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# Test Report

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Report No.: AGC01085210401TA01

**PRODUCT DESIGNATION** : Li-Polymer Battery  
**BRAND NAME** : N/A  
**MODEL NAME** : CBT-W013  
**APPLICANT** : Shenzhen Huafurui Technology Co., Ltd.  
**DATE OF ISSUE** : 2021-04-22  
**STANDARD(S)** : IEC 62133-2:2017  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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**IEC 62133-2:2017**

**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 Reference No..... : AGC01085210401TA01

Tested by (+ signature)..... : Wenbing Ye

*Wenbing Ye*

Reviewed by (+ signature) ..... : Xue Jiajia

*Xuejiajia*

Approved by (+signature) ..... : Matte He

*Matte He*

Date of issue..... : 2021-04-22

Contents..... : Total 26 pages.

**Testing laboratory**

Name..... : Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address..... : 1, 2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing location..... : Same as above.

**Applicant**

Name..... : Shenzhen Huafurui Technology Co., Ltd.

Address..... : Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No.4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen,P.R. China

**Manufacturer**

Name..... : Shenzhen Mitacbattery Technology Co., Ltd

Address..... : Floor 5, Building 1, Workshop of Tianxin Residents Group, Shangwu Community, Shiyan Street, Baoan District, Shenzhen

**Test specification**

Standard..... : IEC 62133-2:2017

Test procedure ..... : Type test

Procedure deviation..... : N/A

Test result..... : Pass

**Test Report Form/blank test report**

Test Report Form No..... : AGC62133A

Test Report Form(s) Originator..... : AGC

Master TRF..... : Dated 2017-09

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TRF No. AGC62133A

<b>Test item</b>				
Product designation.....	Li-Polymer Battery			
Brand name.....	N/A			
Test model.....	CBT-W013			
Rating(s).....	3.7V, 230mAh, 0.851Wh			
<b>Test item particulars</b>				
Classification of installation and use.....	N/A			
Supply connection.....	DC Lead wire			
Recommend charging method declared by the manufacturer.....	46mA constant current charge to 4.2V, then constant voltage 4.2V charge till charged current declines to 2.3mA.			
Discharge current(0.2I <sub>t</sub> ).....	46mA			
Specified final voltage .....	3.0V			
Upper limit charging voltage per cell.....	4.2V			
Maximum charging current.....	115mA			
Charging temperature upper limit.....	55°C			
Charging temperature lower limit.....	0°C			
Polymer cell electrolyte type.....	<input type="checkbox"/> gel polymer <input type="checkbox"/> solid polymer <input checked="" type="checkbox"/> N/A			
<b>Test case verdicts</b>				
Test case does not apply to the test object.....	N (/A)			
Test item does meet the requirement.....	P (ass)			
Test item does not meet the requirement.....	F (ail)			
<b>Testing</b>				
Date of receipt of test item .....	2021-04-09			
Date(s) of performance of test.....	2021-04-12 - 2021-04-22			
<b>Attachment</b>				
Attachment A.....	Photos of product			
<b>General remarks</b>				
This report shall not be reproduced except in full without the written approval of the testing laboratory.				
The test results presented in this report relate only to the item tested.				
“(See remark #)” refers to a remark appended to the report.				
“(See appended table)” refers to a table appended to the report.				
Throughout this report a point is used as the decimal separator.				
The product fulfils the requirements of EN62133-2: 2017.				
Report Revise Record:				
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2021-04-22	Valid	Original report

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TRF No. AGC62133A

**General product information**

This battery is constructed with single lithium-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	Cut-off Voltage
CBT-W013	230mAh	3.7V	46mA	46mA	115mA	115mA	4.2V	3.0V

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
481829	230mAh	3.7V	46mA	46mA	115mA	115mA	4.2V	3.0V

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
481829	4.2V	11.5mA	0°C	55°C

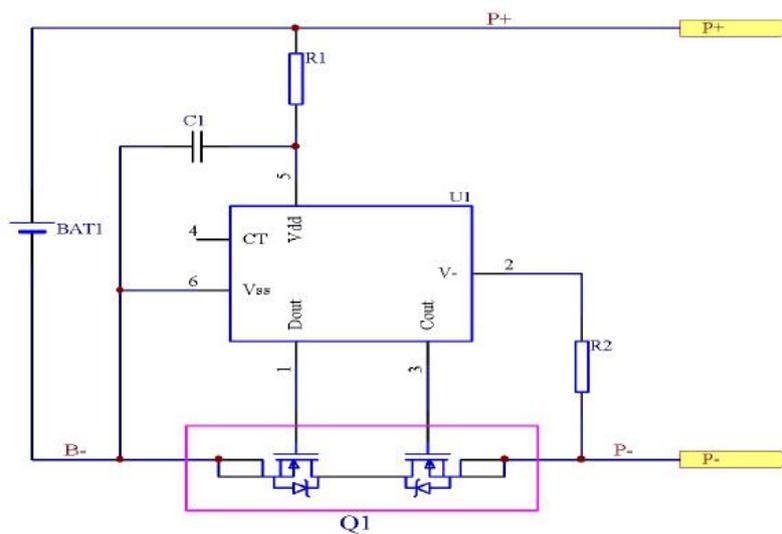
**Copy of marking plate**

This is reference label, final label should be including the content of it.

Red +      Black -  
Li-Polymer Battery  
CBT-W013  
3.7V, 230mAh, 0.851Wh  
IINP5/19/28 Date: YYYYMMDD  
Shenzhen Mitacbattery Technology Co., Ltd

Remark: YYYY means year, MM means month, DD means day.

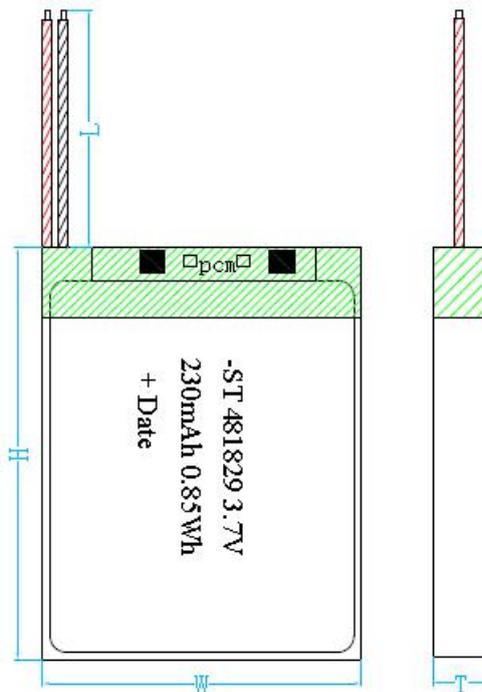
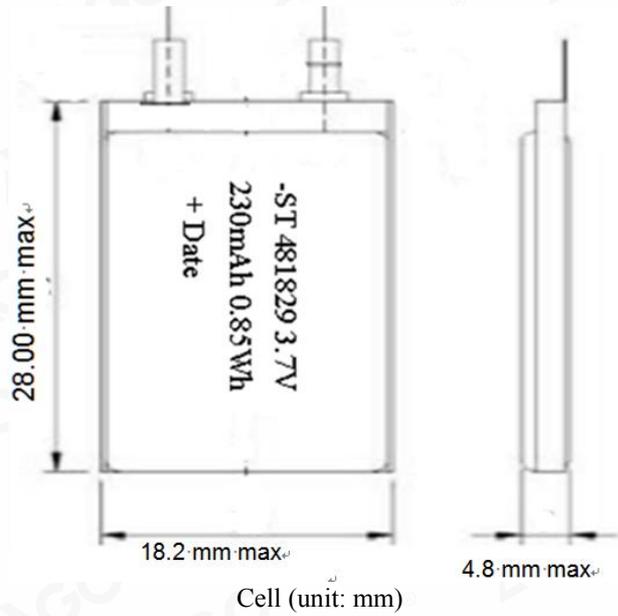
**Circuit diagram**



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**Construction**



T	≤4.8mm
W	≤18.2mm
H	≤29.0mm

Battery

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IEC 62133-2:2017			
Clause	Requirement – Test	Result – Remark	Verdict
<b>4</b>	<b>Parameter measurement tolerances</b>		<b>P</b>
	Parameter measurement tolerances	Comply with relevant requirements.	P
<b>5</b>	<b>General safety considerations</b>		<b>P</b>
<b>5.1</b>	<b>General</b>		<b>P</b>
	Cells and batteries so designed and constructed that they are safe under conditions of both intended use and reasonably foreseeable misuse		P
<b>5.2</b>	<b>Insulation and wiring</b>		<b>P</b>
	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	Not metal case exists.	N
	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 creepage distances between conductors		P
	Mechanical integrity of internal connections accommodates reasonably foreseeable misuse		P
<b>5.3</b>	<b>Venting</b>		<b>P</b>
	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 pouch 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
<b>5.4</b>	<b>Temperature, voltage and current management</b>		<b>P</b>
	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 8.	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
<b>5.5</b>	<b>Terminal contacts</b>		<b>P</b>
	The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current	DC Lead wire used.	P
	External terminal contact surfaces are formed from conductive materials with good mechanical strength and corrosion resistance		P

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TRF No. AGC62133A

IEC 62133-2:2017			
Clause	Requirement – Test	Result – Remark	Verdict
	Terminal contacts are arranged to minimize the risk of short-circuit		P
<b>5.6</b>	<b>Assembly of cells into batteries</b>		P
<b>5.6.1</b>	<b>General</b>		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	Protective circuit equipped on battery.	P
	This protection may be provided external to the battery such as within the charger or the end devices		N
	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
	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	Single cell battery	N
	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 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
	Protective circuit components added as appropriate and consideration given to the end-device application		N
	The manufacturer of the battery provide a safety analysis of the battery safety circuitry with a test report including a fault analysis of the protection circuit under both charging and discharging conditions confirming the compliance		N
<b>5.6.2</b>	<b>Design recommendation</b>		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	Charging voltage: 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
	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
	For batteries consisting of series-connected cells or cell blocks, nominal charge voltage not be counted as an		N

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IEC 62133-2:2017			
Clause	Requirement – Test	Result – Remark	Verdict
	overcharge protection		
	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
	It is recommended that the cells and cell blocks not discharged beyond the cell manufacturer's specified final voltage	Final voltage of battery: 3.0V, not exceed the final voltage specified by cell manufacturer.	P
	For batteries consisting of series-connected cells or cell blocks, cell balancing circuitry incorporated into the battery management system		P
<b>5.6.3</b>	<b>Mechanical protection for cells and components of batteries</b>		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 cells, 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		N
	The battery case and compartments housing cells designed to accommodate cell dimensional tolerances during charging and discharging as recommended by the cell manufacturer		N
	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
<b>5.7</b>	<b>Quality plan</b>		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
<b>5.8</b>	<b>Battery safety components</b>		N
	According annex F	See TABLE: Critical components information.	N
<b>6</b>	<b>Type test and sample size</b>		<b>P</b>
	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
	Unless otherwise specified, tests are carried out in an		P

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IEC 62133-2:2017			
Clause	Requirement – Test	Result – Remark	Verdict
	ambient temperature of 20 °C ± 5 °C		
	The safety analysis of 5.6.1 identify those components of the protection circuit that are critical for short-circuit, overcharge and overdischarge 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		P

<b>7</b>	<b>Specific requirements and tests</b>		<b>P</b>
<b>7.1</b>	<b>Charging procedure for test purposes</b>		P
<b>7.1.1</b>	<b>First procedure</b>		P
	This charging procedure applies to subclauses other than those specified in 7.1.2		P
	Unless otherwise stated in this document, the charging procedure for test purposes is carried out in an ambient temperature of 20 °C ± 5 °C, using the method declared by the manufacturer		P
	Prior to charging, the battery have been discharged at 20 °C ± 5 °C at a constant current of 0,2 It A down to a specified final voltage		P
<b>7.1.2</b>	<b>Second procedure</b>		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 and 4 h, respectively, at ambient temperature of highest test temperature and lowest test temperature, 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 voltage charging method	Charging temperature specified by client is: 0-55°C 60°C used for upper limit tests; -5°C used for lower limit tests.	P
<b>7.2</b>	<b>Intended use</b>		P
<b>7.2.1</b>	<b>Continuous charging at constant voltage (cells)</b>		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	Tested complied.	P
	Results: No fire. No explosion. No leakage..... :	(See appended table 7.2.1)	P
<b>7.2.2</b>	<b>Case stress at high ambient temperature (battery)</b>	Tested complied.	P
	Oven temperature (°C)..... :	70	—
	Results: No physical distortion of the battery case resulting in exposure of internal protective components and cells	No physical distortion of the battery casing resulting in exposure if internal components	P

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IEC 62133-2:2017			
Clause	Requirement – Test	Result – Remark	Verdict
<b>7.3</b>	<b>Reasonably foreseeable misuse</b>		P
<b>7.3.1</b>	<b>External short-circuit (cell)</b>	Tested complied.	P
	The cells were tested until one of the following occurred:		P
	- 24 hours elapsed; or		N
	- The case temperature declined by 20 % of the maximum temperature rise		P
	Results: No fire. No explosion..... :	(See appended table 7.3.1)	P
<b>7.3.2</b>	<b>External short-circuit (battery)</b>	Tested complied.	P
	The batteries were tested until one of the following occurred:		P
	- 24 hours elapsed; or		P
	- 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		N
	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 four samples.	P
	Results: No fire. No explosion..... :	(See appended table 7.3.2)	P
<b>7.3.3</b>	<b>Free fall</b>		P
	Results: No fire. No explosion	No fire. No explosion	P
<b>7.3.4</b>	<b>Thermal abuse (cells)</b>		P
	Oven temperature (°C)..... :	130°C ±2°C	—
	Results: No fire. No explosion	No fire. No explosion	P
<b>7.3.5</b>	<b>Crush (cells)</b>		P
	The crushing force was released upon:		P
	- The maximum force of 13 kN ± 0,78 kN has been applied; or		P
	- An abrupt voltage drop of one-third of the original voltage has been obtained		N
	Results: No fire. No explosion..... :	(See appended table 7.3.5)	P
<b>7.3.6</b>	<b>Over-charging of battery</b>	Tested complied.	P
	The supply voltage which is:		P

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IEC 62133-2:2017			
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
	- 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
	- Returned to ambient		P
	Results: No fire. No explosion..... :	(See appended table 7.3.6)	P
<b>7.3.7</b>	<b>Forced discharge (cells)</b>		P
	If 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
	If 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
<b>7.3.8</b>	<b>Mechanical tests (batteries)</b>		P
<b>7.3.8.1</b>	<b>Vibration</b>		P
	Results: No fire, no explosion, no rupture, no leakage or venting..... :	(See appended table 7.3.8.1)	P
<b>7.3.8.2</b>	<b>Mechanical shock</b>		P
	Results: No leakage, no venting, no rupture, no explosion and no fire..... :	(See appended table 7.3.8.2)	P
<b>7.3.9</b>	<b>Design evaluation – Forced internal short-circuit (cells)</b>		P
	The cells complied with national requirement for..... :	France, Japan, Korea, Switzerland	P
	The pressing was stopped upon:		P
	- A voltage drop of 50 mV has been detected; or		N
	- The pressing force of 800 N (cylindrical cells) or 400 N (prismatic cells) has been reached	400N	P
	Results: No fire..... :	(See appended table 7.3.9)	P

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IEC 62133-2:2017			
Clause	Requirement – Test	Result – Remark	Verdict
<b>8</b>	<b>Information for safety</b>		P
<b>8.1</b>	<b>General</b>		P
	Manufacturers of secondary cells ensure that information is provided about current, voltage and temperature limits of their products	Information of safety mentioned in manufacturer's specification.	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 of safety mentioned in manufacturer's specification.	P
	Systems analyses performed by device manufacturers to ensure that a particular battery design prevents hazards from occurring during use of a product		N
	As appropriate, any information relating to hazard avoidance resulting from a system analysis provided to the end user		P
	Do not allow children to replace batteries without adult supervision		P
<b>8.2</b>	<b>Small cell and battery safety information</b>	Small batteries.	P
	The following warning language is to be provided with the information packaged with the small cells and batteries or equipment using them:	Information of safety mentioned in manufacturer's specifications and on equipment's package.	P
	- Keep small cells and batteries which are considered swallowable out of the reach of children		P
	- Swallowing may lead to burns, perforation of soft tissue, and death. Severe burns can occur within 2 h of ingestion		P
	- In case of ingestion of a cell or battery, seek medical assistance promptly		P

<b>9</b>	<b>Marking</b>		P
<b>9.1</b>	<b>Cell marking</b>		N
	Cells marked as specified in IEC 61960, except coin cells	The final product is battery.	N
	Coin cells whose external surface area is too small to accommodate the markings on the cells show the designation and polarity		N
	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
<b>9.2</b>	<b>Battery marking</b>		P
	Batteries marked as specified in IEC 61960, except for coin batteries	The battery is marked in accordance with IEC 61960, also see page 4.	P

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TRF No. AGC62133A

## IEC 62133-2:2017

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. Batteries also marked with an appropriate caution statement	Not coin batteries.	N
	Terminals have clear polarity marking on the external surface of the battery	“+”, ”-”	P
	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		N
<b>9.3</b>	<b>Caution for ingestion of small cells and batteries</b>	Small batteries.	P
	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		P
	When small cells and batteries are intended for direct sale in consumer-replaceable applications, caution for ingestion given on the immediate package	Not intended for direct sale.	N
<b>9.4</b>	<b>Other information</b>		P
	Storage and disposal instructions	Information for storage and disposal instructions mentioned in manufacturer’s specifications.	P
	Recommended charging instructions	Information for recommended charging instructions mentioned in manufacturer’s specifications.	P

<b>10</b>	<b>Packaging and transport</b>		P
	Packaging for coin cells not small enough to fit within the limits of the ingestion gauge of Figure 3	Not coin cell	N
	The materials and packaging design are chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of environmental contaminants		P

<b>Annex A</b>	<b>Charging and discharging range of secondary lithium ion cells for safe use</b>		P
<b>A.1</b>	<b>General</b>		P
<b>A.2</b>	<b>Safety of lithium ion secondary battery</b>	Complied.	P
<b>A.3</b>	<b>Consideration on charging voltage</b>	Complied.	P
A.3.1	General		P
A.3.2	Upper limit charging voltage	4.2V	P
A.3.2.1	General		P

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TRF No. AGC62133A

IEC 62133-2:2017			
Clause	Requirement – Test	Result – Remark	Verdict
A.3.2.2	Explanation of safety viewpoint	4.2V applied.	N
A.3.2.3	Safety requirements, when different upper limit charging voltage is applied		N
<b>A.4</b>	<b>Consideration of temperature and charging current</b>		<b>P</b>
A.4.1	General		P
A.4.2	Recommended temperature range	Charging temperature declared by client is: 0-55°C.	P
A.4.2.1	General		P
A.4.2.2	Safety consideration when a different recommended temperature range is applied		P
A.4.3	High temperature range	Charging high temperature declared by client is:55°C.	P
A.4.3.1	General		P
A.4.3.2	Explanation of safety viewpoint		P
A.4.3.3	Safety considerations when specifying charging conditions in the high temperature range		P
A.4.3.4	Safety considerations when specifying a new upper limit in the high temperature range	No documents provided by manufacturer explaining the upper limit exceed 45°C, 60°C applied for testing in this report for safety considerations.	P
A.4.4	Low temperature range	Charging low temperature declared by client is: 0°C.	P
A.4.4.1	General		P
A.4.4.2	Explanation of safety viewpoint		P
A.4.4.3	Safety considerations, when specifying charging conditions in the low temperature range		P
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, -5°C applied for testing in this report for safety considerations.	P
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
<b>A.5</b>	<b>Sample preparation</b>		<b>P</b>
A.5.1	General		P

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IEC 62133-2:2017			
Clause	Requirement – Test	Result – Remark	Verdict
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.5.5.1	Insertion of nickel particle in winding core		N
A.5.5.2	Marking the position of the nickel particle on both ends of the winding core of the separator		N
A.5.6	Insertion of nickel particle in prismatic cell		P
<b>A.6</b>	<b>Experimental procedure of the forced internal short-circuit test</b>		P
A.6.1	Material and tools for preparation of nickel particle		P
A.6.2	Example of a nickel particle preparation procedure		P
A.6.3	Positioning (or placement) of a nickel particle		P
A.6.4	Damaged separator precaution		P
A.6.5	Caution for rewinding separator and electrode		P
A.6.6	Insulation film for preventing short-circuit		P
A.6.7	Caution when disassembling a cell		P
A.6.8	Protective equipment for safety		P
A.6.9	Caution in the case of fire during disassembling		P
A.6.10	Caution for the disassembling process and pressing the electrode core		P
A.6.11	Recommended specifications for the pressing device		P

<b>Annex B</b>	<b>Recommendations to equipment manufacturers and battery assemblers</b>	N
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<b>Annex C</b>	<b>Recommendations to the end-users</b>	N
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<b>Annex D</b>	<b>Measurement of the internal ac resistance for coin cells</b>	N
<b>D.1</b>	<b>General</b>	N
<b>D.2</b>	<b>Method</b>	N
	A sample size of three coin cells is required for this measurement.....:	(See appended table D.2) N
	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

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TRF No. AGC62133A

IEC 62133-2:2017			
Clause	Requirement – Test	Result – Remark	Verdict
	Coin cells with an internal resistance greater than 3 Ω require no further testing		N
<b>Annex E</b>	<b>Packaging and transport</b>		N
<b>Annex F</b>	<b>Component standards references</b>		N

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Table: Critical components information

P

Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
PCB	Shenzhen Lutongda Technology Co Ltd	ST-1435	12*3.5*0.4mm FR4, 130 °C	--	--
IC	Shenzhen Developer Microelectronics Co., Ltd.	DAA	Over charge detection voltage:4.28±0.05V, Over discharge detection voltage:2.4±0.10V, Over current detection voltage 0.150±0.05V, Topr:-40~85°C	--	--
MOSFET	Shenzhen Developer Microelectronics Co., Ltd.	8205	VDSS 20V, VGSS:12V ID:5A, Tstg:-55-150°C	--	--
Wire	Shenzhen Jinfengsheng Electronics Co., Ltd.	3302	Red 27mm, Black 30mm, 32 AWG, 80°C, 30V	--	--
Cell	Shenzhen Mitacbattery Technology Co., Ltd.	481829	3.7V, 230mAh	--	--
Electrolyte	JIANGXI YOU LI NEW MATERIALS CO., LTD	19086	Composition: EC+EMC, Conductivity:1.25 mS/cm	--	--
Separator	SUZHOU GREEN POWER NEW ENERGY MATERIALSCO., LTD.	PE	PE, Shut down temperature: 130°C	--	--
Positive electrode	Hunan JinFuli Energy Technology Co., Ltd.	LCO-4	Li(Ni0.5Co0.2Mn0.3)O <sub>2</sub>	--	--
Negative electrode	Jiangxi Zichen Technology CO., LTD	AGF-1	Graphite	--	--

## Supplementary information:

1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.

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7.2.1 Table: Continuous charging at constant voltage (cells)				P
Sample no.	Recommended charging voltage V <sub>c</sub> (Vdc)	Recommended charging current I <sub>rec</sub> (A)	OCV before test (Vdc)	Results
C01	4.2	0.046	4.18	P
C02	4.2	0.046	4.18	P
C03	4.2	0.046	4.18	P
C04	4.2	0.046	4.18	P
C05	4.2	0.046	4.18	P

**Supplementary information:**

- No fire or explosion
- No leakage
- Others (please explain)

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
<b>Samples charged at charging temperature upper limit (60°C)</b>					
C06	55.3	4.16	82	101.4	P
C07	55.3	4.16	86	105.6	P
C08	55.3	4.16	82	102.9	P
C09	55.3	4.17	87	107.3	P
C10	55.3	4.16	84	102.4	P
<b>Samples charged at charging temperature lower limit (-5°C)</b>					
C11	55.1	4.12	83	102.5	P
C12	55.1	4.13	83	101.7	P
C13	55.1	4.13	85	105.4	P
C14	55.1	4.13	82	108.3	P
C15	55.1	4.13	87	105.6	P

**Supplementary information:**

- No fire or explosion
- Others (please explain)

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7.3.2 Table: External short-circuit (battery)						P
Sample no.	Ambient T (°C)	OCV before test (Vdc)	Resistance of circuit (mΩ)	Maximum case temperature rise $\Delta T$ (°C)	Component single fault condition	Results
B01	22.4	4.17	82	98.4	MOSFET Q1 SC	P
B02	22.4	4.17	86	103.6	MOSFET Q1 SC	P
B03	22.4	4.17	84	101.2	MOSFET Q1 SC	P
B04	22.4	4.18	81	105.8	MOSFET Q1 SC	P
B05	22.4	4.17	82	24.6	--	P

**Supplementary information:**

- No fire or explosion
- Others (please explain)

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	
<b>Samples charged at charging temperature upper limit (60°C)</b>					
C16	4.16	4.16	13.09	P	
C17	4.16	4.16	13.14	P	
C18	4.16	4.16	13.11	P	
C19	4.17	4.17	13.04	P	
C20	4.16	4.16	13.08	P	
<b>Samples charged at charging temperature lower limit (-5°C)</b>					
C21	4.13	4.13	13.16	P	
C22	4.13	4.13	13.12	P	
C23	4.13	4.13	13.17	P	
C24	4.13	4.13	13.15	P	
C25	4.12	4.12	13.08	P	

**Supplementary information:**

- No fire or explosion
- Others (please explain)

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7.3.6		Table: Over-charging of battery			P
Constant charging current (A).....		0.46			—
Supply voltage (Vdc).....		5.88			—
Sample no.	OCV before charging (Vdc)	Total charging time (minute)	Maximum outer case temperature (°C)	Results	
B06	3.44	70	32.8	P	
B07	3.44	70	34.6	P	
B08	3.44	70	31.7	P	
B09	3.44	70	32.2	P	
B10	3.44	70	34.1	P	
<b>Supplementary information:</b>					
- No fire or explosion - Others (please explain)					

7.3.7		Table: Forced discharge (cells)			P
Sample no.	OCV before application of reverse charge (Vdc)	Measured reverse charge I <sub>t</sub> (A)	Lower limit discharge voltage (Vdc)	Results	
C26	3.43	0.23	3.0	P	
C27	3.43	0.23	3.0	P	
C28	3.43	0.23	3.0	P	
C29	3.42	0.23	3.0	P	
C30	3.42	0.23	3.0	P	
<b>Supplementary information:</b>					
- No fire or explosion - Others (please explain)					

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	
B14	4.17	4.17	4.156	4.155	P	
B15	4.17	4.17	4.173	4.172	P	
B16	4.17	4.17	4.159	4.158	P	
<b>Supplementary information:</b>						
- No fire or explosion - No rupture - No leakage - No venting - Others (please explain)						

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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
B17	4.18	4.18	4.147	4.146	P
B18	4.17	4.17	4.168	4.167	P
B19	4.18	4.18	4.129	4.128	P

**Supplementary information:**

- No fire or explosion
- No rupture
- No leakage
- No venting
- Others (please explain)

7.3.9 Table: Forced internal short circuit (cells)					P
Sample no.	Chamber ambient T (°C)	OCV before test (Vdc)	Particle location <sup>1)</sup>	Maximum applied pressure (N)	Results
<b>Samples charged at charging temperature upper limit (60°C)</b>					
C44	60	4.16	1	400	P
C45	60	4.16	1	400	P
C46	60	4.16	1	400	P
C47	60	4.16	2	400	P
C48	60	4.16	2	400	P
<b>Samples charged at charging temperature lower limit (-5°C)</b>					
C49	-5	4.13	1	400	P
C50	-5	4.13	1	400	P
C51	-5	4.13	1	400	P
C52	-5	4.13	2	400	P
C53	-5	4.12	2	400	P

**Supplementary information:**

<sup>1)</sup> 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 or explosion
- Others (please explain)

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D.2 Table: Internal AC resistance for coin cells				N
Sample no.	Ambient T (°C)	Store time (h)	Resistance Rac (Ω)	Results <sup>1)</sup>
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
<b>Supplementary information: --</b>				

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### Attachment A Photos of product

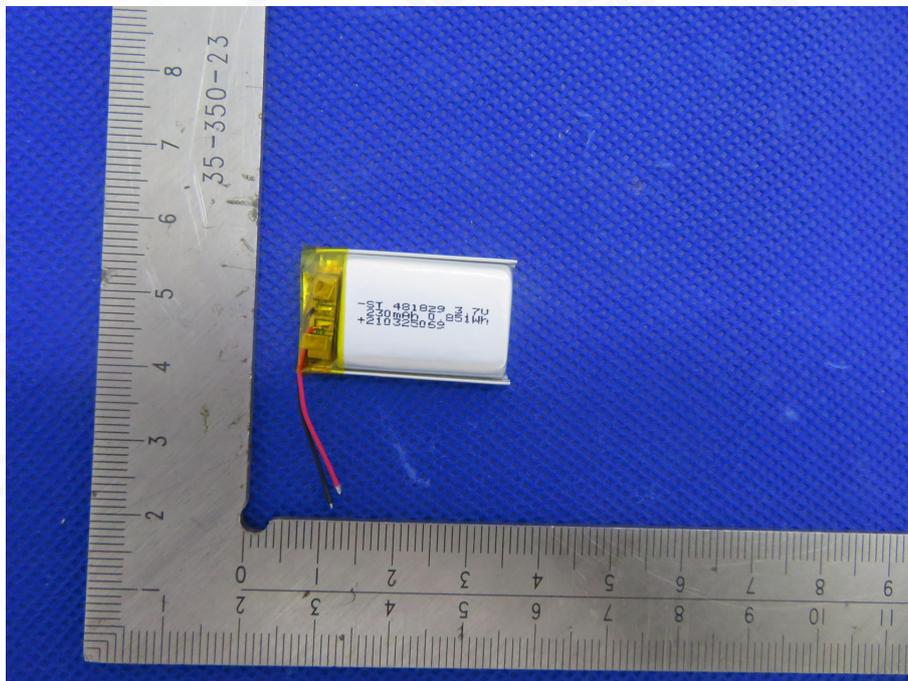
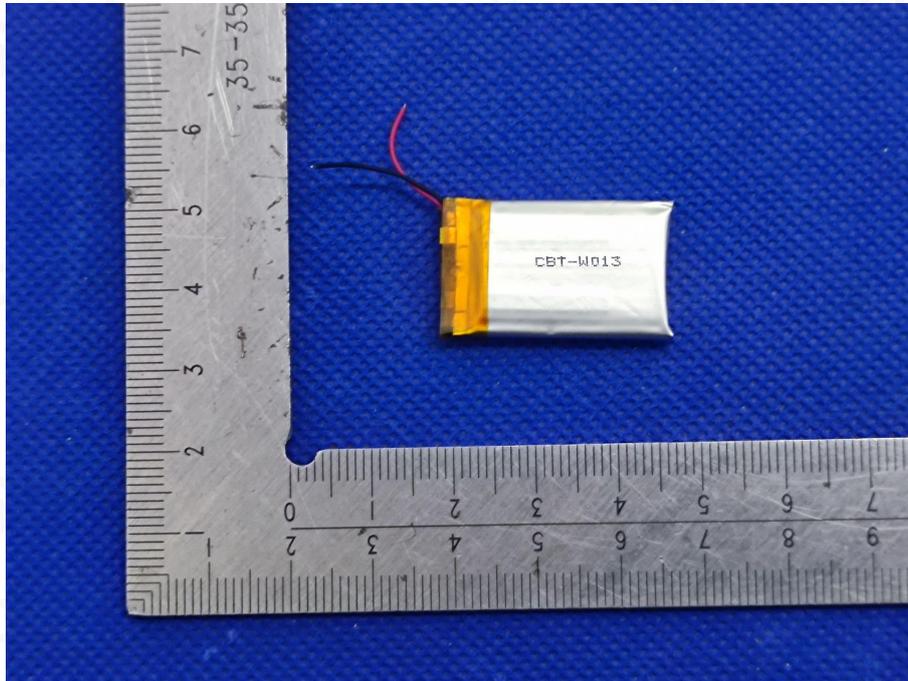


Fig.1 – View of battery

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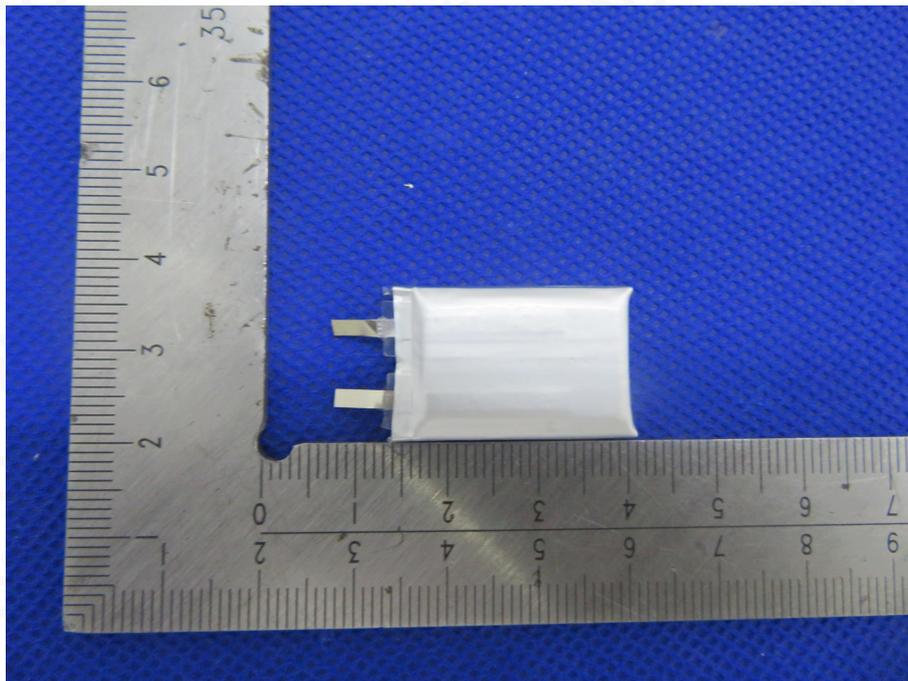
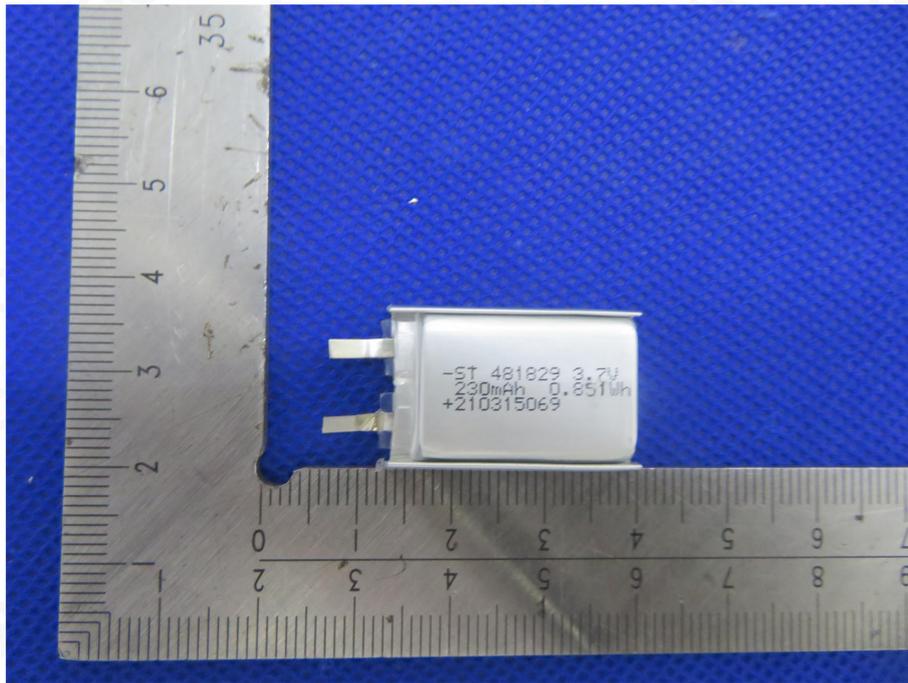


Fig.2 — View of cell

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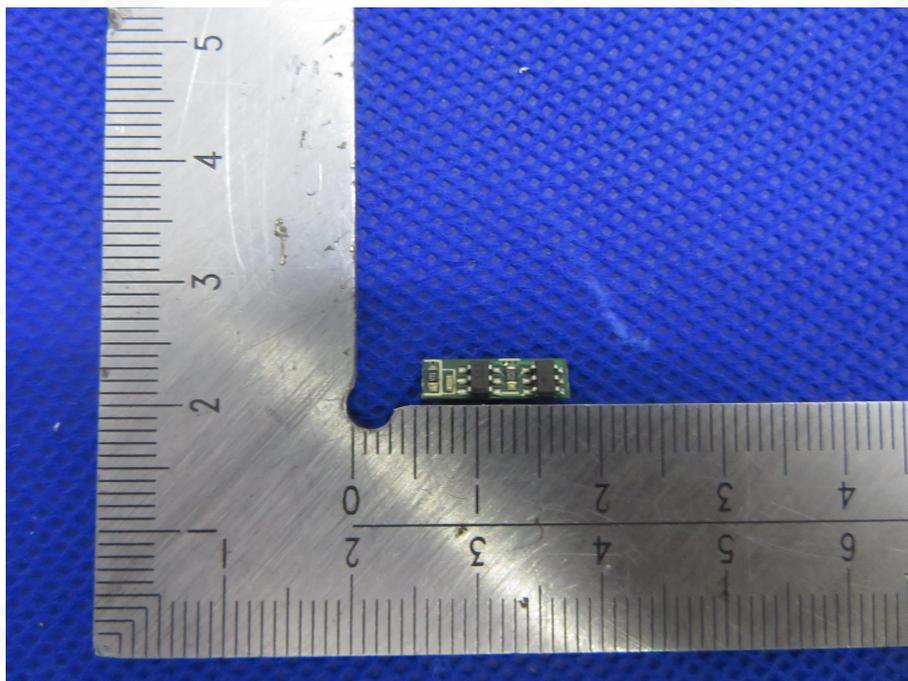


Fig.3 – View of PCB

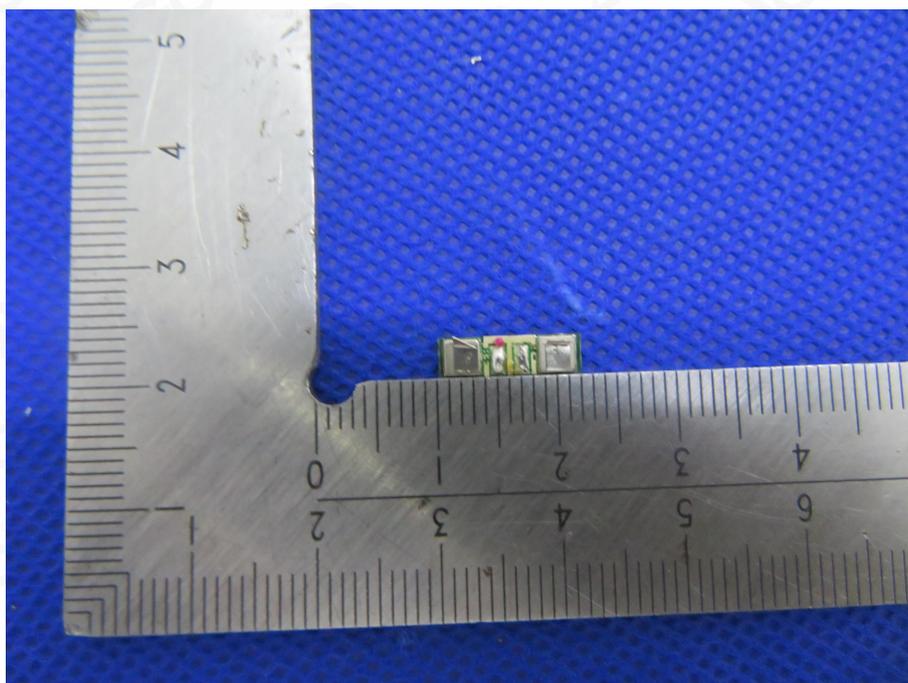


Fig.4 – View of PCB

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### Test Equipment

No	Equipment Name	Model No.	Equipment No.	Calibration validity	Using (√)
1	Battery Testing System	CT-3008W-15V3A	AGC-BT-E001	2022-04-07	√
2	Battery Testing System	CT-3008W-15V3A	AGC-BT-E004	2022-04-07	√
3	Battery Testing System	CT-4004-60V20A-NA	AGC-BT-E081	2022-03-11	√
4	Temperature Short-circuit Tester	BE-8102	AGC-BT-E106	2022-03-11	√
5	Battery Crush Tester	GX-5067-CSM	AGC-BT-E126	2022-03-11	√
6	Drop Tester	BE-F315S	AGC-BT-E135	2022-08-18	√
7	Vacuum test chamber	GX-3020-ZC1M	AGC-BT-E133	2021-05-19	√
8	Rapid Temperature Change Tester	EAT225-40A5	AGC-BT-E016	2022-03-16	√
9	DC Power Supply	PSW30-36	AGC-BT-E045	2022-04-10	√
10	DC Power Supply	PSW30-36	AGC-BT-E046	2022-04-10	√
11	DC Power Supply	PSW30-36	AGC-BT-E048	2022-03-17	√
12	DC Power Supply	IT6932A	AGC-BT-E050	2022-03-17	√
13	DC Power Supply	TPR-6410D	AGC-BT-E054	2022-03-17	√
14	DC Power Supply	TPR-6410D	AGC-BT-E055	2022-04-10	√
15	DC Power Supply	TPR-6410D	AGC-BT-E056	2022-04-10	√
16	Forced Internal Short Circuit testing machine	BE-6045W	AGC-BT-E069	2022-03-11	√
17	Vibration Test Instrument	MPA403 /M124M /GT600M	AGC-BT-E070	2022-02-02	√
18	Rapid Temperature Change Tester	EAT225-40A5	AGC-BT-E074	2022-03-16	√
19	Digital Multimeter	117C	AGC-BT-E154	2022-03-25	√
20	Electronic Load	3310F	AGC-BT-E102	2022-04-10	√
21	Data Acquisition Instrument	AT4524	AGC-BT-E103	2022-03-11	√
22	Data Acquisition Instrument	34970A	AGC-BT-E076	2022-03-11	√
23	Mechanical Shock Test Instrument	DP-1200-60	AGC-RE-E062	2022-03-10	√
24	Thermal Shock Tester	GX-3020-B800T	AGC-BT-E138	2021-09-06	√
25	Battery Swallowing Gauge	AG133F3	AGC-BT-E120	2022-03-23	√

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.





## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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