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

GB/T 43346-2023

Lead-acid batteries for start-stop - Technical conditions

起停用铅酸蓄电池 技术条件

(English Translation)

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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:

This document is modified to adopt IEC 60095-6:2019 "Lead-acid Batteries for Starting Part 6: Microcirculation Application":

Compared with IEC 60095-6:2019, this document has many structural adjustments: A comparison of the structural number changes between the two documents is at a glance:

See Appendix A for the table:

Compared with IEC 60095-6:2019, there are many technical differences between this document and the clauses involved in the outer margins:

Straight single lines (|) are marked: A list of these technical differences and their causes is provided in Appendix B:

The following editorial changes have been made to this document:

---Change the name of the standard to "Technical Conditions for Starting and Stopping Lead-acid Batteries":

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

1 Scope

This document specifies the technical requirements, inspection rules, marking, packaging, transportation and storage of lead-acid batteries used in automobile start-stop systems: It describes Corresponding test methods:

This document is applicable to the starting, ignition, lighting, and idling state of internal combustion engines of vehicles equipped with start-stop systems with a rated voltage of 12V:

Vented lead-acid batteries and valve-regulated lead-acid batteries (hereinafter referred to as batteries) for power supply:

This document does not apply to batteries for starting railway internal combustion engines:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

GB/T 2900.41 Electrical terminology primary cells and accumulators (GB/T 2900.41-2008, IEC 60050-482:2003, IDT) GB/T 5008.1 Lead-acid batteries for starting use Part 1: Technical conditions and test methods (GB/T 5008.1-2023, IEC 60095-1:2018,MOD) GB/T 5008.2 Lead-acid batteries for starting use Part 2: Product variety specifications and terminal dimensions and markings (GB/T 5008.2-2023,IEC 60095-2:2021,MOD)

3 Terms, definitions, symbols and abbreviations

3.1

Terms and definitions the terms and definitions defined in GB/T 2900.41 and the following apply to this document:

3.1.1

Flooded lead-acid battery Vented lead-acid battery There are one or more exhaust devices on the battery cover that can precipitate gas products, and the acid mist is filtered for starting and stopping lead-acid batteries with a non-direct discharge structure:

Note 1: Referred to as flooded battery or vented battery:

Note 2: Flooded batteries that use additional special designs to improve cycle capacity are called enhanced flooded batteries:

3.1.2

valve regulated lead-acid battery valve regulated lead-acid battery it is equipped with an exhaust valve to allow gas to escape when the internal pressure of the battery exceeds a predetermined value to start and stop the lead-acid battery:

Note 1: Referred to as valve-regulated battery:

Note 2: Valve-regulated lead-acid batteries whose separators use glass fiber to absorb electrolyte are called absorbent glass fiber batteries:

Note 3: This kind of battery or battery pack cannot add water or electrolyte under normal circumstances: