

ICS 29.220.01

CCS T 47



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

GB/T 47283-2026

**Specification for the defect monitoring and analysis of traction
batteries in battery swap scenarios**

换电场景下动力蓄电池缺陷监测与分析规范

Issued on: February 27, 2026

Implemented on: June 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Abbreviations	2
5.Defect Monitoring and Analysis Procedures	2
6.Defect Monitoring	3
6.1 Information Collection	3
6.2 Identification of Defective Power Batteries	8
6.3 Analysis of the Degree of Harm and Impact	8
7 Defect Analysis	9
7.1 Overview	9
7.2 Operation Cycle Information Analysis	9
7.3 OTA Upgrade Information Analysis	11
7.4 In-depth analysis of accident information	12
7.5 Defect Engineering Analysis Test	12
18 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 and is under the jurisdiction of the National Technical Committee on Standardization of Product Defects and Safety Management (SAC/TC463). This document was drafted by: the Defective Product Recall Technology Center of the State Administration for Market Regulation and China Automotive Engineering Research Institute Co., Ltd. Company, CATL (Contemporary Amperex Technology Co., Limited), Beijing CATARC Technology Co., Ltd., CATL Electric Service Technology Co., Ltd., Shanghai Qiyuan Chip Power Technology Co., Ltd., Zhengzhou Shenlan Power Technology Co., Ltd., Tianjin Fire Research Institute of the Ministry of Emergency Management, SAIC-GM-Wuling Automobile Co., Ltd. Limited Liability Company, Zhangjiagang Qingyan Testing Technology Co., Ltd., China Quality Certification Center Co., Ltd., China Automotive Technology & Research Institute New

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1 Scope

GB/T 47283-2026 is the Chinese national standard covering watching batteries that pass through a swap station - every pack returns to a place where it can be measured, charged under control and inspected, which makes the swap network the best fault detection system a battery fleet can have. First edition, in force since 1 June 2026, and it belongs with the e-motorcycle swapping standard GB/T 47352-2026. It was issued on 27 February 2026 and has been in force since 1 June 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document establishes the defect monitoring and analysis procedure for power batteries in battery swapping scenarios, and specifies the defect monitoring, defect analysis, and defect research procedures. The content includes judgments and recalls. This document applies to the power batteries used in battery-swapping electric vehicles. For power battery defect monitoring and analysis in non-battery-swapping scenarios, refer to... use.

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 19596-2017 Electric Vehicle Terminology

GB/T 32895-2025 Communication Protocol for Electric Vehicle Quick-Swap Battery Boxes

GB/T 32960.3-2025 Technical Specifications for Remote Service and Management Systems for Electric Vehicles Part

3 Terms and Definitions

The terms and definitions defined in GB/T 19596-2017, as well as the following terms and definitions, apply to this document.

3.1 Battery swap The process of quickly replacing the power battery of an electric vehicle using a special device or with manual assistance to replenish its electrical energy.

Note. A complete battery swapping process generally takes no more than 5 minutes.

[Source: GB/T 40032-2021, 3.1]

3.2 Defect The common occurrence of non-compliance with national and industry standards for ensuring personal and property safety among vehicles of the same batch, model, or category. In cases of unsafe circumstances or other unreasonable dangers that endanger personal safety or property. [Source: GB/T 45415-2025, 3.3]

3.3 Defect analysis Technical analysis activities conducted by producers, recall authorities, or recall technical institutions when products are found to be defective. [Source: GB/T 45415-2025, 3.4]