

TEST REPORT IEC 62133-1:2017 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 1: Nickel systems	
Report Number.....:	BCTC-LH181002903S
Date of issue.....:	2018-12-17
Total number of pages.....:	22pages
Applicant's name.....:	XINXIANG ZHONGYUE POWER SUPPLY LTD.COMPANY
Address.....:	ZHONGMAFANG INDUSTRIAL PARK IN MUYE DISTRICT XINXIANG CITY HENAN PROVINCE
Test item description.....:	Ni-MH cell
Trade Mark.....:	N/A
Manufacturer.....:	XINXIANG ZHONGYUE POWER SUPPLY LTD.COMPANY
Address.....:	ZHONGMAFANG INDUSTRIAL PARK IN MUYE DISTRICT XINXIANG CITY HENAN PROVINCE
Model/Type reference.....:	(1)AAA600mAh,(2) AAA500mAh,(3) AAA300mAh, (4) AAA200mAh.
Ratings.....:	See page 4.
Testing Laboratory:	Shenzhen BCTC Testing Co., Ltd.
Testing location/ address.....:	BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China
Tested by (name, signature).....:	Dawkins Dou 
Checked by(name, signature).....:	Peter Pan 
Approved by (name, signature).....:	Jim Deng 
General disclaimer: The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of Shenzhen BCTC Testing Co., Ltd. The authenticity of this Test Report and its contents can be verified by contacting the Shenzhen BCTC Testing Co., Ltd., responsible for this Test Report.	



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

Main report:18 pages

Attachment 1:Photo documentation (4page).

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

cl.7.2.1 Continuous low-rate charging
cl.7.2.2 Vibration;
cl.7.2.4 Temperature cycling;
cl.7.3.1 Incorrect installation;
cl.7.3.2 External short circuit;
cl.7.3.3 Free fall;
cl.7.3.4 Mechanical shock;
cl.7.3.5 Thermal abuse;
cl.7.3.6 Crushing of cells;
cl.7.3.7 Low pressure;
cl.7.3.8 Overcharge;
cl.7.3.9 Forced discharge;

Testing location:

Shenzhen BCTC Testing Co., Ltd.
BCTC Building & 1-2F, East of B Building,
Pengzhou Industrial, Fuyuan 1st Road, Qiaotou
Community, Fuyong Street, Bao'an District,
Shenzhen, China

Summary of compliance with National Differences (List of countries addressed):**N/A**☒ **The product fulfils the requirements of EN62133-1: 2017**

Copy of marking plate:

The artwork below may be only a draft.

Ni-MH cell HRL 11/46 AAA600mAh
+ 1.2V, 600mAh 0.1C, 16h 2018.09 -
XINXIANG ZHONGYUE POWER SUPPLY LTD.COMPANY

Ni-MH cell HRL 11/46 AAA500mAh
+ 1.2V, 500mAh 0.1C, 16h 2018.09 -
XINXIANG ZHONGYUE POWER SUPPLY LTD.COMPANY

Ni-MH cell HRL 11/46 AAA300mAh
+ 1.2V, 300mAh 0.1C, 16h 2018.09 -
XINXIANG ZHONGYUE POWER SUPPLY LTD.COMPANY

Ni-MH cell HRL 11/46 AAA200mAh
+ 1.2V, 200mAh 0.1C, 16h 2018.09 -
XINXIANG ZHONGYUE POWER SUPPLY LTD.COMPANY

Test item particulars..... :	
Classification of installation and use..... :	To be defined in final product
Supply Connection..... :	DC terminal
Recommend charging method declared by the manufacturer..... :	0.1C For 16 hours
Discharge current (0,2 It A)..... :	120mA for AAA600mAh, 100mA for AAA500mAh, 60mA for AAA300mAh, 40mA for AAA200mAh
Specified final voltage..... :	1.0V
Chemistry..... :	nickel systems
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..... :	2018-10-23
Date (s) of performance of tests..... :	2018-10-25 to 2018-11-25
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.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60086-02:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided..... :	☐ Yes ☒ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)..... :	Same as manufacturer

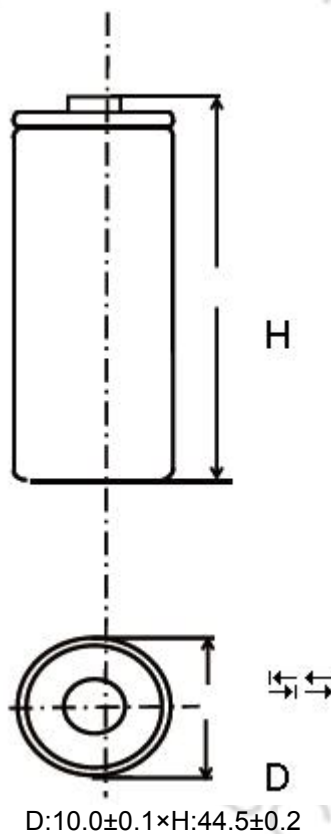
General product information:

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

The main features of the cell are shown as below:

Model	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Cut-off Voltage
AAA600mAh	600mAh	1.2V	60mA	120mA	600mA	600mA	1.0V
AAA500mAh	500mAh	1.2V	50mA	100mA	500mA	500mA	1.0V
AAA300mAh	300mAh	1.2V	30mA	60mA	300mA	300mA	1.0V
AAA200mAh	200mAh	1.2V	20mA	40mA	200mA	200mA	1.0V

Construction:



Cell (Unit: mm)

4	PARAMETER MEASUREMENT TOLERANCES		P
	Parameter measurement tolerances		P
5	General safety considerations		P
5.1	General		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 surfaces exists	N/A
	Insulation resistance (MΩ)..... :		—
	Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements	Complied	P
	Orientation of wiring maintains adequate creepage and clearance distances between conductors	Complied	P
	Mechanical integrity of internal connections accommodates reasonably foreseeable misuse	Complied	P
5.3	Venting	Venting mechanism facilitated on cells.	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		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		N/A
	Batteries are designed such that abnormal temperature-rise conditions are prevented		N/A
	Batteries are designed to be within temperature, voltage and current limits specified by the cell manufacturer		N/A
	Batteries are provided with specifications and charging instructions for equipment manufacturers so that associated chargers are designed to maintain charging within the temperature, voltage and current limits specified		N/A
5.5	Terminal contacts		P
	The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current	The "+" and "-" marked on the cell.	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	Cell only.	N/A

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/A
	Battery has some type of safety device or feature for charging.		N/A
	Manufacturers of cells specify current, voltage and temperature limits so that the battery manufacturer /designer may ensure proper design and assembly		N/A
	Batteries that are designed for the selective discharge of a portion of their series connected cells incorporate circuitry to prevent operation of cells outside the limits specified by the cell manufacturer		N/A
	Protective circuit components are added as appropriate and consideration given to the end-device application		N/A
	When testing a battery, the manufacturer of the battery provides a test report confirming the compliance according to this document		N/A
5.7	Quality plan		N/A
	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		N/A

6	Type test and sample size		P
	Tests were made with the number of cells or batteries specified in Table 1 using cells or batteries that are not more than six months old	Complied. Nickel systems	P
	Unless noted otherwise in the test methods, testing was conducted in an ambient of 20°C ± 5°C.	Tests are carried out at 20°C ± 5°C.	P

7	Specific requirements and tests		P
7.1	Charging procedure for test purposes	Test is carried out at 20°C ± 5°C Charging method: 0.1C for 16 hours	P
7.2	Intended use		P
7.2.1	Continuous low-rate charging (cells)	0.1C, Duration: 28days	P
	Results: No fire. No explosion	(See Table 7.2.1)	P
7.2.2	Vibration	Tested complied.	P
	Results: No fire. No explosion. No leakage	(See Table 7.2.2)	P
7.2.3	Case stress at high ambient temperature(batteries)		N/A
	Oven temperature (°C).....:		—

	Results: No physical distortion of the battery case resulting in exposure of internal protective components and cells		N/A
7.2.4	Temperature cycling		P
	Results: No fire. No explosion. No leakage.	No fire. No explosion. No leakage.	P
7.3	Reasonably foreseeable misuse		P
7.3.1	Incorrect installation (cells)	Tested complied.	P
	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..... :	(See Table 7.3.1)	P
7.3.2	External short circuit		P
	The cells or batteries were tested until one of the following occurred: - 24 hours elapsed; or		N/A
	- The case temperature declined by 20% of the maximum temperature rise		P
	Results: No fire. No explosion..... :	(See Table 7.3.2)	P
7.3.3	Free fall		P
	Results: No fire. No explosion.	No fire. No explosion.	P
7.3.4	Mechanical shock (crash hazard)		P
	Results: No fire. No explosion. No leakage.	No fire. No explosion. No leakage.	P
7.3.5	Thermal abuse (cells)		P
	Oven temperature (°C)..... :	130°C	—
	Results: No fire. No explosion.	No fire. No explosion.	P
7.3.6	Crushing of cells	Tested complied.	P
	The crushing force was released upon: - The maximum force of 13 kN± 0.78 kN has been applied; or		P
	- An abrupt voltage drop of one-third of the original voltage has been obtained		N/A
	The cell is prismatic type and a second set of samples was tested, rotated 90° around longitudinal axis compared to the first set	Cylindrical cell.	N/A
	Results: No fire. No explosion..... :	(See Table 7.3.6)	P
7.3.7	Low pressure (cells)		P
	Chamber pressure (kPa)..... :	11.6kPa	—
	Results: No fire. No explosion. No leakage.	No fire. No explosion. No leakage.	P

7.3.8	Overcharge	Tested complied.	P
	Results: No fire. No explosion..... :	(See Table 7.3.8)	P
7.3.9	Forced discharge	Tested complied.	P
	Results: No fire. No explosion..... :	(See Table 7.3.9)	P

8	Information for safety		P
8.1	General		P
	The manufacturer of secondary cells ensures that information is provided about current, voltage and temperature limits of their products.	Information for safety mentioned in manufacturer's specifications.	P
	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.	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, information relating to hazard avoidance resulting from a system analysis is provided to the end user.....:		N/A
	Guidance is provided in IEC TR 62188 on the design are provided for information in Annex A and Annex B.		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 swallowable out of the reach of children.		N/A
	-Swallowing may lead to burns, perforation of soft tissue, and death. Severe burns can occur within 2h of ingestion.		N/A
	-In case of ingestion of a cell or battery, seek medical assistance promptly.		N/A

9	Marking		P
9.1	Cell marking		P
	Cells marked as specified in the applicable cell standards: IEC 61951-1 or IEC 61951-2.	The cell is marked in accordance with IEC 61951-2, also see page 4.	P
	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
	However, cell marking can be indicated with the battery, the instructions and/or the specifications.		P
9.2	Battery marking		N/A

	Batteries marked as specified in the applicable cell standards: IEC 61951-1 or IEC 61951-2.		N/A
	Batteries marked with an appropriate caution statement.		N/A
	Terminals have clear polarity marking on the external surface of the battery.		N/A
	Batteries with keyed external connector need not be marked with polarity markings if the design of the external connector prevents reverse polarity connections		N/A
9.3	Caution for ingestion of small cells and batteries		P
	Small cells and batteries determined to be small are including a caution statement regarding the hazards of ingestion in accordance with 8.2.		P
	Small cells and batteries are intended for direct sale in consumer-replaceable applications, caution for ingestion are given on the immediate package.		P
9.4	Other information		P
	Storage and disposal instructions marked on or supplied with the battery.	Information for disposal instructions mentioned in manufacturer's specifications.	P
	Recommended charging instructions marked on or supplied with the battery.	Information for recommended charging instructions mentioned in manufacturer's specifications.	P

10	Packaging		P
	Packaging for button cells are not be small enough to fit within the limits of the ingestion gauge of Figure 2		P
	Annex C for information regarding packaging		P

Annex A (informative)	Recommendations to equipment manufacturers and battery assemblers	N/A
Annex B (informative)	Recommendations to the end-users	N/A
Annex C (informative)	Packaging	N/A

TABLE: Critical components information					P
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity ¹⁾
Cell	XINXIANG ZHONGYUE POWER SUPPLY LTD.COMPANY	AAA600mAh	1.2V, 600mAh	IEC 62133: 2012	Test with appliance
		AAA500mAh	1.2V, 500mAh		
		AAA300mAh	1.2V, 300mAh		
		AAA200mAh	1.2V, 200mAh		
-Positive Electrode	XINXIANG ZHONGYUE POW ER SUPPLY LTD.COMPANY	AAA	Cobalt Hydroxide, Nickel Hydroxide	--	--
-Negative Electrode	XINXIANG ZHONGYUE POW ER SUPPLY LTD.COMPANY	AAA	Nickel & Iron	--	--
-Electrolyte	XINXIANG ZHONGYUE POW ER SUPPLY LTD.COMPANY	AAA	Potassium Hydroxide (KOH)	--	--
-Separator	XINXIANG ZHONGYUE POW ER SUPPLY LTD.COMPANY	AAA	110*24, PP+PE, 100℃	--	--
Supplementary information: ¹⁾ Provided evidence ensures the agreed level of compliance.					

7.2.1		TABLE: Continuous low rate charge (cells)				P
Model	Recommended charging method, (CC, CV, or CC/CV)	Recommended charging voltage V_c , (Vdc)	Recommended charging current I_{rec} , (A)	OCV at start of test, (Vdc)	Results	
Model : AAA600mAh						
C1	CC	--	0.06	1.48	P	
C2	CC	--	0.06	1.46	P	
C3	CC	--	0.06	1.47	P	
C4	CC	--	0.06	1.46	P	
C5	CC	--	0.06	1.47	P	
Model : AAA500mAh						
C1	CC	--	0.05	1.49	P	
C2	CC	--	0.05	1.50	P	
C3	CC	--	0.05	1.49	P	
C4	CC	--	0.05	1.49	P	
C5	CC	--	0.05	1.49	P	
Model : AAA300mAh						
C1	CC	--	0.03	1.49	P	
C2	CC	--	0.03	1.49	P	
C3	CC	--	0.03	1.50	P	
C4	CC	--	0.03	1.50	P	
C5	CC	--	0.03	1.49	P	
Model : AAA200mAh						
C1	CC	--	0.02	1.49	P	
C2	CC	--	0.02	1.50	P	
C3	CC	--	0.02	1.51	P	
C4	CC	--	0.02	1.50	P	
C5	CC	--	0.02	1.51	P	
Supplementary information:						
- No fire or explosion						

7.2.2	TABLE: Vibration (cells)		P
Model		OCV at start of test, (Vdc)	Results
Model : AAA600mAh			
C6		1.49	P
C7		1.48	P
C8		1.48	P
C9		1.48	P
C10		1.49	P
Model : AAA500mAh			
C6		1.48	P
C7		1.47	P
C8		1.48	P
C9		1.48	P
C10		1.48	P
Model : AAA300mAh			
C6		1.48	P
C7		1.47	P
C8		1.48	P
C9		1.48	P
C10		1.48	P
Model : AAA200mAh			
C6		1.50	P
C7		1.50	P
C8		1.51	P
C9		1.51	P
C10		1.49	P
Supplementary information: - No fire or explosion - No leakage			

7.2.2	TABLE: Vibration (batteries)		N/A
Model		OCV at start of test, (Vdc)	Results
Supplementary information: - No fire or explosion - No leakage			

7.3.1	TABLE: Incorrect installation (cells)		P
Model		OCV of reversed cell, (Vdc)	Results
Model : AAA600mAh			
C16		1.48	P
C17		1.48	P
C18		1.47	P
C19		1.48	P
C20		1.48	P
Model : AAA500mAh			
C16		1.49	P
C17		1.48	P
C18		1.49	P
C19		1.48	P
C20		1.49	P
Model : AAA300mAh			
C16		1.48	P
C17		1.47	P
C18		1.46	P
C19		1.47	P
C20		1.48	P
Model : AAA200mAh			
C16		1.50	P
C17		1.49	P
C18		1.49	P
C19		1.50	P
C20		1.50	P
Supplementary information:			
- No fire or explosion			

7.3.2	TABLE: External short circuit(cells)					P
Model	Ambient (at 20°C ± 5°C or 55°C ± 5°C)	OCV at start of test, (Vdc)	Resistance of circuit, (Ω)	Maximum case temperature (°C)	Results	
Model : AAA600mAh						
C21	21.7	1.46	0.081	81.9	P	
C22	21.7	1.46	0.087	82.7	P	
C23	21.7	1.46	0.085	82.5	P	
C24	21.7	1.46	0.081	84.3	P	
C25	21.7	1.46	0.087	81.4	P	

C26	55.6	1.47	0.086	87.1	P
C27	55.6	1.48	0.085	84.5	P
C28	55.6	1.46	0.083	87.5	P
C29	55.6	1.47	0.087	86.7	P
C30	55.6	1.45	0.084	87.1	P
Model : AAA500mAh					
C21	21.5	1.49	0.084	81.4	P
C22	21.5	1.49	0.087	83.7	P
C23	21.5	1.50	0.083	86.5	P
C24	21.5	1.49	0.085	79.2	P
C25	21.5	1.49	0.087	89.4	P
C26	55.6	1.49	0.086	85.6	P
C27	55.6	1.50	0.088	80.7	P
C28	55.6	1.50	0.089	89.1	P
C29	55.6	1.50	0.082	90.2	P
C30	55.6	1.50	0.089	87.3	P
Model : AAA300mAh					
C21	21.4	1.47	0.085	81.0	P
C22	21.4	1.49	0.081	79.4	P
C23	21.4	1.47	0.084	79.1	P
C24	21.4	1.49	0.087	76.5	P
C25	21.4	1.49	0.085	79.3	P
C26	55.6	1.47	0.087	81.5	P
C27	55.6	1.48	0.086	85.4	P
C28	55.6	1.47	0.089	87.1	P
C29	55.6	1.48	0.081	85.2	P
C30	55.6	1.49	0.087	87.1	P
Model : AAA200mAh					
C21	21.9	1.51	0.081	73.4	P
C22	21.9	1.51	0.086	75.1	P
C23	21.9	1.50	0.087	78.3	P
C24	21.9	1.51	0.083	77.6	P
C25	21.9	1.51	0.087	71.4	P
C26	57.0	1.50	0.081	70.5	P
C27	57.0	1.50	0.083	74.1	P
C28	57.0	1.49	0.084	75.9	P
C29	57.0	1.50	0.081	77.8	P

C30	57.0	1.50	0.086	79.1	P
Supplementary information: - No fire or explosion					

7.3.2	TABLE: External short circuit (batteries)					N/A
Model	Ambient (at 20°C ± 5°C or 55°C ± 5°C)	OCV at start of test, (Vdc)	Resistance of circuit, (Ω)	Maximum case temperature (°C)	Results	
Supplementary information: - No fire or explosion						

7.3.6	TABLE: Crush (cells)			P
Model		OCV at start of test, (Vdc)	OCV at removal of crushing force, (Vdc)	Results
Model : AAA600mAh				
C44	1.49	1.49	P	
C45	1.48	1.48	P	
C46	1.49	1.49	P	
C47	1.48	1.48	P	
C48	1.47	1.47	P	
Model : AAA500mAh				
C44	1.49	1.48	P	
C45	1.50	1.49	P	
C46	1.48	1.47	P	
C47	1.49	1.48	P	
C48	1.50	1.49	P	
Model : AAA300mAh				
C44	1.47	1.46	P	
C45	1.48	1.47	P	
C46	1.47	1.46	P	
C47	1.49	1.48	P	
C48	1.46	1.46	P	
Model : AAA200mAh				
C44	1.50	1.50	P	
C45	1.50	1.50	P	
C46	1.49	1.49	P	
C47	1.49	1.49	P	
C48	1.49	1.49	P	
Supplementary information:				

- No fire or explosion

7.3.8	TABLE: Overcharge(cells)				P
Model	OCV prior to charging, (Vdc)	Maximum charge current, (A)	Time for charging, (hours)	Results	
Model : AAA600mAh					
C67	1.11	0.15	10	P	
C68	1.09	0.15	10	P	
C69	1.11	0.15	10	P	
C70	1.12	0.15	10	P	
C71	1.11	0.15	10	P	
Model : AAA500mAh					
C67	1.11	0.125	10	P	
C68	1.10	0.125	10	P	
C69	1.11	0.125	10	P	
C70	1.10	0.125	10	P	
C71	1.10	0.125	10	P	
Model : AAA300mAh					
C67	1.14	0.075	10	P	
C68	1.15	0.075	10	P	
C69	1.17	0.075	10	P	
C70	1.16	0.075	10	P	
C71	1.12	0.075	10	P	
Model : AAA200mAh					
C67	1.11	0.05	10	P	
C68	1.12	0.05	10	P	
C69	1.10	0.05	10	P	
C70	1.11	0.05	10	P	
C71	1.11	0.05	10	P	
Supplementary information:					
- No fire or explosion					

7.3.8	TABLE: Overcharge (batteries)				N/A
Model	OCV prior to charging, (Vdc)	Maximum charge current, (A)	Time for charging, (hours)	Results	
Supplementary information:					
- No fire or explosion					

7.3.9		TABLE: Forced discharge (cells)			P
Model	OCV before application of reverse charge, (Vdc)	Measured reverse charge I_r , (A)	Time for reversed charge, (minutes)	Results	
Model : AAA600mAh					
C72	1.10	0.6	90	P	
C73	1.11	0.6	90	P	
C74	1.12	0.6	90	P	
C75	1.11	0.6	90	P	
C76	1.11	0.6	90	P	
Model : AAA500mAh					
C72	1.16	0.5	90	P	
C73	1.15	0.5	90	P	
C74	1.15	0.5	90	P	
C75	1.16	0.5	90	P	
C76	1.15	0.5	90	P	
Model : AAA300mAh					
C72	1.14	0.3	90	P	
C73	1.15	0.3	90	P	
C74	1.16	0.3	90	P	
C75	1.14	0.3	90	P	
C76	1.17	0.3	90	P	
Model : AAA200mAh					
C72	1.10	0.2	90	P	
C73	1.10	0.2	90	P	
C74	1.11	0.2	90	P	
C75	1.11	0.2	90	P	
C76	1.10	0.2	90	P	
Supplementary information:					
- No fire or explosion					

-- End of Report--

Attachment 1



Photo Documentation

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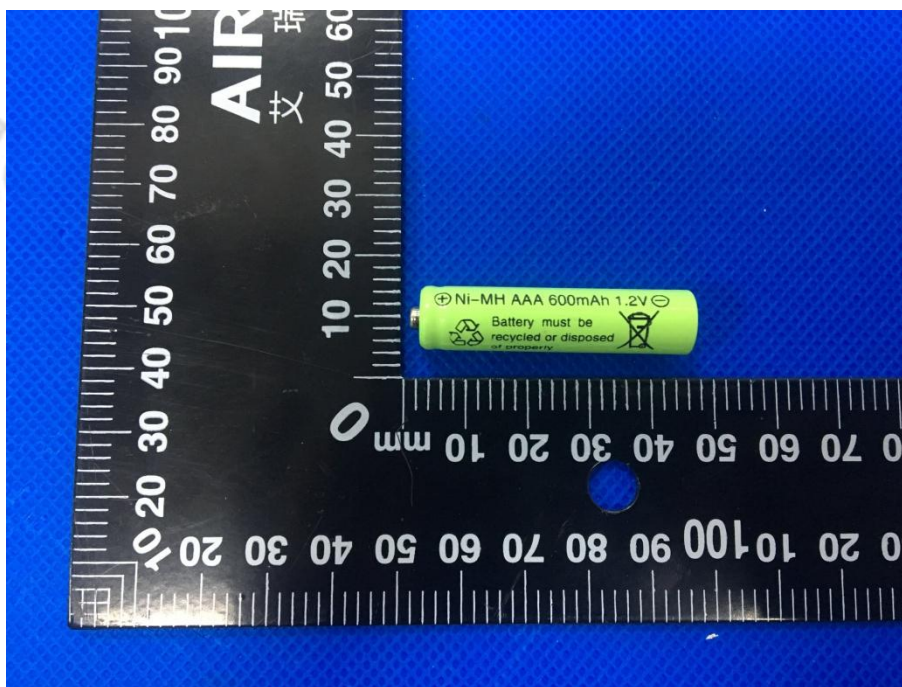


Figure 1 Front view of AAA600mAh

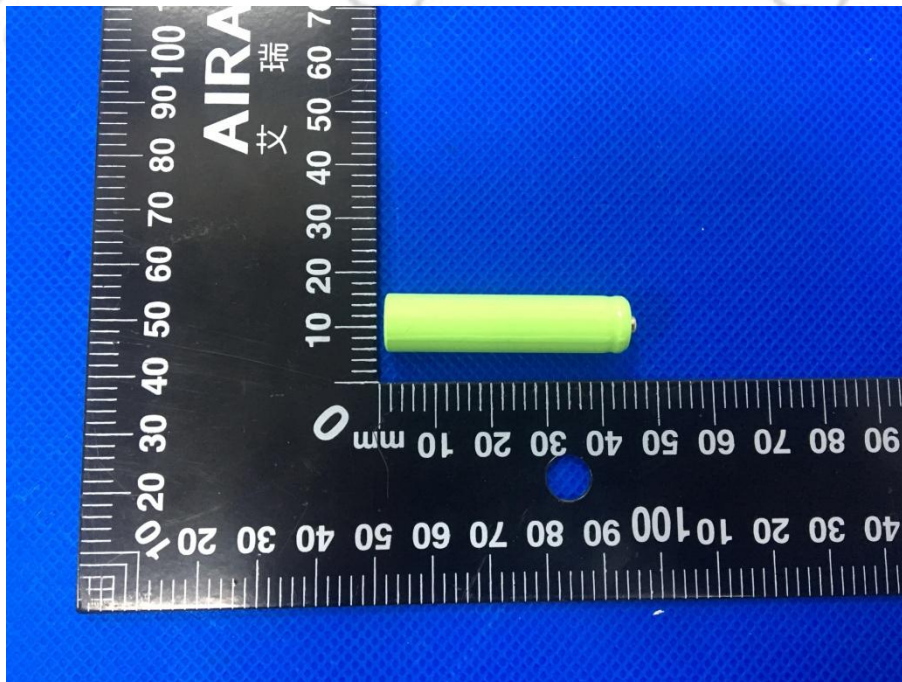


Figure 2 Back view of AAA600mAh

Attachment 1



Photo Documentation

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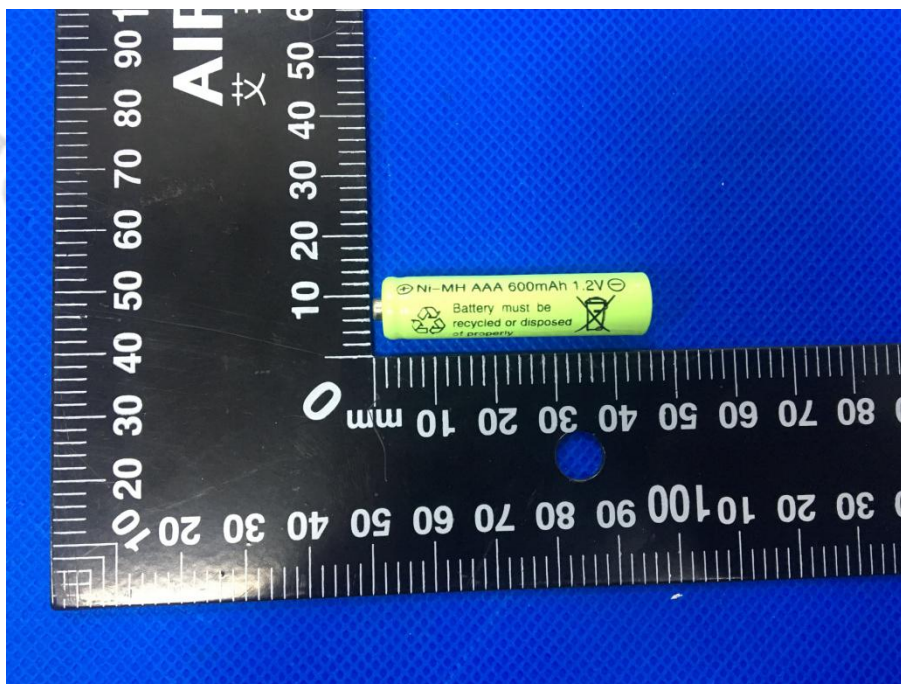


Figure 3 Front view of AAA500mAh

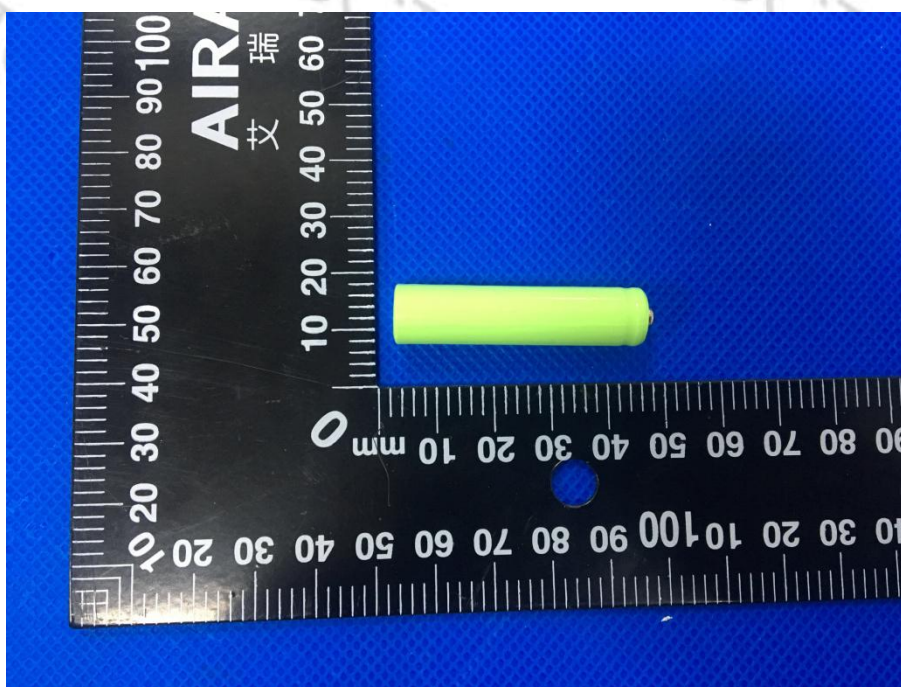


Figure 4 Back view of AAA500mAh

Attachment 1



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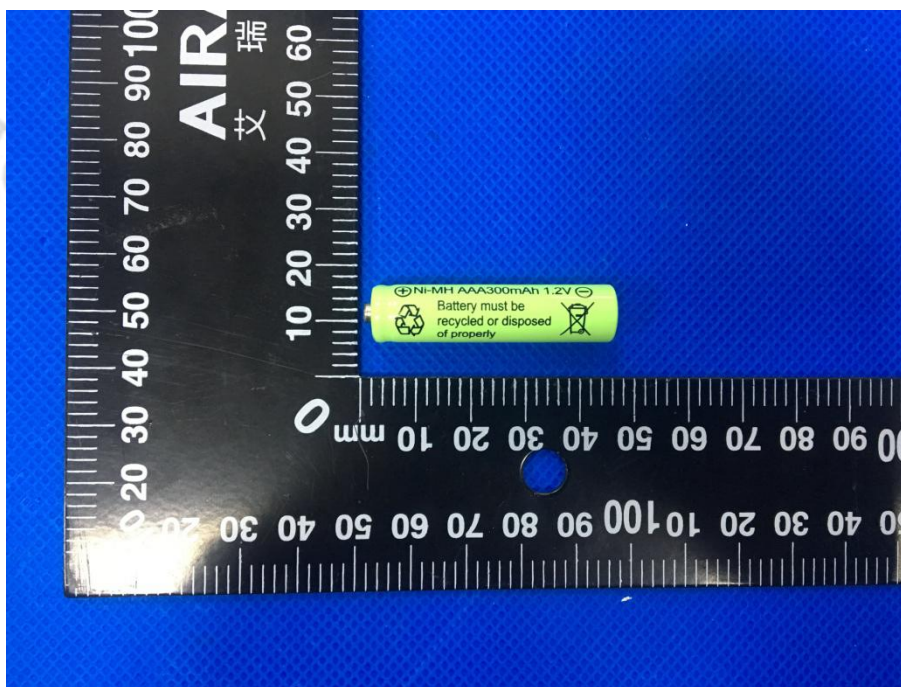


Figure 5 Front view of AAA300mAh

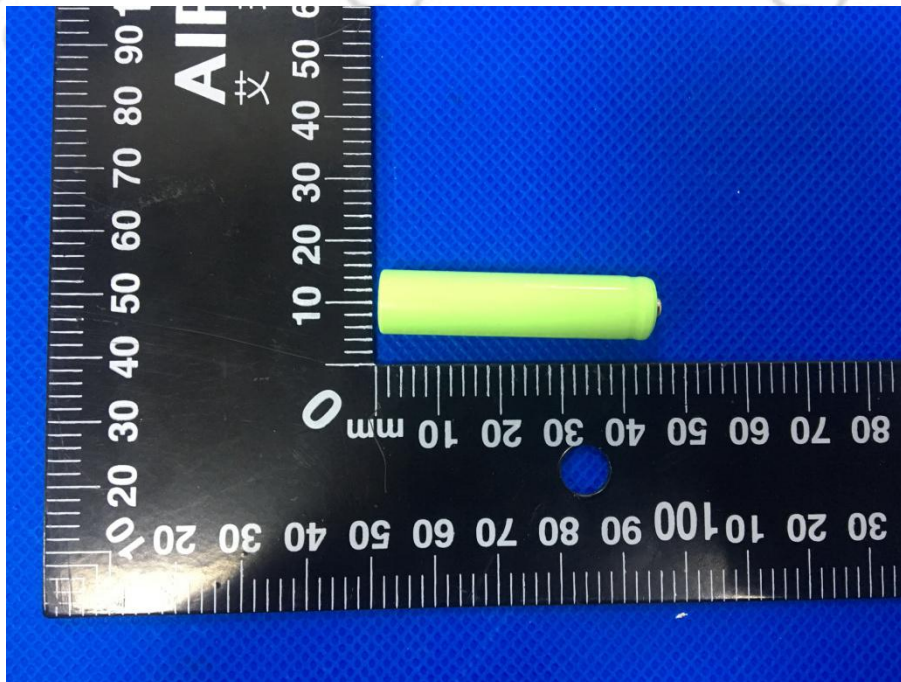


Figure 6 Back view of AAA300mAh

Attachment 1



Photo Documentation

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Report No. BCTC-LH181002903S

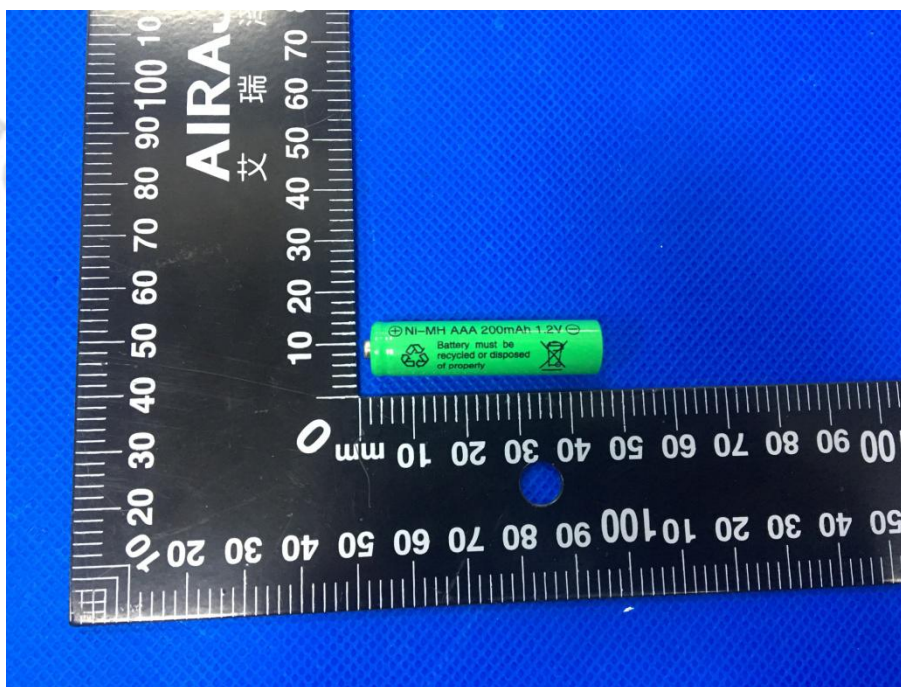


Figure 7 Front view of AAA200mAh

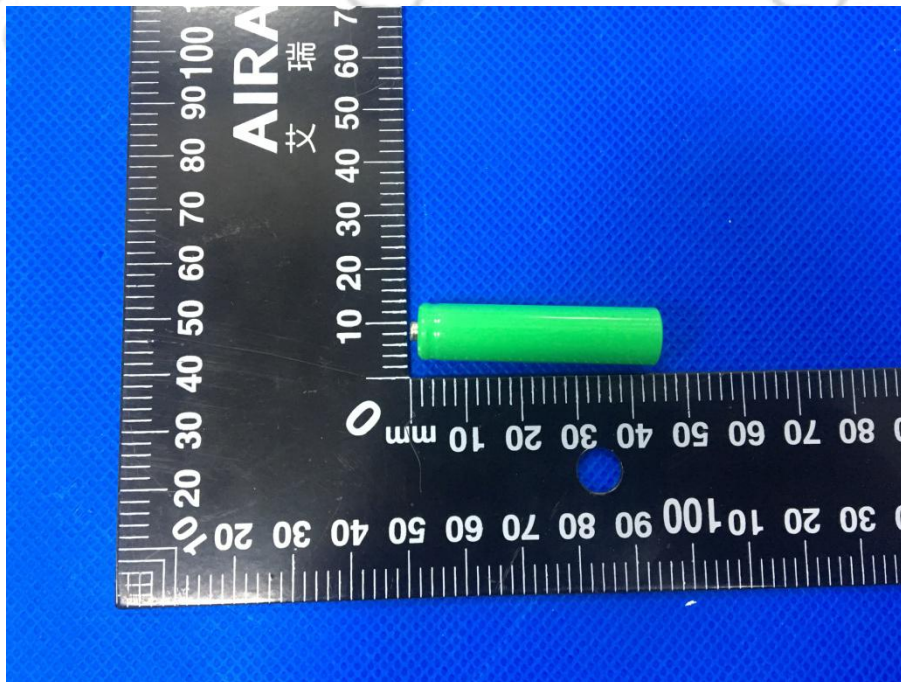


Figure 8 Back view of AAA200mAh