IEC 60086-1 & IEC 60086-2 TEST REPORT

For

Alkaline Battery

Model: LR6 AA

Prepared for: Shenzhen Tcbest Battery Industry Co.,Ltd.
5/F, Building A6, Yintian Industrial Zone, Xixiang, Bao'an District, Shenzhen, China.

Prepared by: Shenzhen NCT Testing Technology Co., Ltd.
A101, 1/F., &2F., B2, Fuqiao 6th Area, Xintian, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
TEL: +86-755-27790922
FAX: +86-755-27790922

Report Number: NCT23027055XI10-1
Date of Test: 2023-07-05 to 2023-07-28
Date of Issue: 2023-07-28

Tested By: Michael Lei
Michael Lei

Reviewed By: Hely Wang
Hely Wang

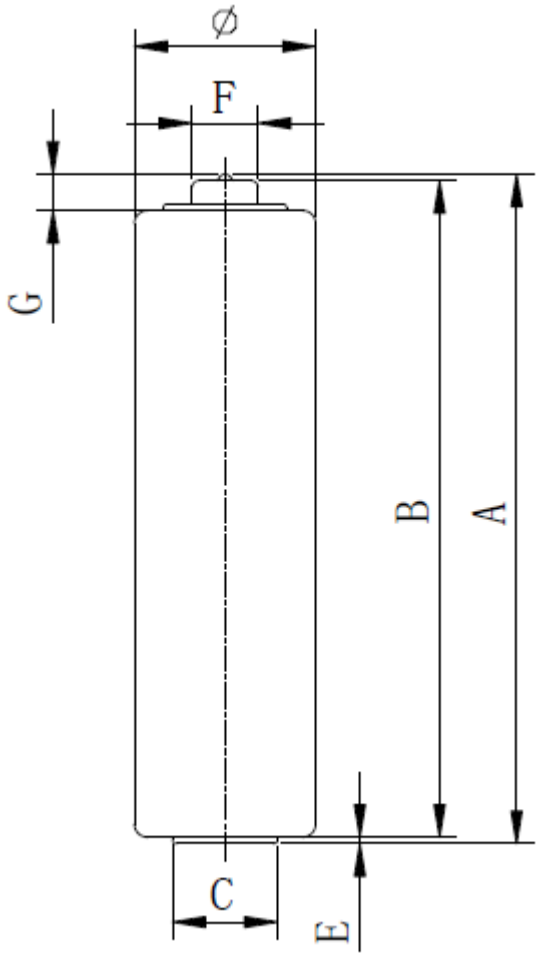
Approved By:
Boris Lin

TEST REPORT
IEC 60086-1 & IEC 60086-2
Primary Batteries
Part 1: General
Part 2: Physical and electrical specifications

Report Number..... :	NCT23027055XI10-1
Date of issue ..... :	2023-07-28
Total number of pages.....	5 pages
Applicant's name ..... :	Shenzhen Tcbest Battery Industry Co.,Ltd.
Address..... :	5/F, Building A6, Yintian Industrial Zone, Xixiang, Bao'an District, Shenzhen, China.
Test specification:	
Standard..... :	IEC 60086-1:2021 & IEC 60086-2:2021
Test procedure..... :	Test Report
Non-standard test method..... :	N/A
Test item description..... :	Alkaline Battery
Trade Mark ..... :	Tcbest
Manufacturer..... :	Same as applicant
Address..... :	Same as applicant
Model/Type reference ..... :	LR6 AA
Ratings..... :	1.5V, 1500mAh

Testing procedure and testing location:	
Testing location/ address…… :	Shenzhen NCT Testing Technology Co., Ltd. A101, 1/F., &2F., B2, Fuqiao 6th Area, Xintian, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
List of Attachments: Appendix 1: 1 pages of Photo Documentation	
Test item particulars ……:	
Classification of installation and use……:	To be defined in final product
Supply connection……:	DC Contact
Weight of Battery ……:	Approx. 23g
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……:	2023-07-05
Date (s) of performance of tests ……:	2023-07-05 to 2023-07-28
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

Construction:

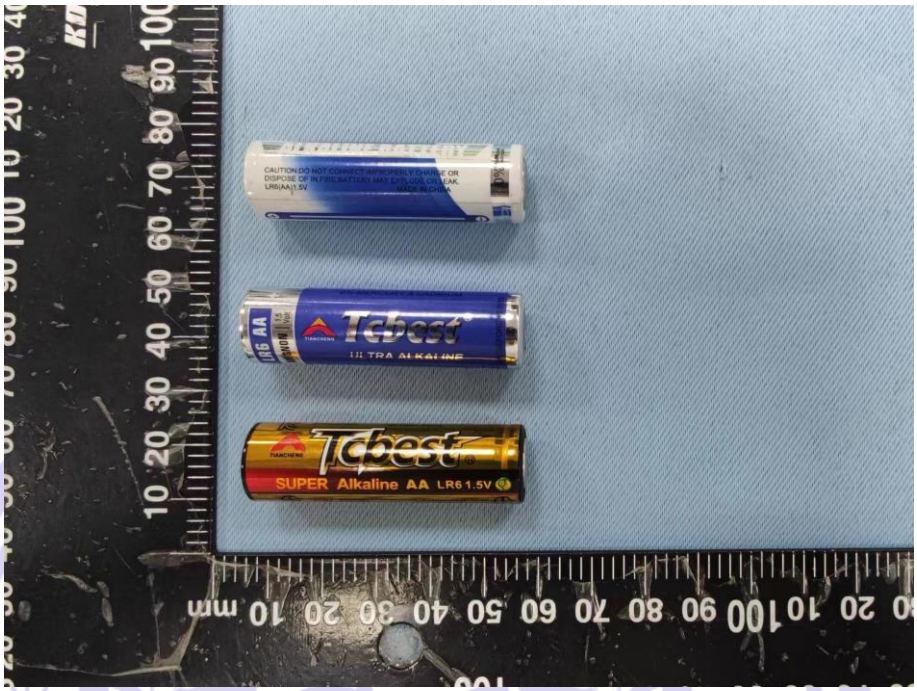


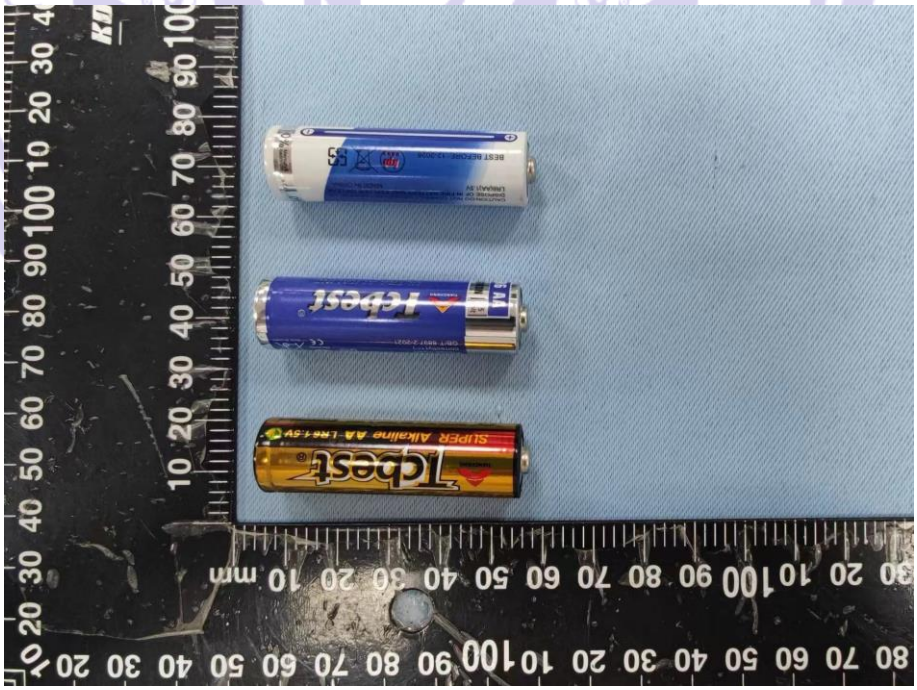
A	Max 50.5mm
Φ	Max 14.5mm

Battery

IEC 60086-1 & IEC 60086-2			
Clause	Requirement + Test	Result - Remark	Verdict
4.1.2 Battery dimensions (mm)	49.5≤Height≤50.5	50.0~50.3	P
	13.7≤Diameter≤14.5	14.0~14.5	P
4.1.3 Terminals	Accordance with clause 6 of IEC 60086-2. Ensure that the batteries make and maintain good electrical contact at all times. Made of materials that provide good electrical conductivity and resistance to corrosion.	Conformity	P
4.1.6 Marking	With the exception of small batteries (see 4.1.6.2), each battery shall be marked with the following information: a) designation, IEC or common; b) expiration of a recommended usage period or year and month or week of manufacture. The year and month or week of manufacture may be in code; c) polarity of the positive (+) terminal; d) nominal voltage; e) name or trade mark of the manufacturer or supplier; f) cautionary advice.	Conformity	P
4.2.1 Discharge performance	Portable lighting (LED), Load: 3.9Ω, Daily Period: 4 min on, 56 min off for 8h per day, End Voltage: 0.9V, MAD: 230 min	MAD: 310 min	P
	Motor/toy, Load: 3.9Ω, Daily Period: 1h, End Voltage: 0.8V, MAD: 5h	MAD: 6.4h	P
	Toy, non-motorized, Load: 250mA, Daily Period: 1h, End Voltage: 0.9V, MAD: 5h	MAD: 6.6h	P
	CD, digital audio, wireless gaming and accessories, Load: 100mA, Daily Period: 1h, End Voltage: 0.9V, MAD: 15h	MAD: 17.2h	P
	Radio /clock /remote control, Load: 50mA, Daily Period: 1 h on, 7 h off for 24 h per day, End Voltage: 1.0V, MAD: 30h	MAD: 35.7h	P
4.2.2 Dimensional stability	The dimensions of batteries shall conform with the relevant specified dimensions as given in IEC 60086-2 and at all times during discharge testing under the standard conditions given in this specification.	Conformity	P
4.2.3 Leakage	When batteries are stored and discharged under the standard conditions given in this specification, no leakage shall occur.	Conformity	P
4.2.4 Open-circuit voltage limits (V)	The maximum open-circuit voltage of batteries shall not exceed the values given in Table 1.	1.60V~1.62V	P

Appendix 1: Photo Documentation

Details of:	Fig.1–Front view of battery LR6 AA
	

Details of:	Fig. 2–Back view of battery LR6 AA
	

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