs
Do not cause a short circuit
Do not place at high temperature
Battery is prohibited to use after immersing

Remark:

“YYYY” means year for manufacture;

“MM” means month for manufacture;

“DD” means day for manufacture.



Test item particulars..... :	
Classification of installation and use.....:	To be defined in final product
Supply Connection.....:	DC connector
Recommend charging method declared by the manufacturer.....:	Charging the battery with 200mA constant current and 4.2V constant voltage until the current reduces to 10mA at ambient 20°C±5°C
Discharge current (0,2 It A).....:	200mA
Specified final voltage..... :	2.75V
Upper limit charging voltage per cell.....:	4.2V
Maximum charging current.....:	1000mA
Charging temperature upper limit.....:	45°C
Charging temperature lower limit.....:	10°C
Polymer cell electrolyte type.....:	☐ gel ☐ solid ☒ 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.....:	2026-01-07
Date (s) of performance of tests.....:	2026-01-07 to 2026-01-22
General remarks:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(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 ☐ comma / ☒ point is used as the decimal separator.	
Name and address of factory (ies)..... :	Same as applicant

**General product information and other remarks:**

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

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

Model	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Final Voltage
102050 (Battery)	1000mAh	3.7V	200mA	200mA	1000mA	1000mA	4.2V	2.75V

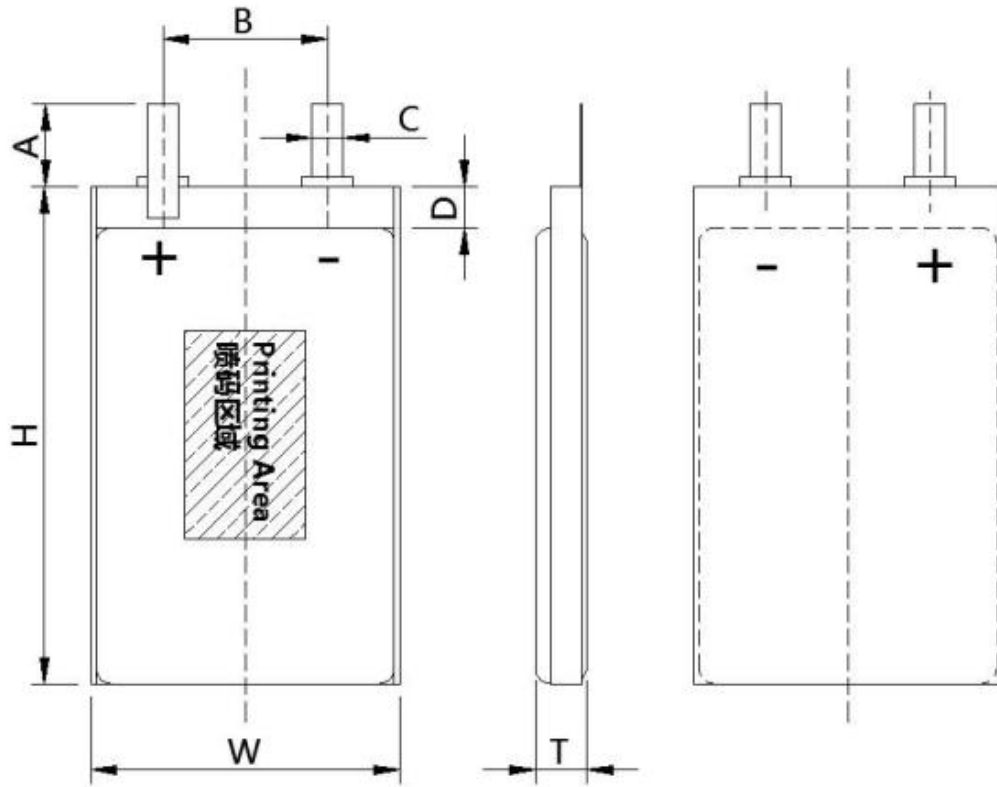
The main features of the cell in the battery are shown as below (clause 7.1.1):

Model	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Recomm end Charge Voltage	End of Discharge Voltage
102050 (Cell)	1000mAh	3.7V	200mA	200mA	1000mA	1000mA	4.2V	2.75V

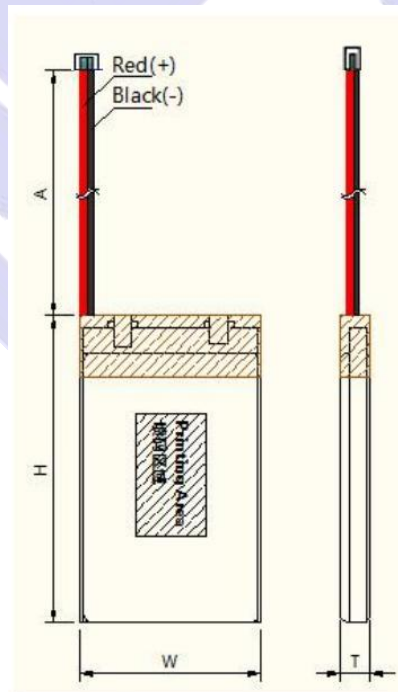
The main features of the cell in the battery are shown as below (clause 7.1.2):

Model	Upper limit charge voltage	Taper-off current	Lower charge temperature	Upper charge temperature
102050 (Cell)	4.2V	50mA	10°C	45°C

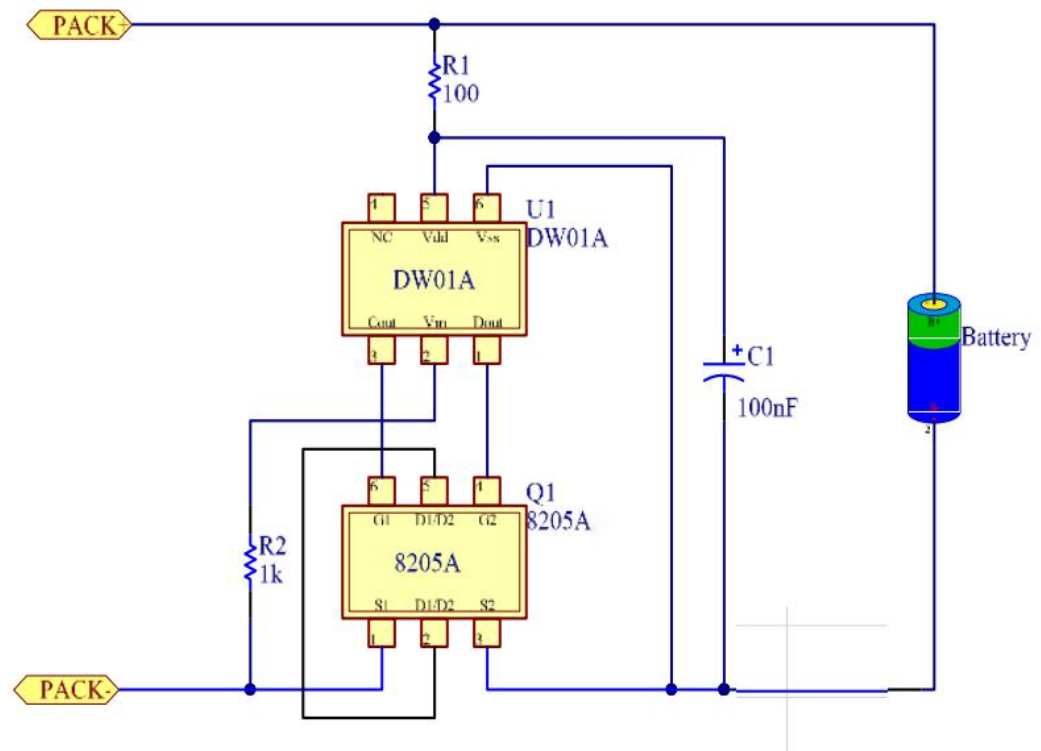
Construction:



T: Max 10.0mm, W: Max 20.0mm, H: Max 50.0mm
Cell



T: Max 10.0mm, W: Max 20.0mm, H: Max 52.0mm
Battery

**Circuit diagram:**



IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
4	PARAMETER MEASUREMENT TOLERANCES		P
	Parameter measurement tolerances		P
5	GENERAL SAFETY CONSIDERATIONS		P
5.1	General		P
	Cells and batteries so designed and constructed that they are safe under conditions of both intended use and reasonably foreseeable misuse		P
5.2	Insulation and wiring		P
	The insulation resistance between the positive terminal and externally exposed metal surfaces of the battery (excluding electrical contact surfaces) is not less than 5 MΩ	No metal case exists.	N/A
	Insulation resistance (MΩ)..... :		—
	Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements		P
	Orientation of wiring maintains adequate clearance and creep age distances between conductors		P
	Mechanical integrity of internal connections accommodates reasonably foreseeable misuse		P
5.3	Venting		P
	Battery cases and cells incorporate a pressure relief mechanism or are constructed so that they relieve excessive internal pressure at a value and rate that will preclude rupture, explosion and self-ignition	Venting mechanism exists on the narrow side of the cell.	P
	Encapsulation used to support cells within an outer casing does not cause the battery to overheat during normal operation nor inhibit pressure relief		N/A
5.4	Temperature, voltage and current management		P
	Batteries are designed such that abnormal temperature rise conditions are prevented	Overcharge, over discharge, over current and short-circuit proof circuit used in this battery. See tests of clause 7.	P
	Batteries are designed to be within temperature, voltage and current limits specified by the cell manufacturer	See above.	P
	Batteries are provided with specifications and charging instructions for equipment manufacturers so that specified chargers are designed to maintain charging within the temperature, voltage and current limits specified	The charging limits specified in the manufacturer's specification.	P
5.5	Terminal contacts		P
	The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current	DC connector complied with the requirement.	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-circuit		P
5.6	Assembly of cells into batteries		P
5.6.1	General		P
	Each battery have an independent control and protection for current, voltage, temperature and any other parameter required for safety and to maintain the cells within their operating region	1S1P	P
	This protection may be provided external to the battery such as within the charger or the end devices		N/A
	If protection is external to the battery, the manufacturer of the battery provide this safety relevant information to the external device manufacturer for implementation		N/A
	If there is more than one battery housed in a single battery case, each battery have protective circuitry that can maintain the cells within their operating regions		N/A
	Manufacturers of cells specify current, voltage and temperature limits so that the battery manufacturer/designer may ensure proper design and assembly	Current, Voltage and temperature limits specified by cell manufacturer	P
	Batteries that are designed for the selective discharge of a portion of their series connected cells incorporate circuitry to prevent operation of cells outside the limits specified by the cell manufacturer		N/A
	Protective circuit components added as appropriate and consideration given to the end-device application		P
	The manufacturer of the battery provide a safety analysis of the battery safety circuitry with a test report including a fault analysis of the protection circuit under both charging and discharging conditions confirming the compliance.	Safety analysis report provided by manufacturer	P
5.6.2	Design recommendation		P
	For the battery consisting of a single cell or a single cellblock, it is recommended that the charging voltage of the cell does not exceed the upper limit of the charging voltage specified in Table 2	Max. charging voltage of each cell: 4.2V, not exceed 4.2V specified in Clause 7.1.2, Table 2.	P
	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



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 charging is stopped when the upper limit of the charging voltage is exceeded for any one of the single cells or single cellblocks by measuring the voltage of every single cell or the single cellblocks		N/A
	For batteries consisting of series-connected cells or cell blocks, nominal charge voltage not be counted as an overcharge protection		N/A
	For batteries consisting of series-connected cells or cell blocks, cells have closely matched capacities, be of the same design, be of the same chemistry and be from the same manufacturer		N/A
	It is recommended that the cells and cell blocks not discharged beyond the cell manufacturer's specified final voltage	Final voltage of each cell: 2.75V, not exceed the final voltage specified by the cell manufacturer.	P
	For batteries consisting of series-connected cells or cell blocks, cell balancing circuitry incorporated into the battery management system		N/A
5.6.3	Mechanical protection for cells and components of batteries		P
	Mechanical protection for cells, cell connections and control circuits within the battery provided to prevent damage as a result of intended use and reasonably foreseeable misuse	Mechanical protection for cell connections and control circuits provided.	P
	The mechanical protection can be provided by the battery case or it can be provided by the end product enclosure for those batteries intended for building into an end product	Build-in batteries, mechanical protection for cells should be provided by end product.	N/A
	The battery case and compartments housing cells designed to accommodate cell dimensional tolerances during charging and discharging as recommended by the cell manufacturer	To be evaluated in final system	N/A
	For batteries intended for building into a portable end product, testing with the battery installed within the end product considered when conducting mechanical tests		N/A
5.7	Quality plan		P
	The manufacturer prepares and implements a quality plan that defines procedures for the inspection of materials, components, cells and batteries and which covers the whole process of producing each type of cell or battery	Complied. Quality plan provided.	P
5.8	Battery safety components		N/A
	According annex F	See TABLE: Critical components information	N/A
6	TYPE TEST AND SAMPLE SIZE		P



IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	Tests are made with the number of cells or batteries specified in Table 1 using cells or batteries that are not more than six months old		P
	Coin cells with resistance $\leq 3 \Omega$ (measured according annex D) are tested according table 1	Not coin cells	N/A
	Unless otherwise specified, tests are carried out in an ambient temperature of $20^\circ\text{C} \pm 5^\circ\text{C}$		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		P
	When conducting the short-circuit test, consideration given to the simulation of any single fault condition that is likely to occur in the protecting circuit that would affect the short-circuit test	See clause 7.3.2	P
7	SPECIFIC REQUIREMENTS AND TESTS		P
7.1	Charging procedure for test purposes		P
7.1.1	First procedure		P
	This charging procedure applies to sub clauses 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 $20^\circ\text{C} \pm 5^\circ\text{C}$, using the method declared by the manufacturer	See page 4	P
	Prior to charging, the battery have been discharged at $20^\circ\text{C} \pm 5^\circ\text{C}$ at a constant current of 0,2 It A down to a specified final voltage	See page 4	P
7.1.2	Second procedure		P
	This charging procedure applies only to 7.3.1, 7.3.4, 7.3.5, and 7.3.9		P
	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 $10-45^\circ\text{C}$ declared.	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 200mA.	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)	Tested as client requested.	P
	Oven temperature ($^\circ\text{C}$)..... :	70°C	—



IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	Results: No physical distortion of the battery case resulting in exposure of internal protective components and cells	No physical distortion of the battery case.	P
7.3	Reasonably foreseeable misuse		P
7.3.1	External short-circuit (cell)	Tested complied.	P
	The cells were tested until one of the following occurred:		P
	- 24 hours elapsed; or		N/A
	- The case temperature declined by 20% of the maximum temperature rise		P
	Results: No fire. No explosion..... :	(See appended table 7.3.1)	P
7.3.2	External short-circuit (battery)	Tested complied.	P
	The batteries were tested until one of the following occurred:		P
	- 24 hours elapsed; or		N/A
	- The case temperature declined by 20 % of the maximum temperature rise		P
	In case of rapid decline in short circuit current, the battery pack remained on test for an additional one hour after the current reached a low end steady state condition		P
	A single fault in the discharge protection circuit conducted on one to four (depending upon the protection circuit) of the five samples before conducting the short-circuit test	Single fault conducted on four samples.	P
	A single fault applies to protective component parts such as MOSFET, fuse, thermostat or positive temperature coefficient (PTC) thermistor	Single fault applies on MOSFET (Q1).	P
	Results: No fire. No explosion..... :	(See appended table 7.3.2)	P
7.3.3	Free fall	Tested complied.	P
	Results: No fire. No explosion	No fire. No explosion.	P
7.3.4	Thermal abuse (cells)	Tested complied.	P
	Oven temperature (°C)..... :	130°C	—
	Results: No fire. No explosion	No fire. No explosion	P
7.3.5	Crush (cells)	Tested complied.	P
	The crushing force was released upon:		P
	- The maximum force of 13 kN±0,78kN has been applied; or		P
	- An abrupt voltage drop of one-third of the original voltage has been obtained		N/A
	Results: No fire. No explosion:	(See appended table 7.3.5)	P
7.3.6	Over-charging of battery	Tested complied.	P
	The supply voltage which is:		P



IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	- 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.	P
	- 1,2 times the upper limit charging voltage resented in Table A.1 per cell for series connected multi-cell batteries, and		N/A
	- Sufficient to maintain a current of 2,0 It A throughout the duration of the test or until the supply voltage is reached		P
	Test was continued until the temperature of the outer casing:		P
	- Reached steady state conditions (less than 10°C change in 30-minute period); or		N/A
	- Returned to ambient		P
	Results: No fire. No explosion:	(See appended table 7.3.6)	P
7.3.7	Forced discharge (cells)	Tested complied.	P
	Discharge a single cell to the lower limit discharge voltage specified by the cell manufacturer	Lower limit discharge voltage 2.75V.	P
	The discharged cell is then subjected to a forced discharge at 1 It A to the negative value of the upper limit charging voltage		P
	- The discharge voltage reaches the negative value of upper limit charging voltage within the testing duration. The voltage is maintained at the negative value of the upper limit charging voltage by reducing the current for the remainder of the testing duration		N/A
	- 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)		P
7.3.8.1	Vibration	Tested complied.	P
	Results: No fire, no explosion, no rupture, no leakage or venting.....:	(See appended table 7.3.8.1)	P
7.3.8.2	Mechanical shock	Tested complied.	P
	Results: No leakage, no venting, no rupture, no explosion and no fire.....:	(See appended table 7.3.8.2)	P
7.3.9	Design evaluation – Forced internal short-circuit (cells)	Tested complied.	P
	The cells complied with national requirement for.....:	France, Japan, Republic of 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	400N for prismatic cells.	P



IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	Results: No fire..... :	(See appended table 7.3.9)	P
8	INFORMATION FOR SAFETY		P
8.1	General		P
	Manufacturers of secondary cells ensure that information is provided about current, voltage and temperature limits of their products	Information for safety mentioned in manufacturer's specifications.	P
	Manufacturers of batteries ensure that equipment manufacturers and, in the case of direct sales, end-users are provided with information to minimize and mitigate hazards	Information for safety mentioned in manufacturer's specifications.	P
	Systems analyses 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 provided to the end user		N/A
	Do not allow children to replace batteries without adult supervision		N/A
8.2	Small cell and battery safety information	Not small cell and battery.	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 swallow able 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	The final product is battery.	N/A
	Cells 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		P
	Batteries marked as specified in IEC 61960, except for coin batteries	The battery is marked in accordance with IEC 61960, see page 3.	P



IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	Coin batteries whose external surface area is too small to accommodate the markings on the batteries show the designation and polarity.		N/A
	Batteries also marked with an appropriate caution statement		P
	Terminals have clear polarity marking on the external surface of the battery		N/A
	Batteries with keyed external connectors designed for connection to specific end products need not be marked with polarity markings if the design of the external connector prevents reverse polarity connections		P
9.3	Caution for ingestion of small cells and batteries	Not small cells and batteries.	N/A
	Coin cells and batteries identified as small batteries according to 8.2 include a caution statement regarding the hazards of ingestion in accordance with 8.2	Not coin cells and batteries	N/A
	When small cells and batteries are intended for direct sale in consumer-replaceable applications, caution for ingestion given on the immediate package		N/A
9.4	Other information		P
	Storage and disposal instructions	Information for safety mentioned in manufacturer's specifications.	P
	Recommended charging instructions	Information for safety mentioned in manufacturer's specifications.	P
10	PACKAGING AND TRANSPORT		N/A
	Packaging for coin cells not 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	P
A.3.2.1	General		P
A.3.2.2	Explanation of safety viewpoint		N/A
A.3.2.3	Safety requirements, when different upper limit charging voltage is applied	4.2V applied.	N/A
A.4	Consideration of temperature and charging current		P
A.4.1	General		P



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Clause	Requirement + Test	Result - Remark	Verdict
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: 10~45°C.	N/A
A.4.3	High temperature range	Not higher than the temperature range 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		N/A
A.4.4	Low temperature range	Not lower than the temperature range specific in this standard.	N/A
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		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		N/A
A.5.5.1	Insertion of nickel particle in winding core		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		P
A.6	Experimental procedure of the forced internal short-circuit test		P



IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
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
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	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		N/A



7.2.1	TABLE: Continuous charging at constant voltage (cells)				P
Sample no.	Recommended charging voltage Vc (Vdc)	Recommended charging current I _{rec} (mA)	OCV before test (Vdc)	Results	
Cell #1	4.20	200	4.18	P	
Cell #2	4.20	200	4.18	P	
Cell #3	4.20	200	4.19	P	
Cell #4	4.20	200	4.18	P	
Cell #5	4.20	200	4.19	P	
Supplementary information: - No fire or explosion - No leakage					

7.3.1	TABLE: External short-circuit (cell)				P
Sample no.	Ambient T (°C)	OCV before test (Vdc)	Resistance of circuit (mΩ)	Maximum case temperature rise ΔT, (°C)	Results
Samples charged at charging temperature upper limit (45°C)					
Cell #6	56.0	4.18	81	102.4	P
Cell #7	56.0	4.17	87	105.3	P
Cell #8	56.0	4.17	82	101.7	P
Cell #9	56.0	4.18	84	106.4	P
Cell #10	56.0	4.18	86	103.5	P
Samples charged at charging temperature lower limit (10°C)					
Cell #11	56.2	4.13	82	105.1	P
Cell #12	56.2	4.12	86	104.2	P
Cell #13	56.2	4.12	84	103.6	P
Cell #14	56.2	4.13	89	107.4	P
Cell #15	56.2	4.13	83	101.5	P
Supplementary information: - No fire or explosion					



7.3.2	TABLE: External short-circuit (battery)					P
Sample no.	Ambient(°C)	OCV before test (Vdc)	Resistance of circuit (mΩ)	Maximum case temperature rise ΔT , (°C)	Component single fault condition	Results
Battery #4	21.7	4.18	86	103.3	MOSFET (Q1) Short circuit	P
Battery #5	21.7	4.17	81	102.4	MOSFET (Q1) Short circuit	P
Battery #6	21.7	4.17	87	105.1	MOSFET (Q1) Short circuit	P
Battery #7	21.7	4.18	83	106.2	MOSFET (Q1) Short circuit	P
Battery #8	21.7	4.17	85	22.3	--	P
Supplementary information: - No fire or explosion						

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)					
Cell #29	4.18	4.17	13	P	
Cell #30	4.18	4.18	13	P	
Cell #31	4.17	4.17	13	P	
Cell #32	4.17	4.16	13	P	
Cell #33	4.17	4.17	13	P	
Samples charged at charging temperature lower limit (10°C)					
Cell #34	4.13	4.13	13	P	
Cell #35	4.13	4.12	13	P	
Cell #36	4.12	4.12	13	P	
Cell #37	4.12	4.11	13	P	
Cell #38	4.13	4.13	13	P	
Supplementary information:					
- No fire or explosion					



7.3.6	TABLE: Over-charging of battery				P
Constant charging current (A).....:		2			—
Supply voltage (Vdc).....:		5.88			—
Sample no.	OCV before charging (Vdc)	Total charging time (minute)	Maximum outer case temperature (°C)	Results	
Battery #12	3.06	111	34.1	P	
Battery #13	3.09	111	36.2	P	
Battery #14	3.07	111	33.8	P	
Battery #15	3.11	111	31.5	P	
Battery #16	3.06	111	37.4	P	
Supplementary information:					
- No fire or explosion					

7.3.7	TABLE: Forced discharge (cells)				P
Sample no.	OCV before application of reverse charge (Vdc)	Measured reverse charge I _t (mA)	Lower limit discharge voltage (Vdc)	Results	
Cell #39	3.08	1000	2.75	P	
Cell #40	3.11	1000	2.75	P	
Cell #41	3.06	1000	2.75	P	
Cell #42	3.07	1000	2.75	P	
Cell #43	3.09	1000	2.75	P	
Supplementary information: - No fire or explosion					

7.3.8.1	TABLE: Vibration					P
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	19.190	19.189	P	
Battery #18	4.18	4.17	19.022	19.021	P	
Battery #19	4.17	4.16	18.975	18.975	P	
Supplementary information: - No fire or explosion - No rupture - No leakage - No venting						



7.3.8.2	TABLE: Mechanical shock					P
Sample no.	OCV before test (Vdc)	OCV after test (Vdc)	Mass before test (g)	Mass after test (g)	Results	
Battery #20	4.17	4.16	19.123	19.122	P	
Battery #21	4.18	4.17	18.986	18.985	P	
Battery #22	4.18	4.18	19.025	19.025	P	
Supplementary information: - No fire or explosion - No rupture - No leakage - No venting						

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)						
Cell #44	45	4.18	1	400	P	
Cell #45	45	4.17	1	400	P	
Cell #46	45	4.18	1	400	P	
Cell #47	45	4.18	1	400	P	
Cell #48	45	4.17	1	400	P	
Samples charged at charging temperature lower limit (10°C)						
Cell #49	10	4.13	1	400	P	
Cell #50	10	4.12	1	400	P	
Cell #51	10	4.13	1	400	P	
Cell #52	10	4.12	1	400	P	
Cell #53	10	4.13	1	400	P	
Supplementary information: ¹⁾ Identify one of the following: 1: Nickel particle inserted between positive and negative (active material) coated area. 2: Nickel particle inserted between positive aluminium foil and negative active material coated area. - No fire.						

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:					



TABLE: Critical components information					P
Object/part no.	Manufacturer/trademark	Type/model	Technical data	Standard	Mark(s) of conformity ¹⁾
Cell	Dongguan Yiyuanda Energy Technology Co., Ltd	102050	3.7V, 1000mAh	IEC 62133-2: 2017, IEC 62133-2: 2017/AMD 1: 2021	Tested with appliance
-Electrolyte	--	--	LiPF ₆ +DMC+EMC+EC	--	--
-Separator	--	--	PE, 0.014mm, Shutdown temperature: 135°C	--	--
-Negative Electrode	--	--	Graphite	--	--
-Positive Electrode	--	--	Li(Ni _{0.5} Co _{0.2} Mn _{0.3})O ₂	--	--
Protection IC (U1)	Shenzhen Cansheng Industrial Development Co., Ltd.	DW01A	Overcharge detection voltage: 4.30±0.05V, Overdischarge detection voltage: 2.4±0.10V	--	Tested with appliance
MOSFET (Q1)	Shenzhen Cansheng Industrial Development Co., Ltd.	8205A	VDS: 20V, VGS: ±12V, ID: 5A	--	Tested with appliance
PCB	Interchangeable	Interchangeable	V-0, 130°C	--	--
Wire	Interchangeable	Interchangeable	24AWG, 105°C, 30Vac	--	--
Connector	Interchangeable	Interchangeable	2Pin, V-0, 85°C	--	--
Supplementary information: ¹⁾ Provided evidence ensures the agreed level of compliance.					



Attachment 1

Photo Documentation

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Report No. ECTBF0A07C036

Product: Li-ion Battery

Type Designation: 102050

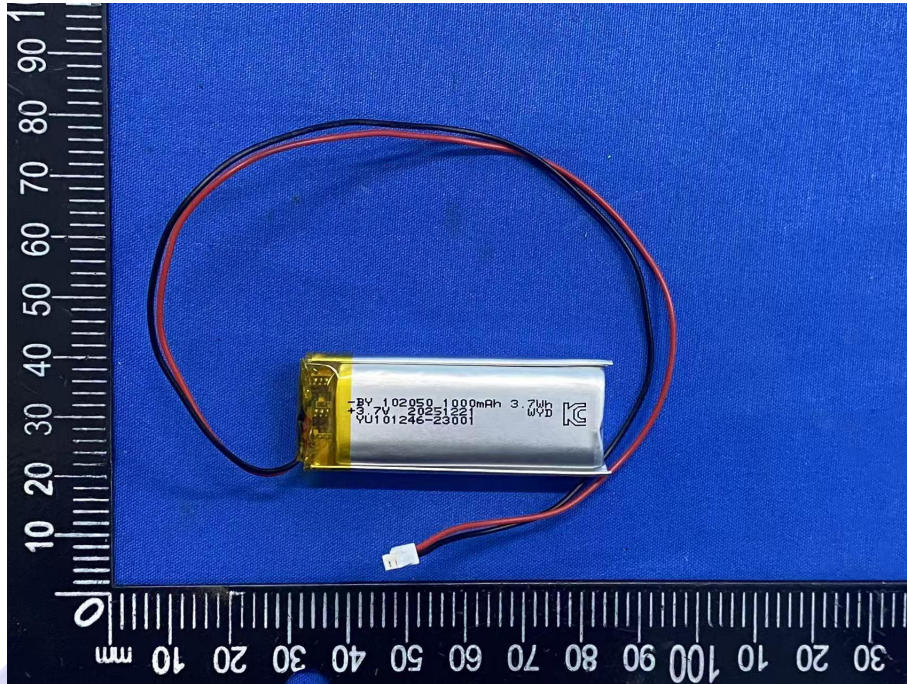


Figure 1 Front view of battery

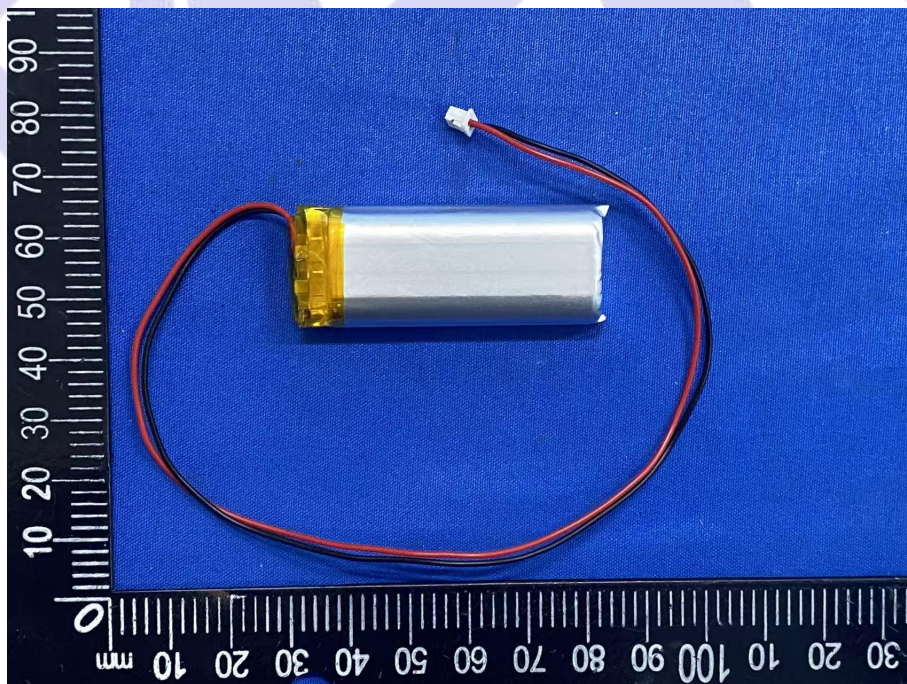


Figure 2 Back view of battery



Attachment 1

Photo Documentation

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Report No. ECTBF0A07C036

Product: Li-ion Battery

Type Designation: 102050

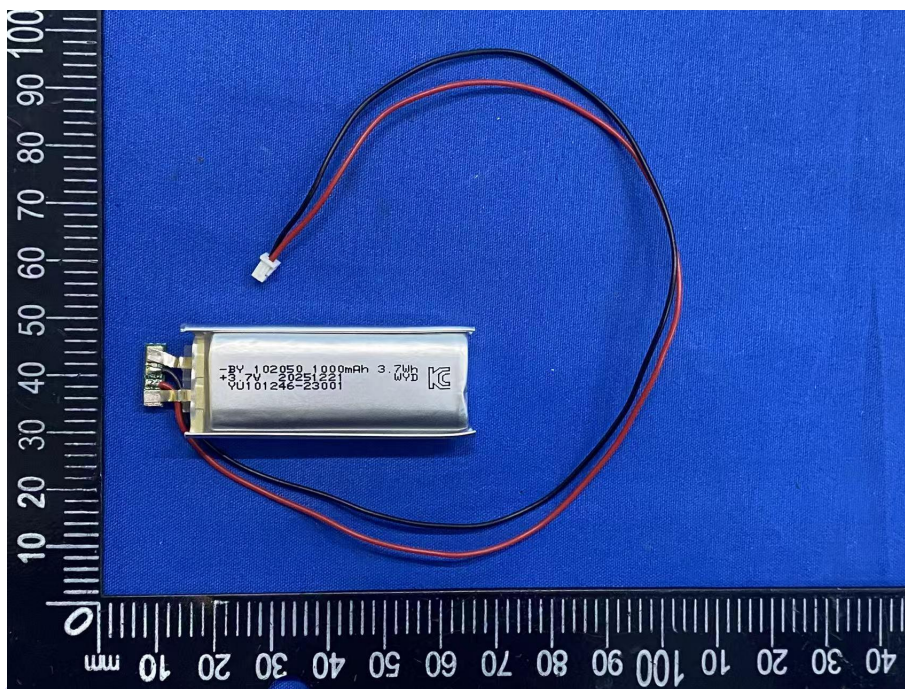


Figure 3 Interior view-1 of battery

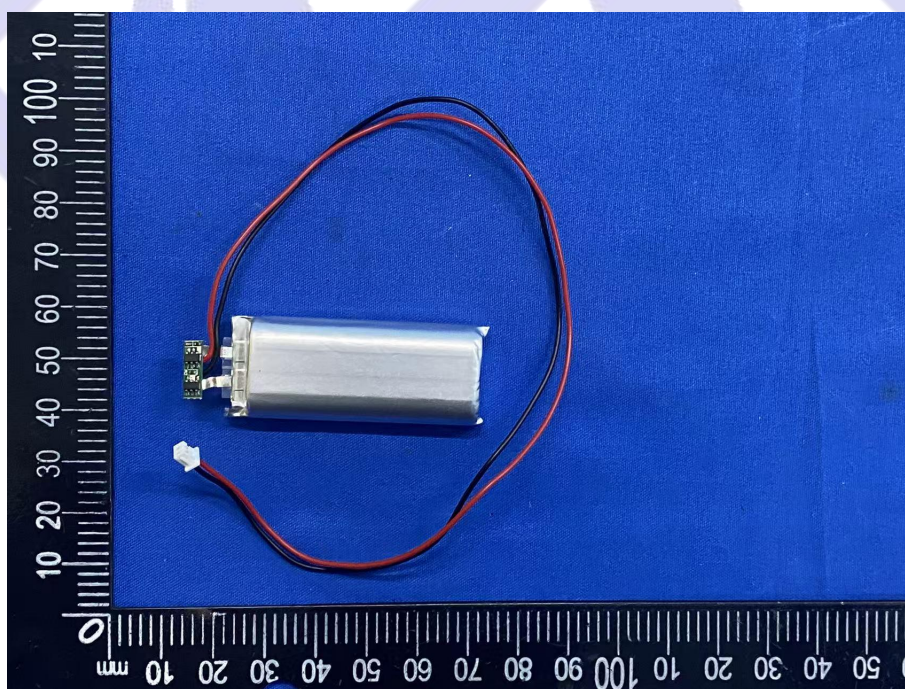


Figure 4 Interior view-2 of battery



Attachment 1

Photo Documentation

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Report No. ECTBF0A07C036

Product: Li-ion Battery

Type Designation: 102050

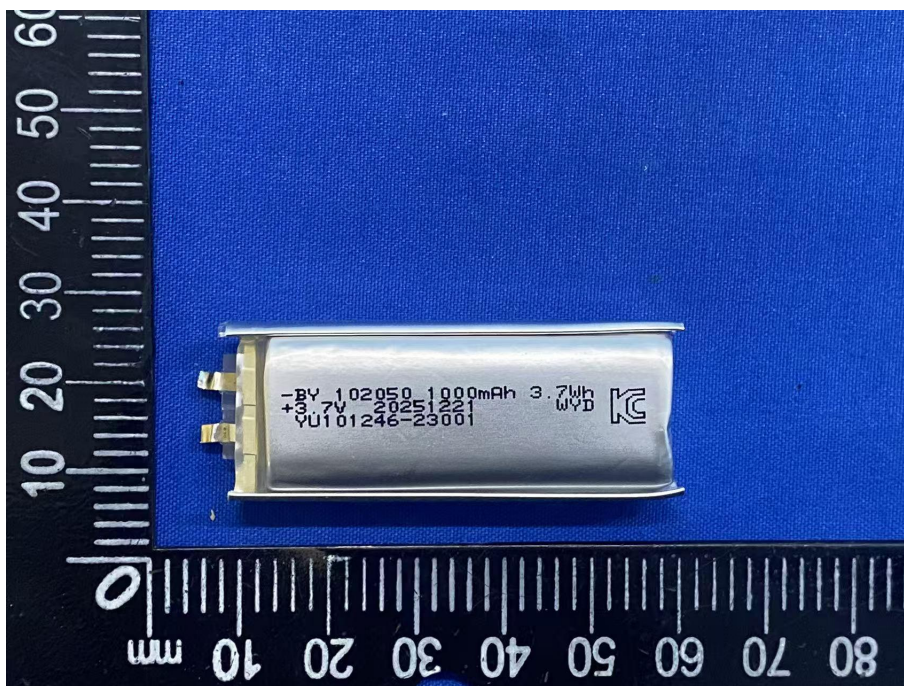


Figure 5 Front view of cell



Figure 6 Back view of cell



Attachment 1

Photo Documentation

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Report No. ECTBF0A07C036

Product: Li-ion Battery

Type Designation: 102050

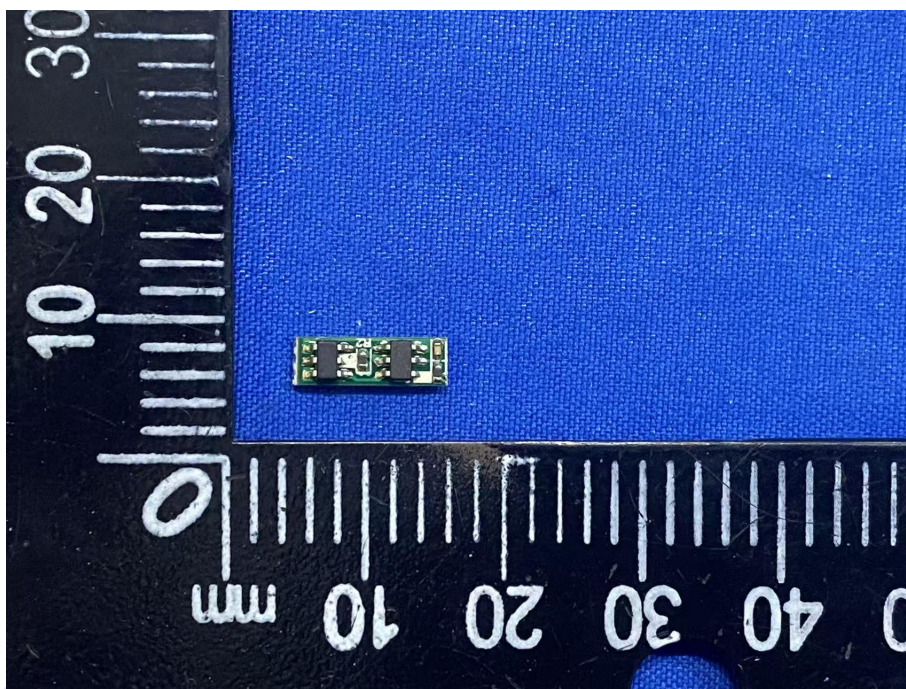


Figure 7 Front view of PCM

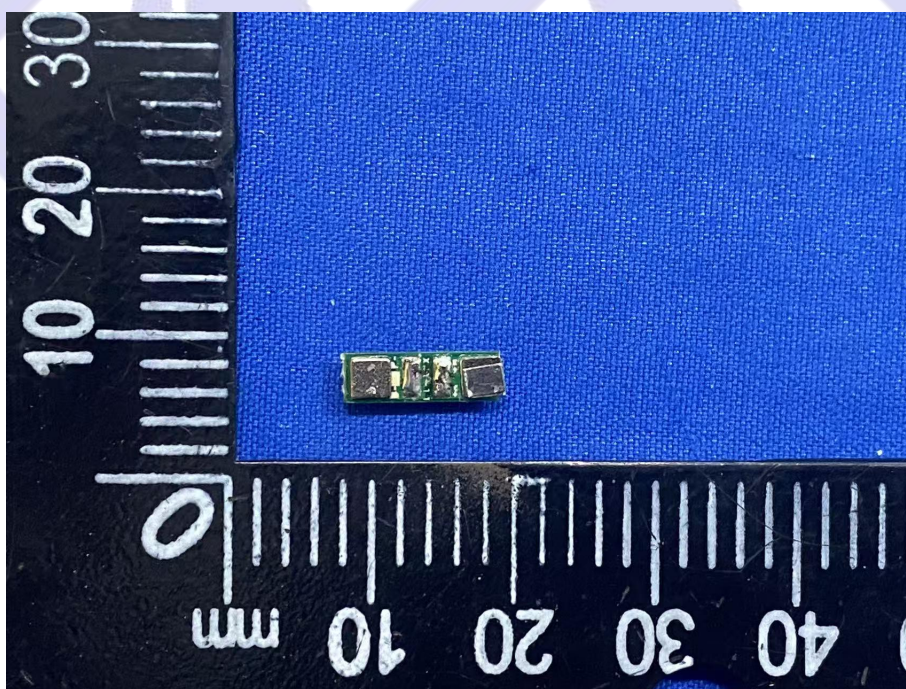


Figure 8 Back view of PCM

-- End of Report --