



**中华人民共和国国家标准**  
**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA**

**GB/T 36276-2023**  
Replaces GB/T 36276-2018

**Lithium Ion Battery for Electrical Energy Storage**  
**电力储能用锂离子电池**

*(English Translation)*

Issued on 2023-12-28

Implemented on 2024-07-01

Jointly Issued by  
State Administration for Market Regulation of the People's Republic of China &  
Standardization Administration of the People's Republic of China

## CONTENTS

Foreword .....	I
1 Scope .....	1
2 Normative References .....	1
3 Terms, Definitions and Symbols .....	1
4 Code Designation .....	2
5 Technical Requirements .....	4
6 Test Methods .....	12
7 Inspection Rules .....	47
8 Marking, Packaging, Transportation and Storage .....	56
Annex A (Normative) Battery Working Parameters .....	57
Annex B (Informative) Battery Specification Parameter Tables .....	61

www.chinaautoregs.com

# Lithium Ion Battery for Electrical Energy Storage

## 1 SCOPE

This document specifies the requirements for appearance, dimensions and mass, electrical performance, environmental adaptability, endurance and safety performance of the lithium-ion battery for electrical energy storage (hereinafter referred to as "lithium-ion battery"), describes the corresponding test methods, and specifies the code designation, normal working environment, inspection rules, marking, packaging, transportation and storage, etc.

This document is applicable to the design, manufacturing, testing, inspection, operation, maintenance and servicing of the lithium-ion battery for electrical energy storage.

## 2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB/T 191	Packaging - Pictorial marking for handling of goods
GB/T 2828.1	Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection
GB/T 4857 (all parts)	Packaging—Basic tests for transport packages
GB/T 5398	Test methods for large transport packages
GB/T 16471	Dimensional and weight constraints for transport package
DL/T 2528	Basic terminology of electrical energy storage

## 3 TERMS, DEFINITIONS AND SYMBOLS

### 3.1 Terms and Definitions

For the purpose of this document, the terms and definitions established in DL/T 2528 and the following apply.

#### 3.1.1 rated power charging-discharging cycles

The guaranteed number of cycles when the charging/discharging energy is attenuated to the rated value, when the battery is subjected to cyclic charging/discharging at the rated power under the specified conditions

#### 3.1.2 nominal voltage of battery

The marking or identification of the voltage of a battery

#### 3.1.3 initialized charging

Process in which the battery is discharged until the end-of-discharge criterion is met and then charged until the end-of-charge criterion is met, under the specified conditions

#### 3.1.4 initialized discharging

Process in which the battery is charged until the end-of-charge criterion is met and then discharged until the end-of-discharge criterion is met, under the specified conditions

#### 3.1.5 rate charging and discharging

Process in which the battery is charged/discharged at a power higher than the rated power under the specified conditions

#### 3.1.6 shell

A packaging component used to protect the materials and parts in the cell from direct contact with the external environment



# ChinaAutoRegs

中国汽车标准译文库

## **The following pages are left blank intentionally.**

- 现成译文，到款即发。
  - 下单前可任取样页验证译文质量。
  - 免费提供正规普通增值税数电发票。
  - 请联系手机/微信: 13306496964/Email: [standardtrans@foxmail.com](mailto:standardtrans@foxmail.com) 获取完整译文。
  - 本英文译本为纯人工专业精翻版本，保证语法术语准确率和专业度！
  - 专业源于专注|ChinaAutoRegs 始终专注于汽车标准翻译领域！
  - 「中国汽车标准译文库」已收录上千个现行汽车国家标准和行业标准的英文版译本，涵盖传统燃油车、新能源汽车和摩托车标准化体系！独家打造千万级汽车专业术语库和记忆库。
- 
- ◆ The English Translation of this document (GB, GB/T, QC/T, CNCA, CQC, CAV, etc.) is readily available, and delivered immediately upon payment.
  - ◆ You may request for sample pages to your preference before placing an order.
  - ◆ Please contact [standardtrans@foxmail.com](mailto:standardtrans@foxmail.com) for the complete PDF version in English.
  - ◆ Almost all of Chinese automotive/automobile standards, regulations and norms in effect have been included in our well-established database, providing one-stop, up-to-date, efficient and professional solution.
-