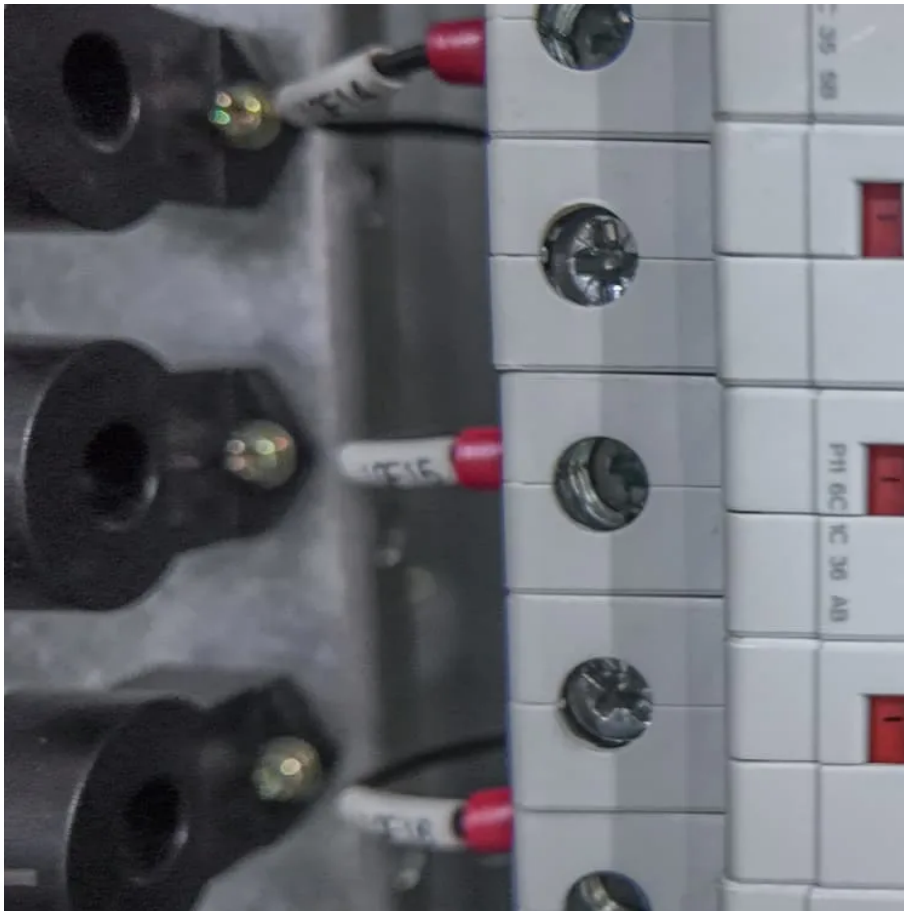


Battery Module and BMS





Overview

What is a battery management system (BMS)?

A Battery Management System (BMS) is an electronic system that manages and monitors the charging and discharging of rechargeable batteries. There are two main types of BMS architectures: centralized and distributed/modular system. Each architecture has its advantages and disadvantages, and in this post we will explore them.

What functionalities can be found in a battery management system (BMU)?

Some other functionalities that can be in the BMU are interlock functionality or the real time clock and vector management system for the software. BMS Software Architecture: The battery management system architecture has different layers that abstract different parts of hardware.

What are the regulatory modes of a battery management system (BMS)?

The control technique being presented operates in two distinct regulatory modes, namely maximum power point tracking (MPPT) mode and battery management system (BMS) mode.

What is a BMS used for?

BMSs are used in various applications, including Electric Vehicles (EVs), smartphones, renewable energy storage systems, and other devices powered by rechargeable batteries. The building unit of the battery system is called the battery cell. The battery cells are connected in series and in parallel to compose the battery module.



Battery Module and BMS



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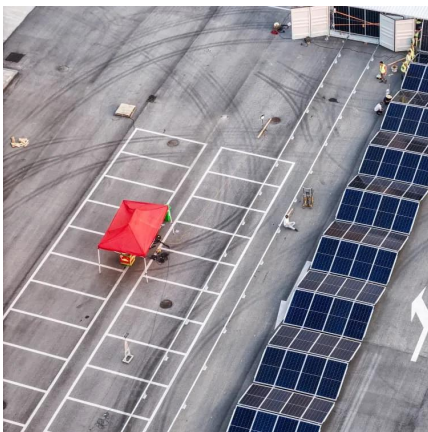
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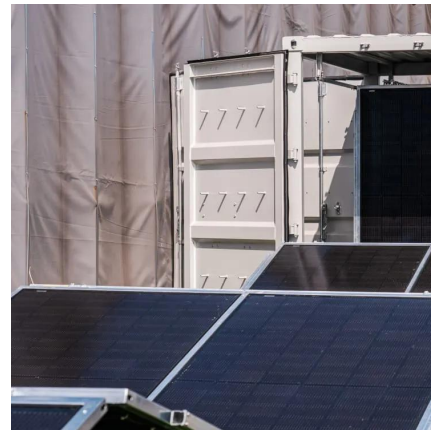
Types of BMS

Default Description Centralized BMS Figure 2: BMS architectures A centralized BMS is one of the most commonly employed architectures. ...



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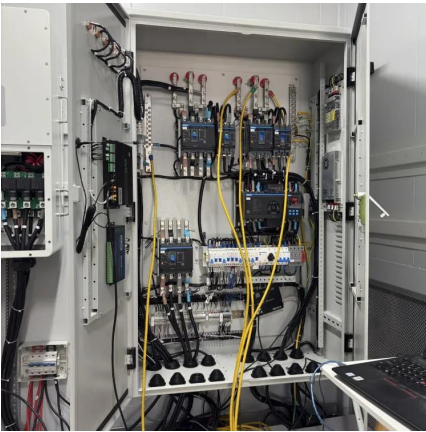
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