

# **Columbia BMS Battery Management Power System**





## Overview

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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 master controller?

Data is sent to a BMS Master Controller, which aggregates and analyzes the information. Battery Management Unit (BMU): The Battery Management Unit (BMU) is a key component in a Battery Management System (BMS) responsible for monitoring and measuring critical parameters of the entire battery pack or its individual cells.

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.

What is BMS Power Control & protection?

Power Control and Protection The BMS is equipped with power control circuitry that protects the battery pack from dangerous conditions such as overvoltage, undervoltage, overcurrent, and temperature extremes.



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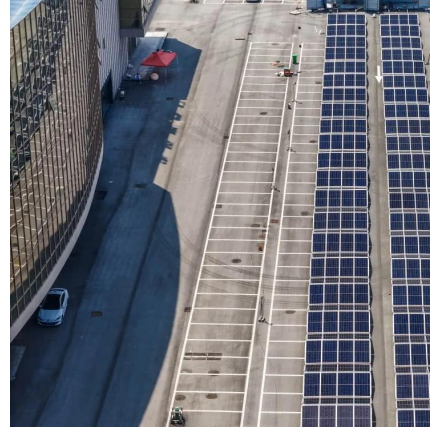
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