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

GB/T 46736-2025

**Lead-acid batteries for propulsion power of lightweight vehicles
- General requirements and methods of test**

轻型车辆动力车用铅酸蓄电池 一般要求和试验方法

(English Translation)

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Foreword

This document conforms to GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting is scheduled.

This document is modified to adopt IEC 63193:2020 "General requirements and test methods for lead-acid batteries for powering light vehicles".

Compared with IEC 63193:2020, this document has undergone many structural adjustments. A comparison table of the structural numbering changes between the two documents is provided.

See Appendix A.

This document differs significantly from IEC 63193:2020. The relevant clauses are indicated in vertical margins.

Single lines (|) are indicated. A summary of these technical differences and their causes can be found in Appendix B.

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 Electrical Equipment Industry Association.

This document is under the jurisdiction of the National Lead-acid Battery Standardization Technical Committee (SAC/TC 69).

1 Scope

This document specifies the technical requirements, test methods, inspection rules, marking, packaging, and transportation of lead-acid batteries for light-duty vehicle power systems.

Storage and use.

This document applies to two-wheeled electric motorcycles (electric motorcycles, electric mopeds) that use lead-acid batteries as their primary power source, and electric tricycles.

Wheeled vehicles (electric rickshaws and delivery vehicles) as well as golf carts, sightseeing vehicles and other similar light multi-purpose vehicles.

This document does not apply to lead-acid batteries and battery packs used for the following purposes. starting, traction, stationary, general valve-regulated, and electric wheel.

Chairs and similar personal assistive vehicles.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below.

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 2900.41 Electrical terminology - Primary and secondary batteries [GB/T 2900.41-2008, IEC 60050(482).2003, IDT] GB/T 2900.83 Electrical Engineering Terminology. Electrical and Magnetic Devices (GB/T 2900.83-2008, IEC 60050-151:2001, IDT) GB/T 2900.99 Reliability of Electrical Engineering Terminology (GB/T 2900.99-2016, IEC 60050-192:2015, IDT)

3.1 Terms and Definitions

The terms and definitions defined in GB/T 2900.41, GB/T 2900.83 and GB/T 2900.99, as well as the following terms and definitions, apply to this document.

3.1.1

actual capacity

Under specified conditions, the amount of electricity that a battery can actually release is determined by discharging it at a specified discharge current after it has been fully charged.

Note: Expressed in ampere-hours (A·h).

3.1.2

Rated capacity

The capacity value of a battery as measured under specified conditions and declared by the manufacturer.

Note: Expressed in ampere-hours (A·h).

3.1.3

Mass energy density

The energy stored per unit mass of a battery.

3.1.4

Capacity at 0°C

The actual amount of electricity that a battery can release under 0 °C conditions.

Note: Expressed in ampere-hours (A·h).