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**Technical specification for flywheel energy storage system
used for electrical energy storage system**

电力储能用飞轮储能系统技术规范

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Technical Specifications for Flywheel Energy Storage Systems for Power Energy Storage

1 Scope

This document specifies the overall requirements, system architecture, normal operation, and operation of flywheel energy storage systems for power energy storage (hereinafter referred to as "flywheel energy storage systems").

The operating environment conditions, system functional requirements, system performance requirements and technical requirements of the flywheel energy storage auxiliary system are described, and the system test methods are described.

This document is applicable to the on-site test, inspection, operation and maintenance of flywheel energy storage systems with a rated discharge power of 200 kW and above and connected to the AC grid. Maintenance and repair.

2 Normative references

GB/T 12325

GB/T 12326

GB/T 14549

GB/T 15543

GB/T 15945

GB/T 20626.1

GB/T 20840.2

GB/T 20840.3

GB/T 24337

GB/T 29481

GB/T 36548-2024

GB/T 44934

IEC 60870

3 Terms and definitions

The terms and definitions defined in DL/T 2528-2022, GB/T 44934 and the following apply to this document.

3.1 Flywheel energy storage system

It consists of one or more flywheel energy storage units, flywheel energy storage converters, flywheel energy storage auxiliary systems and flywheel energy storage management systems.

A combination of equipment that converts kinetic energy into electrical energy.

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