

What is a battery management system (BMS)?

It is a part of the application. The primary task of the battery management system (BMS) is to protect the individual cells of a battery and to increase the lifespan as well as the number of cycles. This is especially important for lithium-ion technology, where the batteries must be protected against overcharging and over-temperature to prevent them from being damaged.

What is a BMS battery pack?

Significance of BMS: Mostly, large battery packs consist of multiple modules. These modules are constructed from cells, which are connected in series and/or in parallel. The cell is the smallest unit. In general, the battery pack is monitored and controlled with a board which is called the Battery Management System (BMS).

How does a BMS affect battery life?

It has a significant impact on battery life. Each battery has a specific number of charging and discharging cycles depending on its used chemistry and depending on the SOC ranges the battery is used in. BMS must check for the most efficient way for charging and discharging procedures. Additionally, a BMS must maintain the proper SOC so that the battery is always in a safe operating range.

As an indispensable interface, a battery management system (BMS) is used to ensure the reliability of Lithium-Ion battery cells by monitoring and balancing the states of the battery cells, ...

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