



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

GB/T 5008.3-2023

**Lead-acid starter batteries - Part 3: Kinds of products and
specifications and dimensions and marking of terminals for
heavy vehicles**

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Foreword

This document was drafted in accordance with the rules provided in GB/T 1.1-2020 Directives

for Standardization - Part 1: Rules for the Structure and Drafting of Standardizing Documents.

This document is Part 3 of GB/T 5008 Lead-acid Starter Batteries. GB/T 5008 has issued the

following parts:

---Part 1: Technical Conditions and Methods of Test;

---Part 2: Dimensions of Batteries and Dimensions and Marking of Terminals;

---Part 3: Kinds of Products and Specifications and Dimensions and Marking of Terminals for Heavy Vehicles.

This document modifies and adopts IEC 60095-4:2021 Lead-acid Starter Batteries - Part 4: Dimensions of Batteries for Heavy Vehicles.

In comparison with IEC 60095-4:2021, there are many structural adjustments. A comparison of

structural No. changes between the two documents is shown in Appendix A.

In comparison with IEC 60095-4:2021, there are many technical differences. The clauses involved are marked with a single vertical line (?) in the outer margin. A list of these

technical

differences and their causes is shown in Appendix B.

This document makes the following editorial modifications:

---In order to coordinate with the existing standards, the title of the Standard is modified into Lead-acid Starter Batteries - Part 3: Kinds of Products and Specifications and Dimensions and Marking of Terminals for Heavy Vehicles;

---IEC 61429 and ISO 7000 are deleted from the Bibliography.

Please be noted that certain content of this document may involve patents. The institution issuing this document does not undertake the responsibility of identifying these patents.

This document was proposed by China Electrical Equipment Industry Association.

This document shall be under the jurisdiction of National Technical Committee on Lead Acid Batteries of Standardization Administration of China (SAC/TC 69).

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Leoch Battery Technology Co., Ltd.; Jiangxi HEROU Power Supply Technology Co., Ltd.; Zhejiang Narada Power Source Co., Ltd.; Zhejiang Jujiang Power Manufacturing Co., Ltd.; Guangdong Aokly Group Co., Ltd.; Ningbo Donghai Storage Battery Co., Ltd.; Zhushan
Lead-acid Starter Batteries - Part 3: Kinds of Products and
Specifications and Dimensions and Marking of Terminals for
Heavy Vehicles

1 Scope

This document specifies the dimensions and model designation, terminal polarity marking, battery model and classification, and battery terminal dimensions of lead-acid starter batteries

for heavy vehicles (hereinafter referred to as the batteries).

This document is applicable to vented (liquid-rich) batteries and valve-controlled (with gas composite function) batteries with a rated voltage of 12 V, and used for the starting, ignition

and illumination of various types of heavy-duty vehicles, tractors and other internal combustion

engines.

This document does not apply to batteries used for other purposes, for example, batteries for

starting heavy vehicles of railway internal combustion engines.

2 Normative References

The contents of the following documents constitute indispensable clauses of this document through the normative references in the text. In terms of references with a specified date, only

versions with a specified date are applicable to this document. In terms of references without a

specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 2900.41 Electrotechnical Terminology - Primary and Secondary Cells and Batteries (GB/T 2900.41-2008, IEC 60050-482:2003, IDT)

GB/T 5008.1 Lead-acid Starter Batteries - Part 1: Technical Conditions and Methods of Test (GB/T 5008.1-2023, IEC 60095-1:2018, MOD)

GB/T 5008.2 Lead-acid Starter Batteries - Part 2: Dimensions of Batteries and Dimensions and

Marking of Terminals (GB/T 5008.2-2023, IEC 60095-2:2021, MOD)

3 Terms and Definitions

The terms and definitions defined in GB/T 2900.41 are applicable to this document.

4.1 Marking of Batteries

The marking of the batteries shall comply with the stipulations of GB/T 5008.1.

4.2 Terminal Polarity Marking of Batteries

The terminal polarity marking of the batteries shall comply with the stipulations of GB/T 5008.2.

4.3 Marking of Battery Slot and Cover Materials

The marking of battery slot and cover materials shall comply with the stipulations of GB/T 5008.1.

4.4 Dimensions and Structure of Batteries

The dimensions of the batteries are expressed in (mm). In this document, "Figure" refers to schematic diagram, and there are no requirements for the shape of the battery slot and cover,

the handle, ribs, lower fixation shape and exhaust hole position.

4.5 Terminal Dimensions of Batteries

The terminal dimensions of the batteries shall comply with the stipulations of GB/T 5008.2.

4.6 Suggestions for New Vehicle Accessories

For future new developments of heavy-duty vehicles, it is advisable to use only the battery models in this document. The battery models are classified in accordance with Europe, North

America and East Asia.

5.1 Overview

This product is applicable to batteries used in Europe. The series is codenamed "EU". Four types are included in the series.

5.2 Battery Fixation

The battery is fixed through the upper fixation.

5.3 Terminal Configuration and Polarity

The transverse arrangement and polarity position of the battery terminals shall comply with the

stipulations of Figure 1. The longitudinal arrangement and polarity position of the battery

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