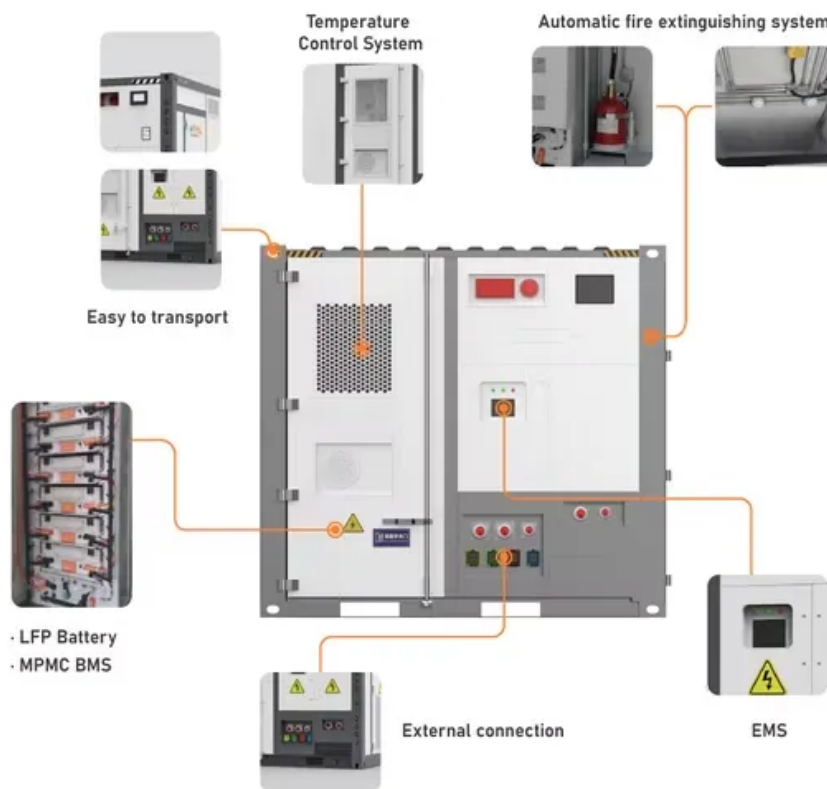


# The latest charging standards for energy storage projects





## Overview

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Can EV charging equipment be integrated into a building energy management system?

In order to enable customer-friendly integration of EV charging equipment into a building energy management system, it is key that other standards, such as IEC 63110, build on the energy flexibility abstractions defined in the CEM standard. This is seen as the de facto implementation of the standard.

Why do EV charging stations need technical standards?

This is needed for the EV and charging station to agree on a charging schedule that serves the needs of the EV driver and the electricity grid. Technical standards enable such communication. All European public charging stations currently operate using the IEC 61851:2019 standard to connect to vehicles.

What is the new EV Charging Specification?

The new technical specification provides guidance that promotes safety, consistent deployment, and reliable operation of EV charging infrastructure to help make it accessible, convenient, and seamless for all users.

How is the charging capacity managed?

At the moment, the charging capacity for individual vehicles is managed via the basic charging standard IEC 61851, which allows a charge point to set a maximum current level for charging. This standard only transmits the real-time limit at a given moment and does not allow communication to schedule loads at other times.

How can smart charging improve grid stability?

Research in this area should focus on developing smart charging algorithms, demand-response protocols, and integration of distributed energy resources to ensure grid stability and enable further EV penetration, ultimately preventing



outages and optimizing grid operations.

What are the technical standards for charging a car?

Technical standards enable such communication. All European public charging stations currently operate using the IEC 61851:2019 standard to connect to vehicles. This standard ensures safe charging, minimising risks such as electric shocks or overheating.



## The latest charging standards for energy storage projects

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As a result, energy storage negotiations will involve the consideration of new terminology (charging capacity, charging duration, storage capacity) and new issues (how ...



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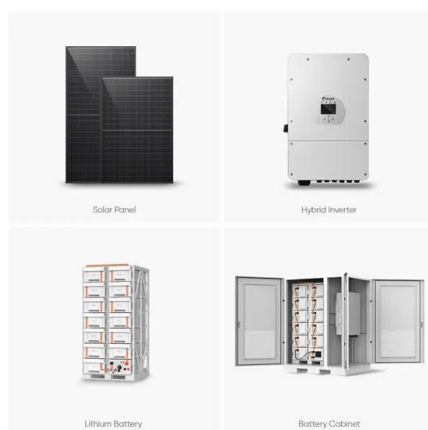
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