



BUHLE POWER

Sierra BMS Battery Management Power System





Overview

What is a battery management system (BMS)?

Battery Management System (BMS) functionalities The BMS centrally manages a battery pack by monitoring cell temperature, voltage, and current via an integrated circuit and algorithm. Its primary function is to guarantee that the cells contained within the battery pack achieve optimal performance and safety.

What is a battery management system?

The battery management system is an electronic system that controls and protects a rechargeable battery to guarantee its best performance, longevity, and safety. The BMS tracks the battery's condition, generates secondary data, and generates critical information reports.

What data does a battery management system collect?

The BMS collects data such as voltage, temperature, current, and state of charge. This data is vital for system diagnostics and performance optimization. The BMS may communicate with other devices, such as vehicle controllers or cloud-based systems, to relay real-time information about the battery's condition and performance.

Why is a battery management system important?

By regulating charging cycles, balancing the cells, and managing temperature, the BMS helps maintain the battery's health. A well-designed BMS minimizes the wear and tear on the battery, leading to a longer operational life.



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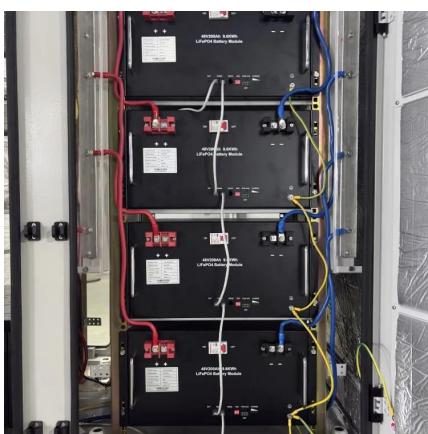
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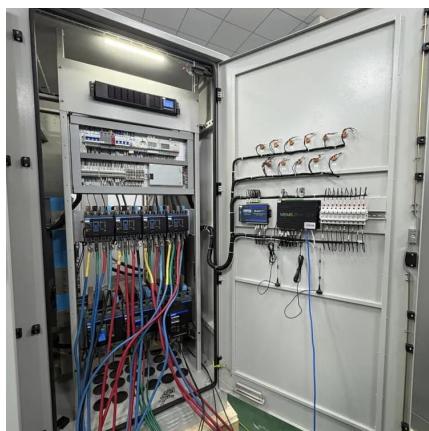
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