

Kongres Container

BMS battery management system solution



Overview

What is battery management system (BMS)?

Click over video to play Battery management systems (BMS) enhances the performance and ensures the safety of a battery pack composed of multiple cells. Functional safety is critical as lithium-Ion batteries pose a significant safety hazard when operated outside their safe operating area.

What is a battery management system?

A battery management system represents one of the most critical safety and performance components in modern energy storage applications. At its core, a BMS serves as an intelligent guardian that continuously monitors individual battery cells and the overall pack to prevent potentially dangerous situations while maximizing efficiency and longevity.

What is a high voltage battery management system (LV BMS)?

Explore High Voltage BMS Optimize your vehicle's performance and safety with our Low Voltage Battery Management System (LV BMS). Designed for modern vehicles, our LV BMS ensures efficient battery protection, extended lifespan, and real-time monitoring.

What is a multi-master battery management unit (BMS)?

NX-Tech's BMS offers a parallel pack control which provides an advantage for scalable, modular battery architectures suitable for: A multi-master BMS allows multiple Battery Management Units (BMUs) to coordinate as peers within a battery system.

Why do EV batteries need a BMS?

For the large, high-voltage battery packs in EVs, accurate monitoring of each individual battery cell and overall pack parameters is critical to achieving maximum usable capacity, while ensuring safe and reliable EV operation. The quality of a BMS directly impacts the miles per charge an EV can deliver.

Why is BMS technology important?

This sophisticated technology acts as the brain of modern battery systems, protecting against dangerous conditions like overcharging, overheating, and cell imbalances. From electric vehicles to renewable energy storage systems, BMS technology has become essential for safely harnessing the power of advanced battery chemistries.

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