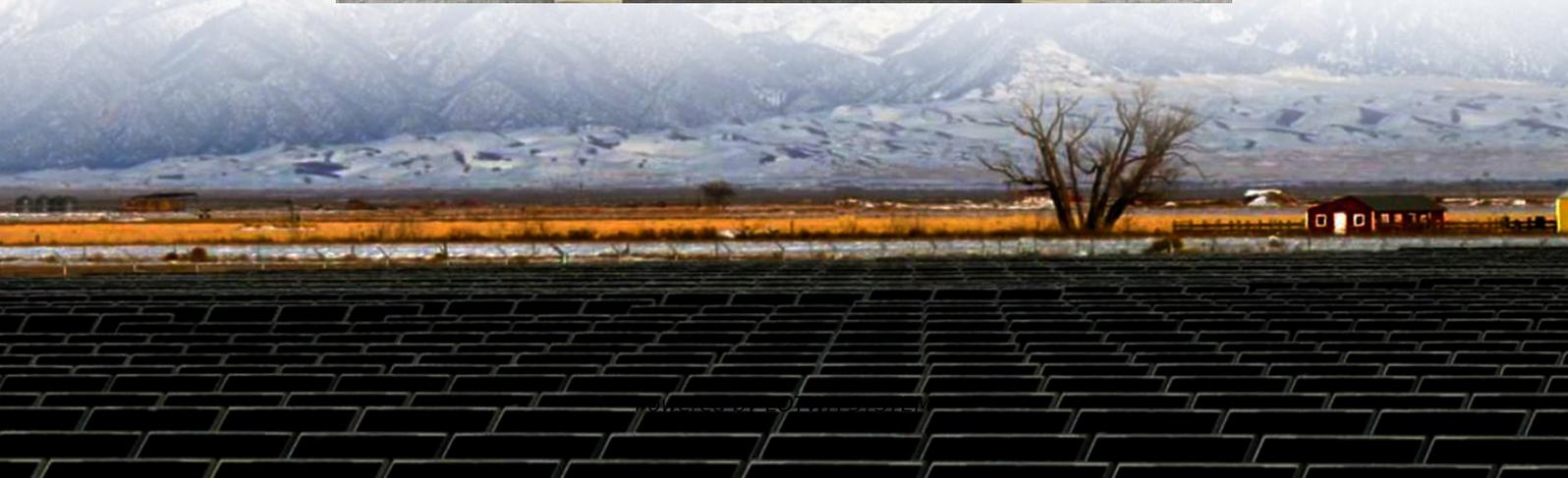


Vilnius BMS battery management system function introduction





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 BMS used for?

A Battery Management System (BMS) is widely used in various applications such as electric vehicles (EVs), energy storage systems (ESS), uninterruptible power supplies (UPS), and industrial battery applications.

What is a typical BMS architecture used in EVs?

Based on the provided block diagram, we will walk through the essential components and functions of a typical BMS architecture used in EVs, referencing each major block from the image. Li-ion Cells (Battery Cells): The foundation of the system consists of lithium-ion cells that form the battery pack.

What is a battery management system?

The flow of operations in the Battery Management System is a carefully orchestrated process designed to ensure the safety and efficiency of the battery pack while providing the vehicle with reliable power. Here’s how the various components interact in real time:



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