

## SolarTech Power Solutions

# What does 12 strings mean in the BMS battery management system



## Overview

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Do lithium ion batteries need a BMS system?

Lithium-ion batteries, especially custom lithium ion battery packs, need a BMS (Battery Management System) to ensure the battery is reliable and safe. The battery management system is the brain of the lithium battery and reports the status and health of the battery. Let's get a better understanding from this article. What is a BMS System?

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

(Image: Eaton.) One of the most important components in the BMS is the primary fuse, which provides overcurrent protection to the whole battery pack. The BMS also includes a self-control fuse further down the circuit, attached to the BMS controller, that provides an additional layer of protection.

What is a battery management system (BMS) in electric vehicles?

The core function of a BMS (Battery Management System) in electric vehicles is to coordinate five roles that together govern safety and performance: Monitoring, Protection, Balancing, Thermal management, and Reporting & Communication. Fig.2 — BMS key functions at a glance (icon overview).

What is a battery management system?

The battery management system is the brain of the lithium battery and reports the status and health of the battery. Let's get a better understanding from this article. What is a BMS System?

The BMS (Battery Management System) serves as the circuit protection component in the battery.

How can BMS technology help a battery installation?

From basic voltage monitoring to advanced predictive analytics, we've explored how modern BMS technology serves as the nervous system of any battery installation.

How many connectors does a BMS have?

There are 4 high voltage connectors along along edge, for connection to cell voltage sense taps wires. There are 2 low voltage connectors along a short edge, for connection to thermistors, the contactor box, and the external system The BMS uses a 2-sided PCB, with SMD components on both sides. The PCB has 6 right angle, automotive grade connectors.

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