

ContainerPower Energy Solutions

Lithium Battery BMS



Overview

The primary function of the BMS is to protect the battery cells from damage caused by being overcharged or over-discharged. Additionally, the BMS calculates the remaining charge, monitors the battery's temperature, and monitors the battery's health and safety by checking for loose connections and internal shorts. The BMS also balances the charge across.

A battery management system (BMS) is said to be the brain of a battery pack. The BMS is a set of electronics that monitors and manages all of the battery's performance. Most importantly, it keeps the battery from operating outside of its safety margins. The battery management system is critical to the battery's safe operation, overall performance, and

The battery management system monitors individual cells in the battery pack. It then calculates how much current can safely go in (charge) and come out (discharge) without damaging the battery. The current limits prevent the source (usually a battery charger) and the load (such as an inverter) from overdrawing or overcharging the battery. This protects

Battery management systems are critical in protecting the battery's health and longevity but even more important from a safety perspective. The liquid electrolyte in lithium-ion batteries is highly flammable. So, these batteries need to be operating optimally and within safety limits at all times to prevent a fire.

All Battle Born Batteries have a built-in BMS. This protects against all of the most common causes of battery failures and dangers. These include protecting the cells against short circuits, high currents, excessive heat, cold, and high or low voltages. Battle Born's built-in BMS also protects against faults. [Learn All About Battle Born's Battery M.](#)

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