

## A-Core Container

# Australian Energy Storage Battery Standards



## Overview

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In Australia and New Zealand, standards such as AS/NZS 5139-2019 and AS/NZS 60335.1:2022 set forth the safety guidelines for battery systems used with power conversion equipment and household appliances, respectively. Can a battery energy storage system be installed in Australia?

Any upgrades to existing site electrical infrastructure required to install proposed battery energy storage system. All components of the system should be suitable for installation under Australian legislation and Standards.

Is there an Australian standard for large energy storage batteries?

A major issue identified by ESV is the absence of an Australian Standard for large energy storage battery facilities. Efforts are being made to expedite the creation and subsequent release of an appropriate standard, however as an interim measure, technical guidance will represent an iterative update of the existing CEC guidance.

How do I qualify for a battery energy storage system?

To qualify, systems must meet key criteria, including: Use of Clean Energy Council (CEC)-approved products. Installation by CEC-accredited professionals. Compliance with national safety standards such as AS/NZS 5139 Battery Energy Storage System Installation Requirements and emerging specifications like TS 5398.

What are the safety guidelines for battery systems in Australia and New Zealand?

In Australia and New Zealand, standards such as AS/NZS 5139-2019 and AS/NZS 60335.1:2022 set forth the safety guidelines for battery systems used with power conversion equipment and household appliances, respectively.

How should battery energy storage system specifications be based on technical specifications?

Battery energy storage system specifications should be based on technical specification as stated in the manufacturer documentation. Compare site energy generation (if applicable), and energy usage patterns to show the impact of the battery energy storage system on customer energy usage. The impact may include but is not limited to:.

What is a battery energy storage system?

Battery energy storage system (BESS): Consists of Power Conversion Equipment (PCE), battery system(s) and isolation and protection devices.

Battery system: System comprising one or more cells, modules or batteries.

Pre-assembled battery system: System comprising one or more cells, modules or battery systems, and/or auxiliary equipment.

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