

Moroni BMS battery management control system





Overview

What is battery management system (BMS)?

Battery Management System (BMS) is the “intelligent manager” of modern battery packs, widely used in fields such as electric vehicles, energy storage stations, and consumer electronics.

What is a battery management system?

The battery management system includes a battery control unit and multiple cell supervision circuits. The electronic disconnect unit serves as an all-in-one solution that integrates a battery disconnect unit, a battery management system, and optionally the cell monitoring units. based on volume production possible due to global production network.

What is a battery management system & electronical battery disconnect unit?

The battery management system and electronical battery disconnect unit consist of several components designed to monitor, manage, control, and disconnect the battery cells of a battery-electric or plug-in hybrid vehicle. The battery management system includes a battery control unit and multiple cell supervision circuits.

What microcontrollers are used in a battery management system (BMS)?

Microcontrollers: A BMS typically uses microcontrollers to manage the battery cells and pack, and to communicate with external systems and devices. Infineon AURIX microcontrollers such as TC3xxx and Traveo T2G family of microcontrollers can be used to develop and deploy BMS.



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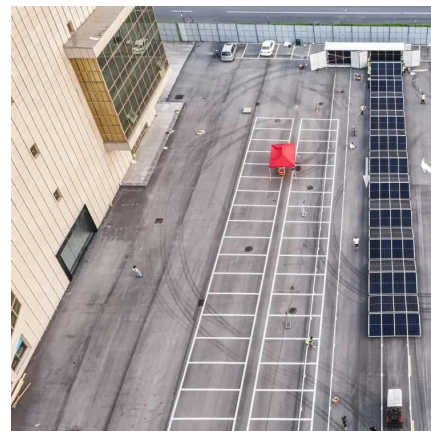
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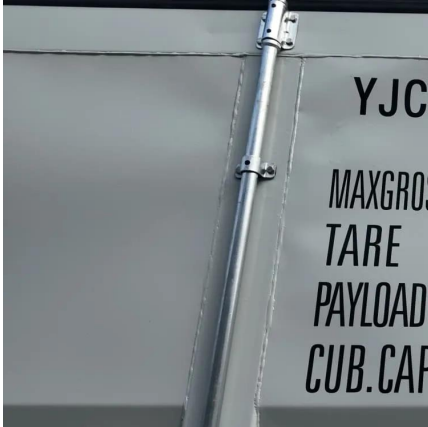
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Introduction
Improving State-of-Charge (SOC) and State-of-Health (SOH) Accuracy
AFE Direct Fault Control
High-Side vs. Low-Side Battery Protections
AFE Safety Functions
Conclusion
Battery-powered applications have become commonplace over the last decade, and such devices require a certain level of protection to ensure safe usage. The battery management system (BMS) monitors the battery and possible fault conditions, preventing the battery from situations in which it can degrade, fade in capacity, or even potentially harm the See more on media.monolithicpower.cn
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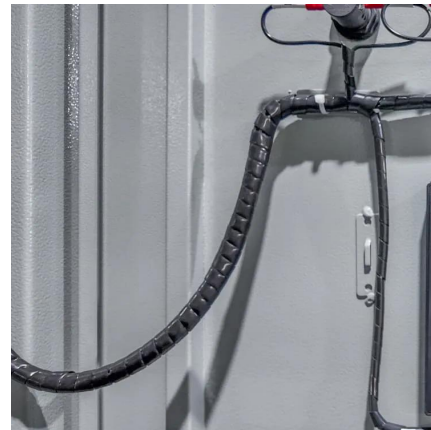


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