

Test Report

No.: EDG2507300247C00101R

Date: Jan. 28, 2026

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Applicant : Shenzhen Kstar New Energy Company Limited

Address : The 9th Floor, R&D Building, Kstar Industrial Park, Guangming Hi-tech Industrial Zone, 518107 Shenzhen, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA

Sample Name : Battery Pack

Style/Item No. : BC-PACK-17.9-20S-140A

Received Date : Aug. 06, 2025

Test Period : Aug. 06, 2025 ~ Jan. 28, 2026

Test Requested : As requested by the client, according to the Regulation (EU) 2023/1542, to determine the Cadmium, Mercury & Lead Content in the submitted sample.

Test Results : Please refer to next page (s).

Executive Summary:

STANDARD

CONCLUSION

Regulation (EU) 2023/1542 – Heavy Metals in batteries

PASS

Prepared by:

Polly

Huang Fenglan, Polly
Report Engineer

Reviewed by:

Cindy

Zeng Xingji, Cindy
Supervisor

Signed for and on behalf of
EMTEK(Dongguan) Co., Ltd.

Approved by:

Li Wei, Lisa
Authorized signatory
Jan. 28, 2026

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the tests requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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Test Results:

Test Method: 1) to refer to IEC 62321-5: 2013, determine the Cadmium, Lead content by ICP-OES;
2) to refer to IEC 62321-4:2013+A1:2017, determine the Mercury content by ICP-OES.
Calculate the Cadmium, Mercury, Lead in the whole battery:

Test Item	Result (%)	Detection Limit (%)	Limit (%)
	1		
Total Cadmium(Cd)	ND	0.0001	0.0020
Total Mercury(Hg)	ND	0.0001	0.0005
Total Lead(Pb)	ND	0.0001	0.01

- Note: 1. “%” denotes percentage by weight.
2. ND = Not Detected (Less than detection limit)
3. All batteries should be appropriately marked with below symbol – the crossed-out wheeled bin visibly, legibly and indelibly.



4. All batteries containing more than 0.002 % cadmium or more than 0.004 % lead, shall be marked with the chemical symbol for the metal concerned: Cd or Pb. The relevant chemical symbol indicating the heavy metal content shall be printed beneath the symbol (see above) and shall cover an area of at least one-quarter the size of that symbol.

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5. Limits

Column 1 Designation of the substance or group of substances	Column 2 Conditions of restriction
1. Mercury CAS No 7439-97-6 EC No 231-106-7 and its compounds	Batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,0005 % of mercury (expressed as mercury metal) by weight.
2. Cadmium CAS No 7440-43-9 EC No 231-152-8 and its compounds	Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,002 % of cadmium (expressed as cadmium metal) by weight.
3. Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds	1. From 18 August 2024, portable batteries, whether or not incorporated into appliances, shall not contain more than 0,01 % of lead (expressed as lead metal) by weight. 2. The restriction set out in point 1 shall not apply to portable zinc-air button cells until 18 August 2028.

Test Materials List:

Item No.	Description
1	Battery

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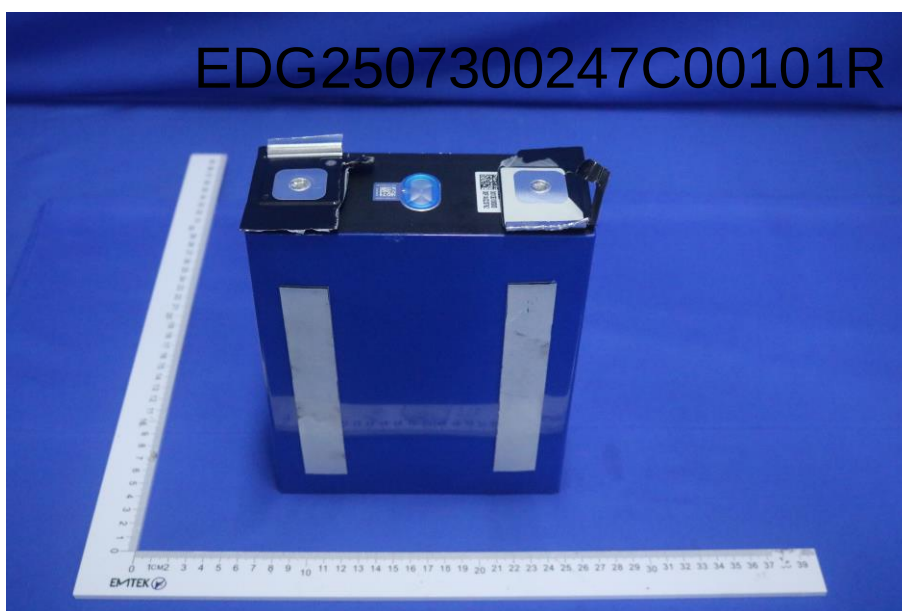
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Sample Photo



TEST FLOWCHART



*** End of Report ***

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