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检测
TESTING
CNAS L3503

APPLICATION FOR LOW VOLTAGE DIRECTIVE TEST REPORT

On Behalf of

SHENZHEN FBTECH CO., LTD



Ni-MH BATTERY

**Model: AA2200 1.2V, AA2100 1.2V, AA2000 1.2V,
AA1900 1.2V, AA1850 1.2V**

Prepared For : SHENZHEN FBTECH CO., LTD
NO.8 Tongfuyu industrial Zone Kukeng, Guanlan Town, Bao'an District, Shenzhen, Guangdong, China

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Date of Test: Apr. 29, 2016 to May. 31, 2016
Date of Report: Apr. 29, 2016
Report Number: R0116041136S-1

TEST REPORT	
EN 62133: 2013	
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	
Report	
Reference No.....	R0116041136S-1
Compiled by (+ signature).....	Vinson Wu / Project Engineer 
Approved by (+ signature).....	Mark Zhu / Project Manager 
Date of issue.....	May. 31, 2016
Contents.....	25 pages(including 5 pages of photo)
Testing laboratory	
Name.....	Shenzhen Anbotek Compliance Laboratory Limited
Address.....	East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao' an District, Shenzhen, Guangdong, China
Testing location.....	Shenzhen Anbotek Compliance Laboratory Limited
Client	
Name.....	SHENZHEN FBTECH CO., LTD
Address.....	NO.8 Tongfuyu industrial Zone Kukeng, Guanlan Town, Bao' an District, Shenzhen, Guangdong, China
Test specification	
Standard.....	EN 62133: 2013
Test procedure	Compliance with EN 62133: 2013
Procedure deviation.....	N.A.
Non-standard test method.....	N.A.
Test item	
Description.....	Ni-MH BATTERY
Trademark.....	N.A.
Model and/or type reference.....	AA2200 1.2V, AA2100 1.2V, AA2000 1.2V, AA1900 1.2V, AA1850 1.2V
Serial number.....	N.A.
Manufacturer.....	SHENZHEN FBTECH CO., LTD
Address.....	NO.8 Tongfuyu industrial Zone Kukeng, Guanlan Town, Bao' an District, Shenzhen, Guangdong, China
Rating(s).....	DC 1.2V
Particulars: test item vs. test requirements	

Ambient temperature..... : 20 °C ± 5 °C.

Test case verdicts

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)

Testing

Date of receipt of test item : Apr. 29, 2016

Date(s) of performance of test..... : Apr. 29, 2016 to May. 31, 2016

General remarks

This test 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 dot is used as the decimal separator.

Comments:

1. The maximum ambient temperature is 45°C.
2. If no otherwise specified, all tests performed at the model: AA2200 1.2V
3. Details information for the cell of model AA2200 1.2V
Nominal voltage: 1.2V
Rated capacity:2200mAh
Standard charge current:220mA
End of discharge voltage: 1.0V
Dimension(D*H): Diameter:14.52mm, Height:49.75mm
Weight: Approx 28.349g

Copy of marking:



EN 62133: 2013			
Clause	Requirement – Test	Result - Remark	Verdict
4	Parameter measurement tolerances		--
	Parameter measurement tolerances		P
5	General safety considerations		--
5.1	General		P
5.2	Insulation and wiring		--
	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		P
	Insulation resistance (MΩ)..... :		N
	Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements		N
	Orientation of wiring maintains adequate creepage and clearance distances between conductors		N
	Mechanical integrity of internal connections accommodates reasonably foreseeable misuse		N
5.3	Venting		--
	Battery cases and cells incorporate a pressure relief mechanism or are constructed so that they relieve excessive internal pressure at a value and rate that will preclude rupture, explosion and self-ignition		P
	Encapsulation used to support cells within an outer casing does not cause the battery to overheat during normal operation nor inhibit pressure relief		P
5.4	Temperature/voltage/current management		--
	Batteries are designed such that abnormal temperature rise conditions are prevented		N
	Batteries are designed to be within temperature, voltage and current limits specified by the cell manufacturer		N
	Batteries are provided with specifications and charging instructions for equipment manufacturers so that associated chargers are designed to maintain charging within the temperature, voltage and current limits specified		N
5.5	Terminal contacts		--

EN 62133: 2013			
Clause	Requirement – Test	Result - Remark	Verdict
	Terminals have a clear polarity marking on the external surface of the battery		P
	The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current		P
	External terminal contact surfaces are formed from conductive materials with good mechanical strength and corrosion resistance		P
	Terminal contacts are arranged to minimize the risk of short circuits		P
5.6	Assembly of cells into batteries		--
5.6.1	If there is more than one battery housed in a single battery case, cells used in the assembly of each battery have closely matched capacities, be of the same design, be of the same chemistry and be from the same manufacturer		N
	Each battery has an independent control and protection		N
	Manufacturers of cells make recommendations about current, voltage and temperature limits so that the battery manufacturer/designer may ensure proper design and assembly		N
	Batteries that are designed for the selective discharge of a portion of their series connected cells incorporate separate circuitry to prevent the cell reversal caused by uneven discharges		N
	Protective circuit components are added as appropriate and consideration given to the end-device application		N
	When testing a battery, the manufacturer of the battery provides a test report confirming the compliance according to this standard		N
5.6.2	Design recommendation for lithium systems only		--
	For the battery consisting of a single cell or a single cellblock: - Charging voltage of the cell does not exceed the upper limit of the charging voltage specified in Clause 8.1.2, Table 4; or		N
	- Charging voltage of the cell does not exceed the different upper limit of the charging voltage determined through Clause 8.1.2, NOTE 1.		N

EN 62133: 2013			
Clause	Requirement – Test	Result - Remark	Verdict
	For the battery consisting of series-connected plural single cells or series-connected plural cellblocks: - The voltages of any one of the single cells or single cellblocks does not exceed the upper limit of the charging voltage, specified in Clause 8.1.2, Table 4, by monitoring the voltage of every single cell or the single cellblocks; or		N
	- The voltages of any one of the single cells or single cellblocks does not exceed the different upper limit of the charging voltage, determined through Clause 8.1.2, NOTE 1, 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: - Charging is stopped when the upper limit of the charging voltage, specified in Clause 8.1.2, Table 4, is exceeded for any one of the single cells or single cellblocks by measuring the voltage of every single cell or the single cellblocks; or		N
	- Charging is stopped when the upper limit of the different charging voltage, determined through Clause 8.1.2, NOTE 1, 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
5.7	Quality plan		--
	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		P
6	Type test conditions		--
	Tests were made with the number of cells or batteries specified in Table 1 for nickel-cadmium and nickel-metal hydride systems and Table 2 for lithium systems, using cells or batteries that are not more than six months old	According to Table 2 of the standard. Less than six months	P
	Unless noted otherwise in the test methods, testing was conducted in an ambient of 20°C ± 5°C.	The tests are conducted in an ambient of 20°C ± 5°C	P
7	Specific requirements and tests (nickel systems)		--

EN 62133: 2013			
Clause	Requirement – Test	Result - Remark	Verdict
7.1	Charging procedure for test purposes		P
7.2	Intended use		--
7.2.1	Continuous low-rate charging (cells)		--
	Results: No fire. No explosion		P
7.2.2	Vibration		--
	Results: No fire. No explosion. No leakage		P
7.2.3	Moulded case stress at high ambient temperature		--
	Oven temperature (°C).....		N
	Results: No physical distortion of the battery casing resulting in exposure if internal components		N
7.2.4	Temperature cycling		--
	Results: No fire. No explosion. No leakage.		P
7.3	Reasonably foreseeable misuse		--
7.3.1	Incorrect installation cell		--
	The test was carried out using: - Four fully charged cells of the same brand, type, size and age connected in series, with one of them reversed; or		P
	- A stabilized dc power supply.		P
	Results: No fire. No explosion..... :		P
7.3.2	External short circuit		--
	The cells or batteries were tested until one of the following occurred: - 24 hours elapsed; or		P
	- The case temperature declined by 20% of the maximum temperature rise		P
	Results: No fire. No explosion..... :		P
7.3.3	Free fall		--
	Results: No fire. No explosion.		P
7.3.4	Mechanical shock (crash hazard)		--
	Results: No fire. No explosion. No leakage.		P
7.3.5	Thermal abuse		--
	Oven temperature (°C).....		P
	Results: No fire. No explosion.		P
7.3.6	Crushing of cells		--

EN 62133: 2013			
Clause	Requirement – Test	Result - Remark	Verdict
	The crushing force was released upon: - The maximum force of 13 kN \pm 1 kN has been applied; or		P
	- An abrupt voltage drop of one-third of the original voltage has been obtained		P
	The cell is prismatic type and a second set of samples was tested, rotated 90° around longitudinal axis compared to the first set		P
	Results: No fire. No explosion..... :		P
7.3.7	Low pressure		--
	Chamber pressure (kPa)..... :		P
	Results: No fire. No explosion. No leakage.		P
7.3.8	Overcharge	(See Table 7.3.8)	--
	Results: No fire. No explosion..... :		P
	No fire, no explosion.		P
7.3.9	Forced discharge		--
	Results: No fire. No explosion..... :		P

8	Specific requirements and tests (lithium systems)		--
8.1	Charging procedures for test purposes		--
8.1.1	First procedure: This charging procedure applied to tests other than those specified in 8.1.2		N
8.1.2	Second procedure: This charging procedure applied to the tests of 8.3.1, 8.3.2, 8.3.4, 8.3.5, and 8.3.9		--
	If a cell's specified upper and/or lower charging temperature exceeds values for the upper and/or lower limit test temperatures of Table 4, the cells were charged at the specified values plus 5 °C for the upper limit and minus 5 °C for the lower limit		N
	A valid rationale was provided to ensure the safety of the cell (see Figure A.1)..... :		N
	For a different upper limit charging voltage (i.e. other than for lithium cobalt oxide systems at 4.25 V), the applied upper limit charging voltage and upper limit charging temperatures were adjusted accordingly		N

EN 62133: 2013			
Clause	Requirement – Test	Result - Remark	Verdict
	A valid rationale was provided to ensure the safety of the cell (see Figure A.1)..... :		N
8.2	Intended use		--
8.2.1	Continuous charging at constant voltage (cells)		--
	Results: No fire. No explosion..... :		N
8.2.2	Moulded case stress at high ambient temperature (battery)		--
	Oven temperature (°C).....		N
	Results: No physical distortion of the battery casing resulting in exposure if internal components		N
8.3	Reasonably foreseeable misuse		--
8.3.1	External short circuit (cell)		--
	The cells were tested until one of the following occurred: - 24 hours elapsed; or		N
	- The case temperature declined by 20% of the maximum temperature rise		N
	Results: No fire. No explosion..... :		N
8.3.2	External short circuit (battery)		--
	The cells were tested until one of the following occurred: - 24 hours elapsed; or		N
	- The case temperature declined by 20% of the maximum temperature rise		N
	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
	Results: No fire. No explosion..... :		N
8.3.3	Free fall		--
	Results: No fire. No explosion.		N
8.3.4	Thermal abuse (cells)		--
	The cells were held at 130°C ± 2°C for: - 10 minutes; or		N
	- 30 minutes for large cells (gross mass of more than 500 g as defined in IEC 62281)		N
	Oven temperature (°C).....		N

EN 62133: 2013			
Clause	Requirement – Test	Result - Remark	Verdict
	Gross mass of cell (g).....		N
	Results: No fire. No explosion.		N
8.3.5	Crush (cells)		--
	The crushing force was released upon: - The maximum force of 13 kN \pm 1 kN has been applied; or		N
	- An abrupt voltage drop of one-third of the original voltage has been obtained; or		N
	- 10% of deformation has occurred compared to the initial dimension		N
	Results: No fire. No explosion..... : (See Table 8.3.5)		N
8.3.6	Over-charging of battery		--
	Test was continued until the temperature of the outer casing: - Reached steady state conditions (less than 10°C change in 30-minute period); or		N
	- Returned to ambient		N
	Results: No fire. No explosion..... :		N
8.3.7	Forced discharge (cells)		--
	Results: No fire. No explosion..... :		N
8.3.8	Transport tests		--
	Manufacturer's documentation provided to show compliance with UN Recommendations on Transport of Dangerous Goods		N
8.3.9	Design evaluation – Forced internal short circuit (cells)		--
	The cells complied with national requirement for.....		N
	The pressing was stopped upon: - 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		N
	Results: No fire..... :		N
9	Information for safety		--
	The manufacturer of secondary cells ensures that information is provided about current, voltage and temperature limits of their products.		P

EN 62133: 2013			
Clause	Requirement – Test	Result - Remark	Verdict
	The manufacturer of batteries ensures that equipment manufacturers and, in the case of direct sales, end-users are provided with information to minimize and mitigate hazards.		P
	Systems analyses performed by device manufacturers to ensure that a particular battery design prevents hazards from occurring during use of a product		P
	As appropriate, information relating to hazard avoidance resulting from a system analysis is provided to the end user.....:		P

10	Marking		--
10.1	Cell marking		--
	Cells marked as specified in the applicable cell standards: IEC 61951-1, IEC 61951-2 or IEC 61960.		P
10.2	Battery marking		--
	Batteries marked in accordance with the requirements for the cells from which they are assembled.		N
	Batteries marked with an appropriate caution statement.		N
10.3	Other information		--
	Storage and disposal instructions marked on or supplied with the battery.		N
	Recommended charging instructions marked on or supplied with the battery.		N

11	Packaging		--
	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.		N

Annex A	Charging range of secondary lithium ion cells for safe use		--
A.1	General		N
A.2	Safety of lithium-ion secondary battery		N
A.3	Consideration on charging voltage		--

EN 62133: 2013			
Clause	Requirement – Test	Result - Remark	Verdict
A.3.1	General		N
A.3.2	Upper limit charging voltage		--
A.3.2.1	General		N
A.3.2.2	Explanation of safety viewpoint		N
A.3.2.3	Safety requirements, when different upper limit charging voltage is applied		N
A.4	Consideration of temperature and charging current		--
A.4.1	General		N
A.4.2	Recommended temperature range		--
A.4.2.1	General		N
A.4.2.2	Safety consideration when a different recommended temperature range is applied		N
A.4.3	High temperature range		--
A.4.3.1	General		N
A.4.3.2	Explanation of safety viewpoint		N
A.4.3.3	Safety considerations when specifying charging conditions in high temperature range		N
A.4.3.4	Safety consideration when specifying new upper limit in high temperature range		N
A.4.4	Low temperature range		--
A.4.4.1	General		N
A.4.4.2	Explanation of safety viewpoint		N
A.4.4.3	Safety considerations, when specifying charging conditions in low temperature range		N
A.4.4.4	Safety considerations when specifying a new lower limit in the low temperature range		N
A.4.5	Scope of the application of charging current		N
A.5	Sample preparation		--
A.5.1	General		N
A.5.2	Insertion procedure for nickel particle to generate internal short		N
	The insertion procedure carried out at 20°C±5°C and under -25 °C of dew point		N
A.5.3	Disassembly of charged cell		N
A.5.4	Shape of nickel particle		N

EN 62133: 2013			
Clause	Requirement – Test	Result - Remark	Verdict
A.5.5	Insertion of nickel particle to cylindrical cell		N
A.5.5.1	Insertion of nickel particle to winding core		N
A.5.5.2	Mark the position of nickel particle on the both end of winding core of the separator		N
A.5.6	Insertion of nickel particle to prismatic cell		N

Tables

	TABLE: List of critical components				P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹⁾
Cell	SHENZHEN FBTECH CO., LTD	AA2200 1.2V	DC 1.2V, 2200mAh	EN 62133: 2013	Test with appliance
1) An asterisk indicates a mark which assures the agreed level of surveillance.					

7.2.1	TABLE: Continuous low-rate charging (cells)				P
Sample No.	Recommended Charging Voltage Vc, Vdc	Recommended Charging Current Irec, mA	OCV at start of Test, Vdc	Results	
C01	--	220	1.436	No fire, no explosion, no leakage.	
C02	--	220	1.440		
C03	--	220	1.442		
C04	--	220	1.433		
C05	--	220	1.442		
Note(s): Test time is 28 days.					

Tables

7.2.2	TABLE: Vibration			P
Sample No.	Vibration time (minute)	OCV at Start of Test, Vdc	Visual examination result	
Cells				
C06	90*3	1.442	No fire, no explosion, no leakage	
C07	90*3	1.435		
C08	90*3	1.441		
C09	90*3	1.437		
C10	90*3	1.441		
Note(s): 1. The vibration is applied in each of three mutually perpendicular directions. 2. Rest cell or batteries for 1 h, then make a visual inspection.				

7.2.3	TABLE: Moulded case stress at high ambient temperature			N
Sample No.	OCV at Start of Test, Vdc	Temperature(°C)	Result	
--	--	70±2	No physical distortion of the battery case resulting in exposure of internal components.	
--	--	70±2		
--	--	70±2		
Note(s): Test time is 7 hours.				

Tables

7.2.4	TABLE: Temperature cycling			P
Sample No.	OCV at Start of Test, Vdc	Temperature(°C)	Result	
Cells				
C11	1.440	(−20 °C, +75 °C)	No fire, no explosion, no leakage.	
C12	1.436	(−20 °C, +75 °C)		
C13	1.442	(−20 °C, +75 °C)		
C14	1.447	(−20 °C, +75 °C)		
C15	1.432	(−20 °C, +75 °C)		
Note(s):				

7.3.1	TABLE: Incorrect Installation of a Cell Test (Nickel Systems)		N
Smample No.	OCV (reversed cell) Vdc	Result	
--	--	--	
--	--	--	
--	--	--	
--	--	--	
--	--	--	
Note (s):			

7.3.2	TABLE: -External short circuit					P
Sample No.	Ambient temperature, (°C)	OCV at start of test, (Vdc)	Resistance of circuit, (mΩ)	Maximum case temperature rise ΔT, (°C)	Results	
C16	20 ±5	1.433	80 ±20	66.4	No fire, no explosion.	
C17	20 ±5	1.431	80 ±20	58.6		
C18	20 ±5	1.442	80 ±20	59.2		
C19	20 ±5	1.437	80 ±20	63.4		
C20	20 ±5	1.445	80 ±20	61.8		
C21	55 ±5	1.431	80 ±20	80.1	No fire, no explosion.	
C22	55 ±5	1.433	80 ±20	81.5		

Tables

C23	55 ± 5	1.446	80 ± 20	78.1	
C24	55 ± 5	1.432	80 ± 20	82.1	
C25	55 ± 5	1.443	80 ± 20	75.1	
Note (s):					

7.3.3	TABLE: Free fall			P
Sample No.	OCV at start of test, Vdc	Drop height (m)	Result	
Cells				
C26	1.447	1.0	No fire, no explosion.	
C27	1.443	1.0	No fire, no explosion.	
C28	1.444	1.0	No fire, no explosion.	
Note (s): Each sample dropped for 3 times.				

7.3.4	TABLE: Mechanical shock (crash hazard)		P
Sample No.	OCV at start of test, Vdc	Result	
C29	1.442	No fire, no explosion, no leakage.	
C30	1.441		
C31	1.437		
C32	1.434		
C33	1.436		
Note (s):			

7.3.5	TABLE: Thermal abuse				P
Sample No.	OCV at start of test, Vdc	Ambient temperature, (°C)	Temperature raised at a rate(°C/min)	Result	
C34	1.447	130±2	5±2	No fire, no explosion	
C35	1.436	130±2	5±2	No fire, no explosion	
C36	1.443	130±2	5±2	No fire, no explosion	
C37	1.441	130±2	5±2	No fire, no explosion	
C38	1.437	130±2	5±2	No fire, no explosion	

Tables

Note (s):

7.3.6	TABLE: Crushing of cells			P
Sample No.	OCV at start of test, Vdc	a hydraulic ram exerting a force	Result	
C39	1.441	13 KN ± 1 KN	No fire, no explosion.	
C40	1.447	13 KN ± 1 KN		
C41	1.435	13 KN ± 1 KN		
C42	1.443	13 KN ± 1 KN		
C43	1.442	13 KN ± 1 KN		
Note (s):				

7.3.7	TABLE: Low pressure			P
Sample No.	OCV at start of test, Vdc	Pressure	Result	
C44	1.432	≤11.6KPa	No fire, no explosion, no leakage.	
C45	1.437	≤11.6KPa	No fire, no explosion, no leakage.	
C46	1.431	≤11.6KPa	No fire, no explosion, no leakage.	
Note (s): Test time is 6 hours.				

7.3.8	TABLE: Overcharge for nicke systems				P
Sample No.	Prior to charging, Vdc (V)	Maximum Charge Current, mA	Time for Charging,(h)	Result	
C47	1.145	220	12.5	No fire, no explosion.	
C48	1.144	220	12.5		
C49	1.157	220	12.5		
C50	1.148	220	12.5		
C51	1.156	220	12.5		
Note (s):					

Tables

4.3.9	TABLE: Forced discharge				P
Sample No.	Reverse Charge current 1 I _t A	Before reverse charge, Vdc	OCV after Test, Vdc	Result	
C52	2200mA	1.147	0.00	No fire, no explosion.	
C53	2200mA	1.141	0.00	No fire, no explosion.	
C54	2200mA	1.142	0.00	No fire, no explosion.	
C55	2200mA	1.142	0.00	No fire, no explosion.	
C56	2200mA	1.146	0.00	No fire, no explosion.	
Note (s): Test time is 1.5 hours.					

Photo Documentation

Photo 1

- ☐ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☒ top
- ☐ bottom
- ☐ internal

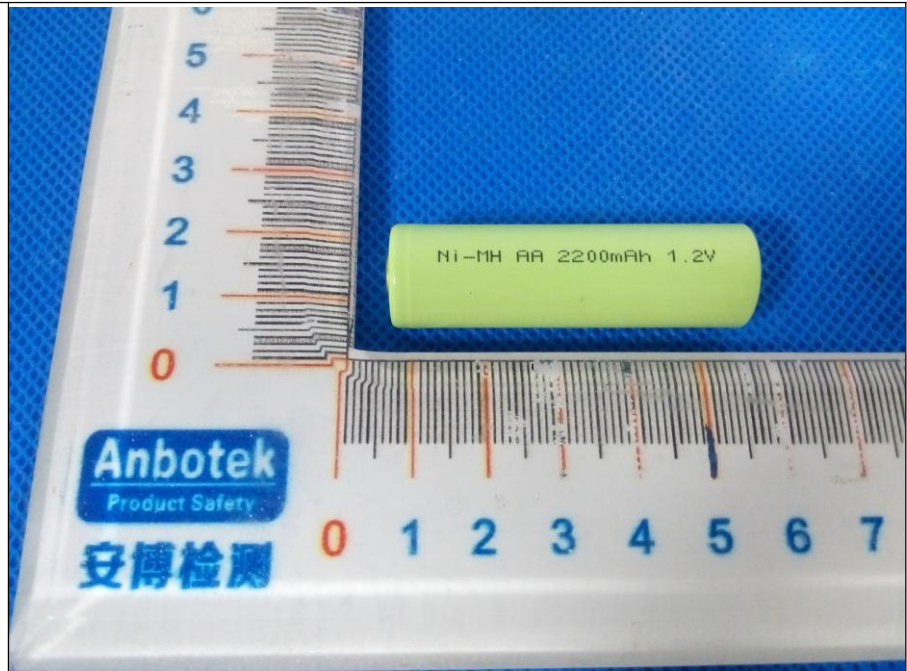


Photo 2

- ☐ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☐ top
- ☒ bottom
- ☐ internal

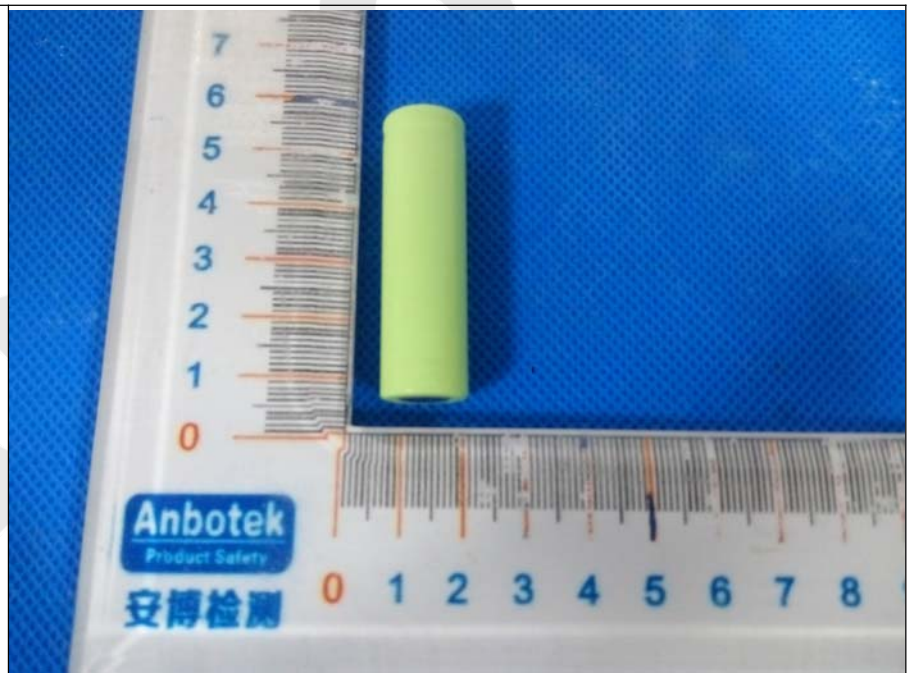


Photo Documentation

Photo 3

- ☐ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☒ top
- ☐ bottom
- ☐ internal

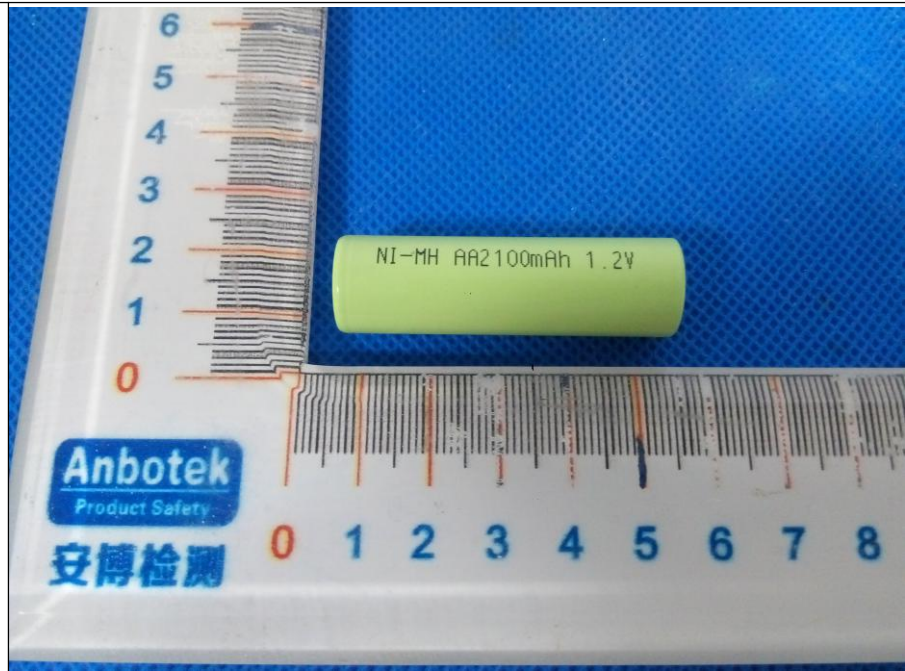


Photo 4

- ☐ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☐ top
- ☒ bottom
- ☐ internal

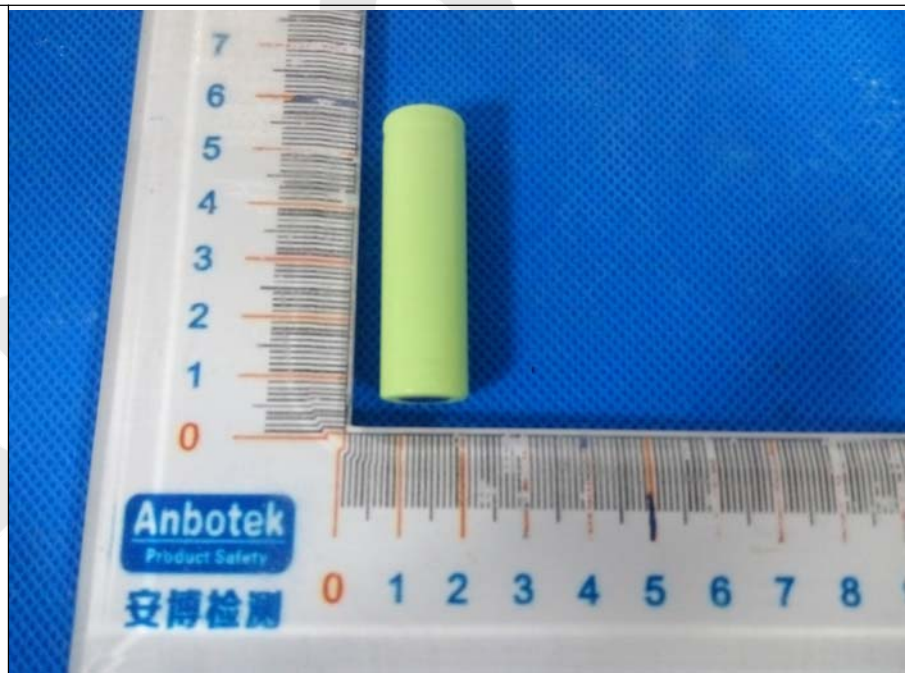


Photo Documentation

Photo 5

- ☐ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☒ top
- ☐ bottom
- ☐ internal

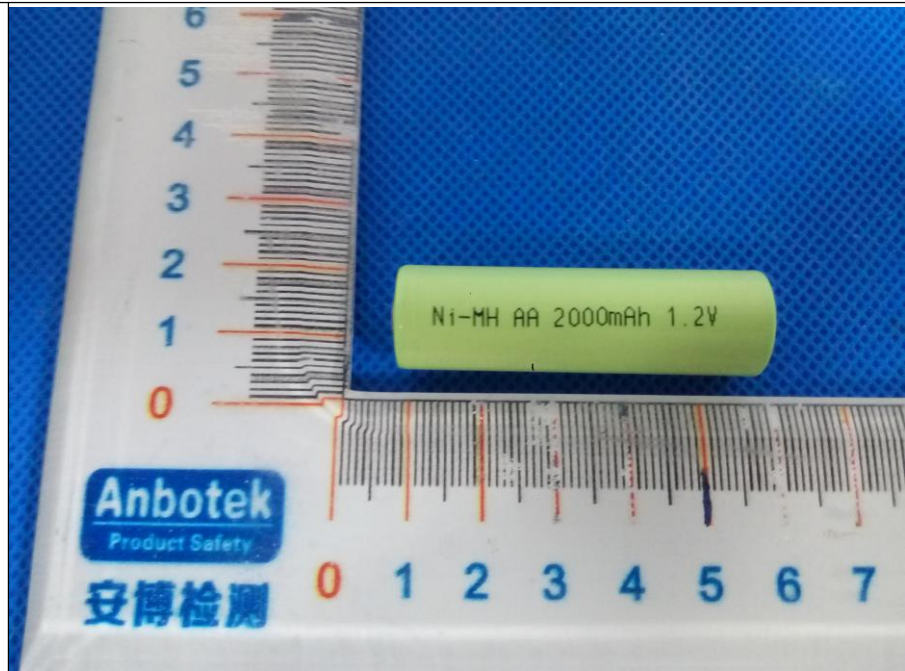


Photo 6

- ☐ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☐ top
- ☒ bottom
- ☐ internal

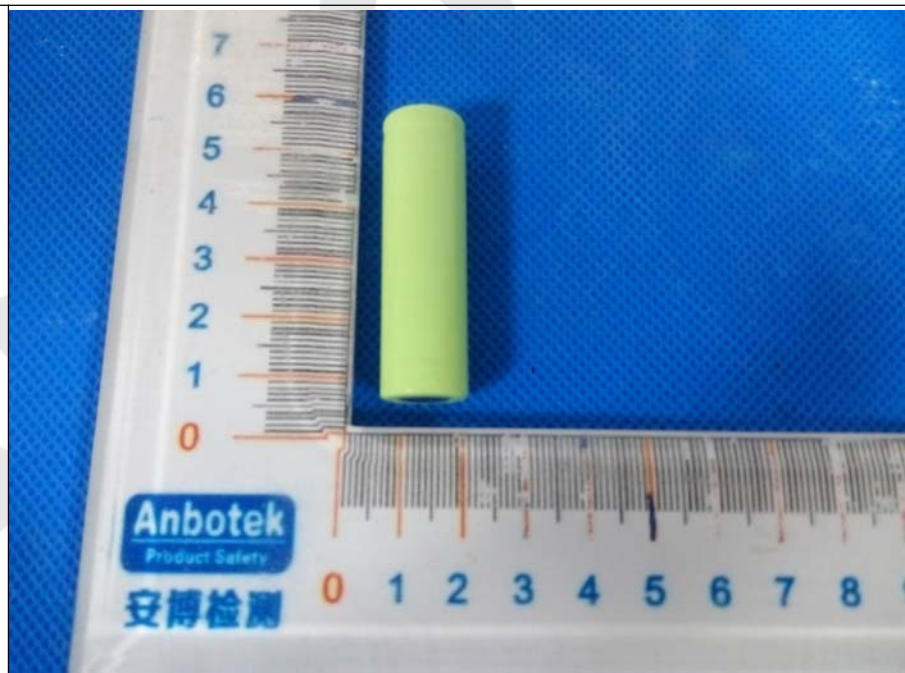


Photo Documentation

Photo 7

- ☐ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☒ top
- ☐ bottom
- ☐ internal

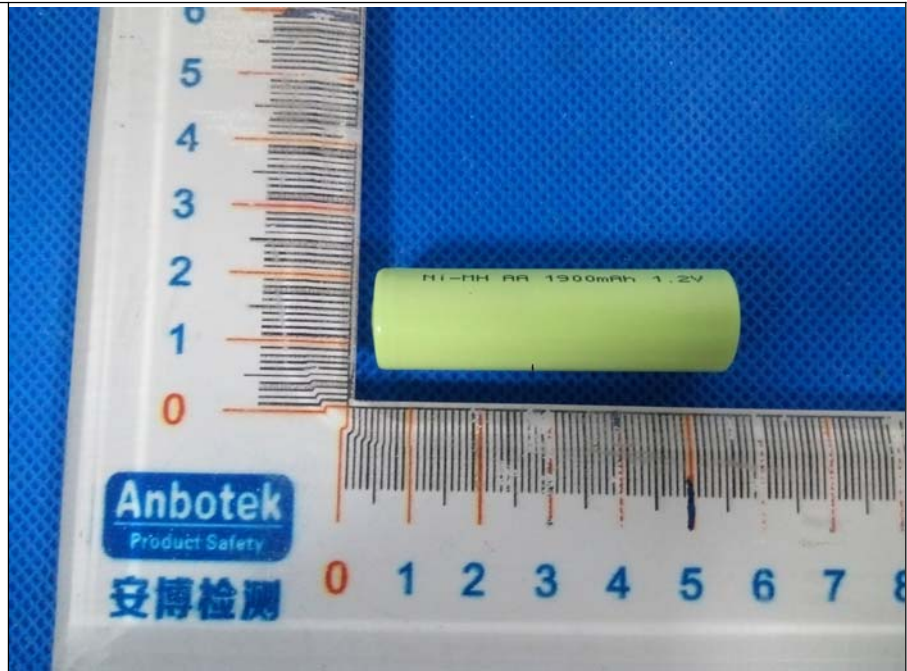


Photo 8

- ☐ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☐ top
- ☒ bottom
- ☐ internal

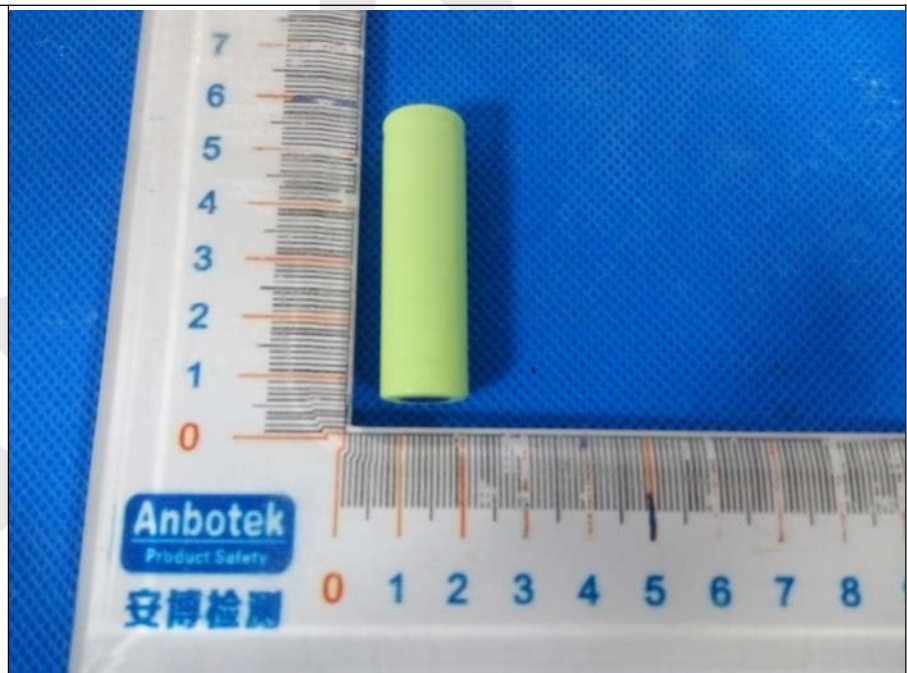


Photo Documentation

Photo 9

- ☐ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☒ top
- ☐ bottom
- ☐ internal

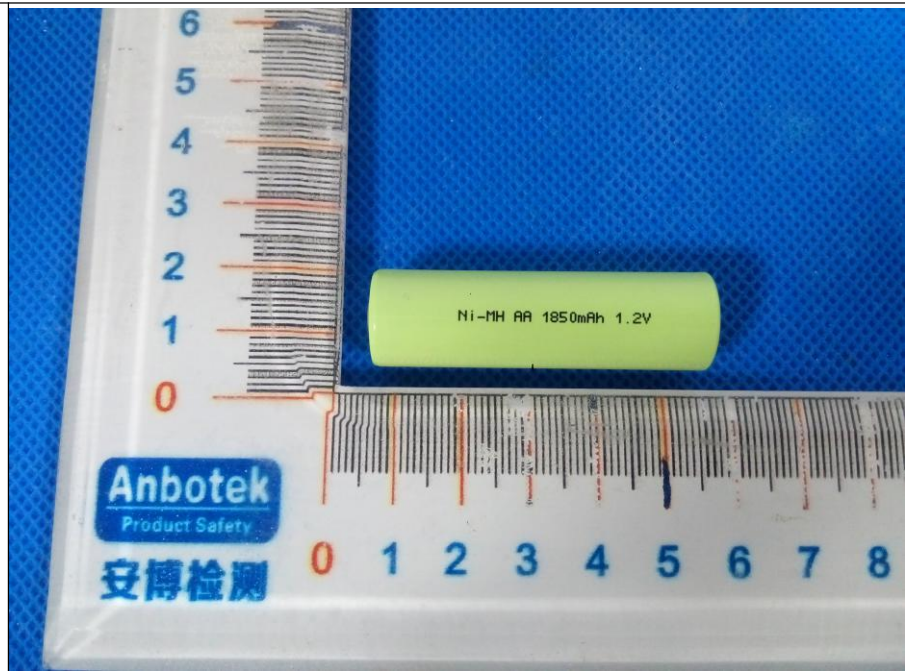


Photo 10

- ☐ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☐ top
- ☒ bottom
- ☐ internal

