

# Design standards for lithium battery energy storage products



## Overview

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However, storing and managing energy—especially lithium-ion batteries (LIBs)—presents unique fire and life safety challenges. To mitigate risks, a range of codes and standards guide the design, installation, operation, and testing of energy storage systems. Lithium-ion Battery Storage Technical Specifications 1 Lithium-Ion Battery Energy Storage System Technical Specifications

**DISCLAIMER** These technical specifications are intended as a resource only. It is the responsibility of government staff to ensure all procurements follow all applicable federal regulations of utility-scale battery energy storage systems. This checklist can support project development. Text that provides options for the design of uninterruptible power supplies and other battery backup systems.

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### A Comprehensive Guide: U.S. Codes and Standards for Energy ...

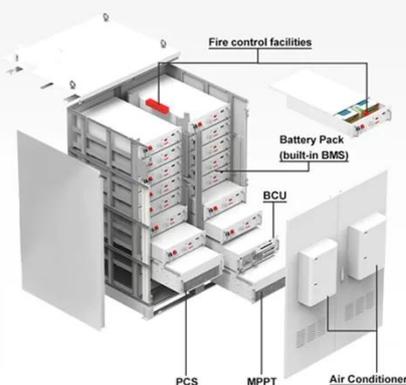
1.1 The test methodology in this standard determines the capability of a battery technology to undergo thermal runaway and then evaluates the fire and explosion hazard characteristics of those battery energy storage ...

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### Codes & Standards Draft - Energy Storage Safety

Will provide a recommended practice for installation design, storage, installation, ventilation, instrumentation, charging, maintenance, capacity testing, and replacement of Li-ion (Lithium-ion) batteries.

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### U.S. Codes and Standards for Battery Energy Storage Systems

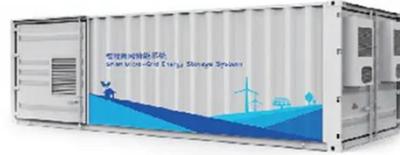
U.S. Codes and Standards for Battery Energy Storage Systems tallations of utility-scale battery energy storage systems. This overview highlights the mo t impactful documents and is not intended to be exhaustive. Many ...

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## Microsoft Word

Section 2 will summarize the key codes and standards affecting the design and installation of battery energy storage technologies. Section 3 will provide an overview of code development cycles and why codes are ...

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## Battery and Energy Storage System Codes and Standards: What You ...

However, storing and managing energy--especially lithium-ion batteries (LIBs)--presents unique fire and life safety challenges. To mitigate risks, a range of codes and standards guide the design, installation, ...

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## Customizable Technical Specifications for Lithium-Ion Battery ...

Identify requirements for the technology, project, and contractors / vendors in request for proposal (RFP) documents. Provide language that can be enshrined in agreements/contracts with the contractor and ...

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## Summary: ESS Standards

As part of UL 9540, lithium-ion based ESS are required to meet the standards



of UL 1973 for battery systems and UL 1642 for lithium batteries. Additionally, all utility interactive ESS are required to be listed and labeled ...

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## Lithium-ion Battery Storage Technical Specifications

The BESS and all associated components must comply with all codes and standards relevant to the operation and installation of energy storage equipment. All installed equipment must be tested and approved by a ...



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LIQUID/AIR COOLING

PROTECTION IP54/IP55

PCS EMS

BATTERY /6000 CYCLES

## Your Guide to Battery Energy Storage Regulatory Compliance

As the battery energy storage market evolves, understanding the regulatory landscape is critical for manufacturers and stakeholders. This guide offers insights into compliance strategies, safety standards and ...

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