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

GB/T 44026-2024

**Technical specification for containerised lithium-ion battery
energy storage systems**

预制舱式锂离子电池储能系统技术规范

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Foreword

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Battery Energy Storage System

1 Scope

GB/T 44026-2024 is the Chinese technical specification for containerised lithium-ion battery energy storage systems: the prefabricated cabin, usually the size of a shipping container, that arrives on a lorry with the racks, the battery management, the thermal management, the fire protection and the power conversion already inside. Almost all grid storage in China is now built this way, because a factory-built container is cheaper, faster and more repeatable than an assembled building, and the whole safety case travels with the unit rather than being made on site. The standard sets the classification and coding, the normal service conditions, the requirements on the appearance, the dimensions and the degree of protection of the enclosure, the functional requirements, the performance requirements, and the requirements on the equipment and components within, together with the test methods, the inspection rules and the marking, packaging, transport and storage. For a system integrator, a container builder or a utility procuring storage in China, this is the acceptance text.

This document specifies the appearance, dimensions and protection of the prefabricated cabin lithium-ion battery energy storage system (hereinafter referred to as the "prefabricated cabin energy storage system"): The levels, equipment and components, functional requirements and performance requirements are described, and the corresponding test methods are specified, including classification and coding, normal working conditions, inspection rules, marking, packaging, transportation and storage, etc: This document applies to the design of prefabricated cabin energy storage systems with a rated power of not less than 100kW and a rated energy of not less than:200kW·h: Design, manufacture, test, inspection, operation, maintenance and overhaul:

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document: For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document: GB/T 1094:

1 Power transformers Part 1: General GB/T 1094:

11 Power transformers Part 11: Dry-type transformers GB/T 2423:

4 Environmental testing for electric and electronic products Part 2: Test method Test Db: Cyclic damp heat (12h 12 cycles) GB/T 3836: