

# **Solar container energy storage system cooperative control device**





## Overview

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What is a distributed cooperative control strategy for multi-energy storage interconnected systems?

This paper presents a distributed cooperative control strategy for multi-energy storage interconnected systems, aimed at balancing the SoC of different ESUs to ensure that each ESU can allocate power according to its own SoC while simultaneously achieving voltage stability.

What is shared energy storage?

Shared energy storage is applied to integrated energy systems, providing power auxiliary services to renewable energy and power grids within a certain region through interconnection, coordinated control, and overall management of power devices at different levels.

How does energy storage control work?

This control method avoids circulating current between different batteries and effectively prevents overcharging or deep discharging of the batteries. Each energy storage device cooperatively shares loads under different initial states of SoCs and ESS capacities instead of directly driving all HESSs output power consensus. 1. Introduction.

Can a battery energy storage system support a wind power plant?

Coordinated control strategy of a battery energy storage system to support a wind power plant providing multi-timescale frequency ancillary services  
Khazaei J, Miao Z. Consensus control for energy storage system. In: 2017 IEEE Power & Energy Society General Meeting, Chicago, IL, 2017, pp. 1-1, doi: 10.1109/PESGM.2017.8273744.



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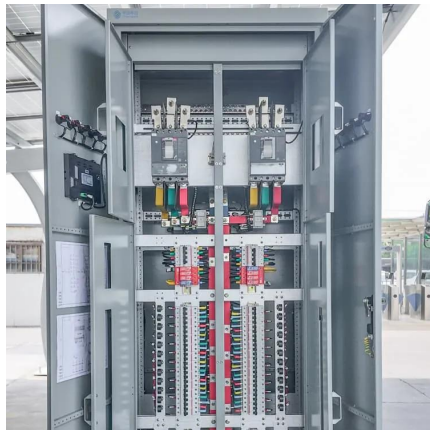
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