



中国认可
国际互认
检测
TESTING
CNAS L1786

Institute of Chemical Power Sources of Light Industry
National Battery Inspection & Testing Center

Battery Testing Laboratory, Institute of Electrochemical Power Sources of Light Industry

TEST REPORT

Report ID (2025) LR03W21

Sample: Alkaline Zn/MnO₂ Battery

Trademark: KELIQI

Designation: LR03

Manufacturer: Xinxiang Xinkeli Power Co., Ltd.

Client: Xinxiang Xinkeli Power Co., Ltd.

Test classification: Sample Provided Test

Date of issue: June 20, 2025



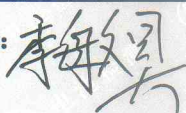
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Test Report

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Sample	Alkaline Zn/MnO ₂ Battery	Trademark	KELIQI
Manufacturer	Xinxiang Xinkeli Power Co., Ltd.	Designation	LR03
Client	Xinxiang Xinkeli Power Co., Ltd.	Date of production	April, 2025
Client address	No.10 Gaoxin Road, Xinxiang, Henan, CHINA		
Explanation	The above information is provided by the client		
Date of receipt	May 16, 2025	Test period	From June 5, 2025 to June 18, 2025
Description of sample	Normal	Test classification	Sample Provided Test
Test environment	Temp 20℃ ± 2℃ RH 15%~75%		
Test instrument	DM-2200A auto-testing system for dry batteries, DM-3000 auto-testing system for dry batteries		
Test basis	1. IEC 60086-1:2021 <i>Primary batteries - Part 1: General</i> 2. IEC 60086-2:2021 <i>Primary batteries - Part 2: Physical and electrical specifications</i>		
Test items	Dimensions, open-circuit voltage, discharge performance, leakage and deformation, marking		
Conclusion	The test results are in accordance with the specifications in IEC 60086-1: 2021 and IEC 60086-2: 2021. Date of issue: June 20, 2025		
Remark	The test results are only applicable for the sample provided by clients.		

Authorized signer:  Verified by: 钱君杰 Chief tester: 

☐ Director ☐ Technical Manager
☐ Vice Director ☐ Quality Manager

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1. Test results

Test item		Specification	unit	Numbers tested	Test result				Verdict Pass/Fail
1	Dimensions								P
Diameter		9.8~10.5	mm	32	10.38~10.40 All qualified				P
Overall height		43.5~44.5	mm	32	44.11~44.26 All qualified				P
2	Open-circuit voltage	1.50~1.68	V	32	1.631~1.638 All qualified				P
3	Discharge performance								P
5.1Ω, 4min/h, 8h/d discharge, end-point voltage 0.9V		Duration ≥130	min	8	197.3 214.9 215.0	192.3 206.5 196.8	211.8 207.1 196.8	Average 205.2	P
5.1Ω, 1h/d discharge, end-point voltage 0.8V		Duration ≥120	min	8	224.2 228.0 223.7	225.3 220.0 228.2	227.2 229.9 228.2	Average 225.8	P
50mA, 1h/12h,24h/d discharge, end-point voltage 0.9V		Duration ≥12	h	8	19.6 19.8 19.6	19.6 19.6 19.7	19.5 19.7 19.7	Average 19.6	P
24Ω, 15s/min,8h/d discharge, end-point voltage 1.0V		Duration ≥14.5	h	8	19.2 18.9 19.2	19.3 18.8 19.2	18.8 19.3 19.2	Average 19.1	P
4	Leakage and deformation								P
5.1Ω, 4min/h, 8h/d discharge, end-point voltage 0.6V		No leakage No deformation	/	8	None leakage None deformation				P
5.1Ω, 1h/d discharge, end-point voltage 0.6V			/	8	None leakage None deformation				P
50mA, 1h/12h,24h/d discharge, end-point voltage 0.6V			/	8	None leakage None deformation				P
24Ω, 15s/min,8h/d discharge, end-point voltage 0.6V			/	8	None leakage None deformation				P

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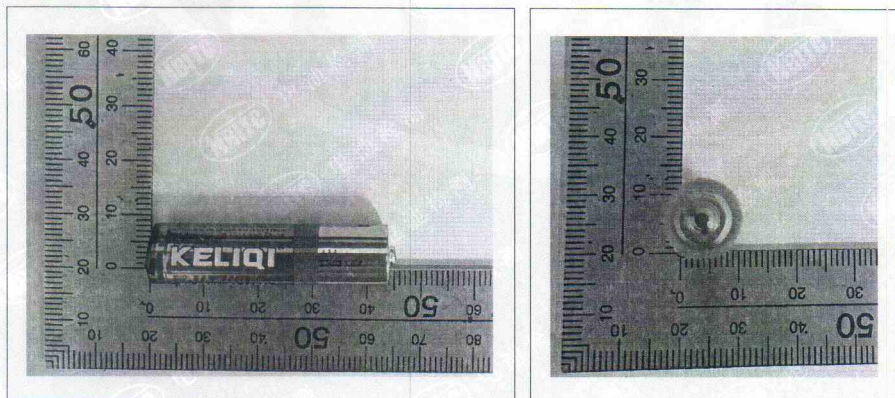
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2. Test result of marking

Test item	Specification	Test result	Verdict Pass/Fail
Marking			P
Marking	a) Designation, IEC or common	Marked	P
	b) Expiration of a recommended usage period or year & month or week of manufacture. The year and month or week of manufacture may be in code	Marked	P
	c) Polarity of the positive (+) terminal	Marked	P
	d) Nominal voltage	Marked	P
	e) Name or trade mark of the manufacturer or supplier	Marked	P
	f) Cautionary advice	Marked	P

3. Picture



—End of Report—