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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 46732-2025

**Technical specification for lithium-ion batteries for household
and similar electrical appliances**

家用和类似用途电器用锂离子电池技术规范

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Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
5.Test conditions	8
7.Markings, instructions, and product specifications	14
19 References	20

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China National Light Industry Council. This document is under the jurisdiction of the National Technical Committee on Standardization of Household Appliances (SAC/TC46). This document was drafted by: China Household Electric Appliance Research Institute, Guangdong Baiyun Cleaning Co., Ltd., and Taiding New Energy (Zhejiang) Co., Ltd. Xiamen Xineng'an Technology Co., Ltd., Jiangsu Eurotech Energy Technology Co., Ltd., Ecovacs Robotics Co., Ltd., and Fansonni (China) Investment Limited Company, China Quality Certification Center Co., Ltd., Suzhou UL Meihua Certification Co., Ltd., Xiaomi Communications Technology Co., Ltd., Kao Stellar IoT Technology Co., Ltd., Ningbo Deli Tools Co., Ltd., China Household Electric Appliance Research Institute (Beijing) Testing and Certification Co., Ltd., and Weike Technology Co., Ltd. Limited Liability Company, Shenzhen Shentong Tianxia Technology Co., Ltd., Ningbo Ruika Electric Appliance Co., Ltd., China Electronics Technology Standardization Institute, Shanghai Huijue Technology Group Co., Ltd., Shenzhen Nuoce Testing Technology Co., Ltd., Qingdao Economic and Technological Development Zone Haier Water Heater Co., Ltd., Jiangsu Rixin Electric Technology Co., Ltd., Zhejiang Yuefuren Intelligent Technology Co., Ltd., Hefei Huayu Zhihang Power Energy Co., Ltd., Anhui Lingyu New Energy Technology Co., Ltd., Shenzhen Weiteli Power Co., Ltd., Guangdong Microelectronics New Energy Co., Ltd., Aerospace Lithium Battery Technology (Jiangsu) Limited Liability Company, Meishile (Guangdong) New Energy Technology Co., Ltd., Shenzhen Carcool Technology Co., Ltd., Shenzhen Herunda Technology Co., Ltd. The company, China National Academy of Quality Inspection and Testing. The main drafters of this document are. Qu Zongfeng, Yao Qingmei, Cai Baiqun,

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1 Scope

GB/T 46732-2025 is the Chinese national standard covering the lithium cell inside a vacuum cleaner, a shaver or a cordless tool - the capacity and cycle life declared, the protection circuit, the abuse tests of overcharge, short circuit and crush, and the marking and transport requirements. First edition, in force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026.

This document specifies the technical requirements, markings, instructions, product specifications, and other requirements for lithium-ion batteries and battery packs used in household and similar electrical appliances. The inspection rules describe the corresponding test conditions and test methods. This document applies to lithium-ion batteries and battery packs (hereinafter referred to as "best practices") used in household and similar electrical appliances (hereinafter referred to as "household appliances"). The design, production, quality inspection and delivery of "batteries" and "battery packs".

Note. The battery pack requirements and test methods mentioned in this document are for battery packs with independent protection circuits. For battery packs with protection circuits integrated into the charging circuit... The test methods for verifying the charging safety of battery packs in appliances or household appliances (including their accessories) and the entire household appliance are shown in Appendix A.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 4208 Degrees of protection provided by enclosures (IP code)

GB/T 17626.2 Electromagnetic compatibility testing and measurement techniques - Electrostatic discharge immunity test

GB 38031-2025 Safety requirements for power batteries for electric vehicles

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 lithium-ion battery A rechargeable device that relies on the movement of lithium ions between the positive and negative electrodes to achieve the interconversion of chemical energy and electrical energy.

Note. This device includes electrodes, diaphragms, electrolytes, containers, and terminals.
[Source: GB 31241-2022, 3.1, with modifications]

3.2 lithium-ion battery pack An integrated unit consisting of one or more batteries, protection circuits, etc., which is directly used as a source of electrical energy. Note

1.The protection circuit may be independent or integrated into the charger or household appliance (including its accessories). Note

2.The functions of the protection circuit may include current protection, voltage protection, temperature protection, etc. Note

3.Battery packs with a complete casing have a certain level of protection. Battery packs integrated into chargers or household appliances (including their accessories) are subject to the protection of the receiver. It has an enclosure for protection, but may not have a separate enclosure or may use a packaging structure with performance lower than that of the appliance enclosure. Note

4.Lithium-ion battery packs may also contain components or materials such as encapsulation materials, connectors, and protection devices.

3.3 Rated capacity The capacity of the battery or battery pack as specified by the manufacturer.