



LLSE CONTAINERS

BMS built-in battery





Overview

What is a battery management system (BMS)?

Like lead-acid batteries, lithium batteries can be permanently damaged by overcharging, deep discharging, or extreme temperatures. That's where the Battery Management System (BMS) comes in. Often called the brain of the battery, the BMS ensures your batteries operate safely, efficiently, and for as long as possible. In this guide, we'll cover::

What is a BMS for lithium-ion batteries?

A BMS for lithium-ion batteries acts as the "brain" of the battery pack, continuously monitoring, protecting, and optimizing performance to ensure safe operation and maximum lifespan. Understanding how BMS technology works is essential for anyone involved with lithium-ion applications.

Why do batteries need a BMS?

The BMS helps batteries last longer too. It balances cells so weaker ones don't limit the pack's performance or get damaged faster. By stopping deep discharge and overcharge, it protects against common causes of permanent capacity loss. Lithium-ion batteries need precise control. Most lithium cells work between 10.5V and 14.8V.

Do EV batteries need a BMS?

However, if you have multiple independent battery packs, each pack requires its own BMS to monitor and protect its cells. For example, in an EV with multiple battery modules, each module may have a dedicated BMS, or a centralized BMS may oversee all modules, depending on the system design.

Can I use lithium battery without BMS?



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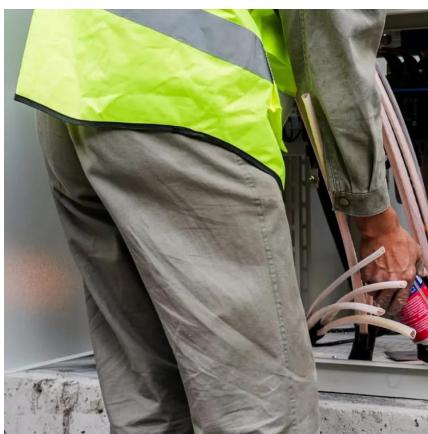
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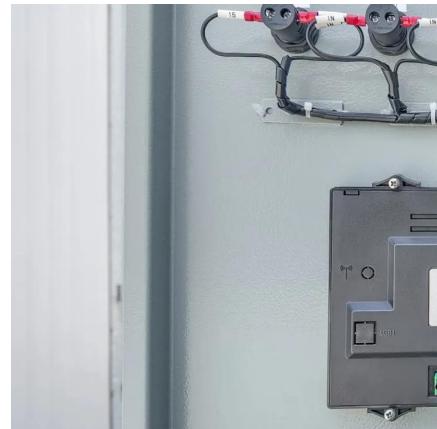
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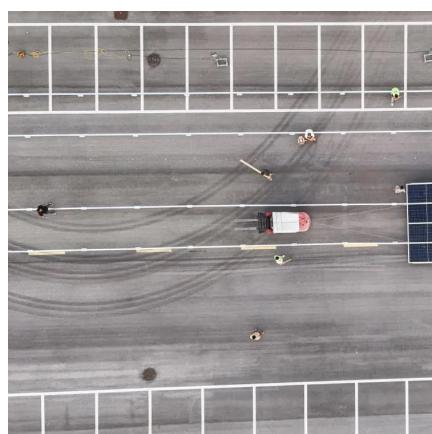


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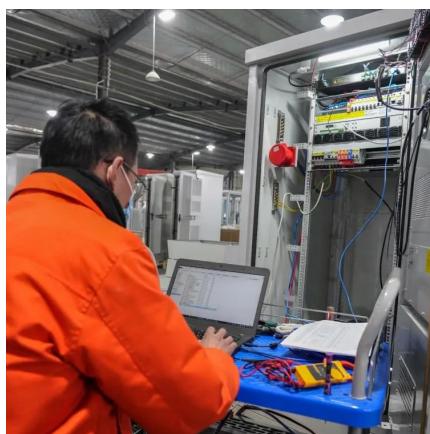


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