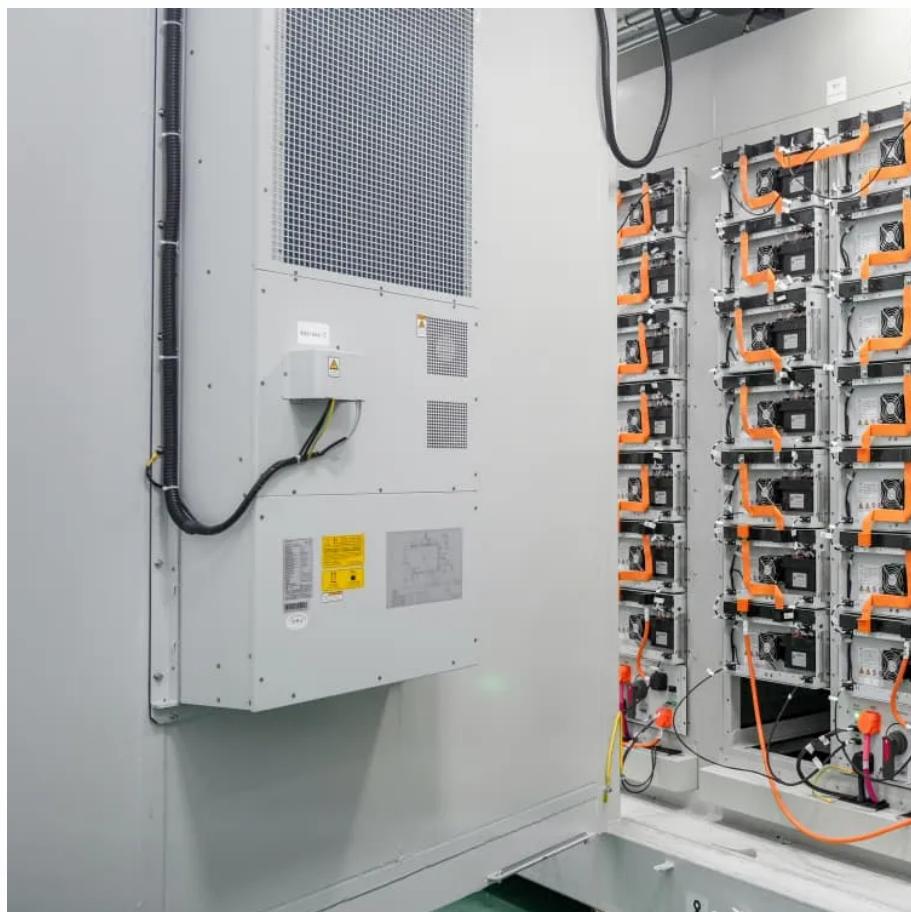




FTMRS SOLAR

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Overview

What is a battery management system (BMS)?

Battery technology has advanced significantly in recent years, with lithium batteries becoming the preferred choice for many applications, from renewable energy storage to marine and RV power solutions. However, to maximize performance and safety, a Battery Management System (BMS) is a critical battery system component.

What is a battery management system?

A Battery Management System is an integrated electronic system designed to regulate and protect lithium batteries. It monitors critical parameters such as voltage, current, temperature, and state of charge to maintain optimal performance.

Do lithium batteries need a BMS?

Unlike lead-acid batteries, which are more forgiving to charging inconsistencies, lithium batteries require precise management to operate safely and efficiently. Without a BMS, lithium batteries are vulnerable to overcharging, over-discharging, and temperature extremes—all of which can lead to failure or safety risks.

How does a BMS protect a battery?

Short-Circuit and Overcurrent Protection Short circuits and excessive current draw can damage a battery and create safety risks. A BMS detects abnormal current levels and can disconnect the battery to prevent damage.



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