

## SolarTech Power Solutions

# Safe distance of energy storage equipment



## Overview

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What are the safety requirements for electrical energy storage systems?

Electrical energy storage (EES) systems - Part 5-3. Safety requirements for electrochemical based EES systems considering initially non-anticipated modifications, partial replacement, changing application, relocation and loading reused battery.

What is a UL standard for energy storage safety?

Far-reaching standard for energy storage safety, setting out a safety analysis approach to assess H&S risks and enable determination of separation distances, ventilation requirements and fire protection strategies. References other UL standards such as UL 1973, as well as ASME codes for piping (B31) and pressure vessels (B & PV).

What are international standards for energy storage?

Internationally developed standards are often mirrored by the BSI in the UK and so become UK standards. They form the bulk of the technical standards related to energy storage. They are developed through relevant working groups in organisations such as the IEC, CENELEC, or ISO and present international consensus on what standards should apply.

What are the standards for battery energy storage systems (BESS)?

As the industry for battery energy storage systems (BESS) has grown, a broad range of H&S related standards have been developed. There are national and international standards, those adopted by the British Standards Institution (BSI) or published by International Electrotechnical Commission (IEC), CENELEC, ISO, etc.

What are electrical energy storage (EES) parameters & testing methods?

Electrical energy storage (EES) systems. Part 2-1: Unit parameters and testing methods - General specification. This formally defines EESS parameters such

as active and reactive power, round trip efficiency, expected service life etc., and formally sets out how to verify these parameters in testing.

What safety considerations should you consider when installing a battery?

Specific safety considerations include: Equipment certification – having battery components tested under standards such as IEC 62619 and UL9540A3 is a key step in ensuring the robustness of battery installations.

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