

The function of the battery module of the solar container communication station





Overview

What is a battery energy storage system?

For this guide, we focus on lithium-based systems, which dominate over 90% of the market. In more detail, let's look at the critical components of a battery energy storage system (BESS). The battery is a crucial component within the BESS; it stores the energy ready to be dispatched when needed.

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In more detail, let's look at the critical components of a battery energy storage system (BESS). The battery is a crucial component within the BESS; it stores the energy ready to be dispatched when needed. A battery contains lithium cells arranged in series and parallel to form modules, which stack into racks.

Why is battery energy storage important?

Battery energy storage plays an essential role in today's energy mix. As well as commercial and industrial applications, battery energy storage enables electric grids to become more flexible and resilient. It lets grid operators store abundant solar and wind energy for later use.

What is a battery management system (PCS)?

The PCS uses battery status, like SoC and DoD, to manage charge and discharge according to the BESS strategy. The PCS can provide a fast and accurate power response by communicating with the battery. It can be driven by a pre-set strategy, external signals (on-site meters, etc.), or an Energy Management System (EMS).



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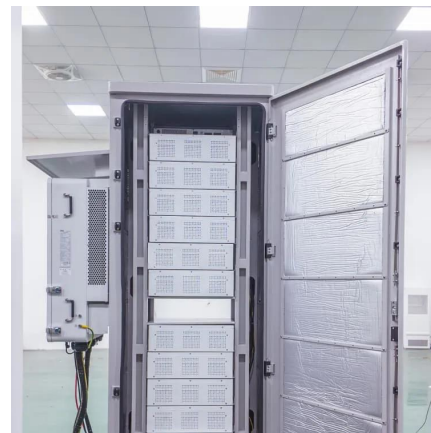
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