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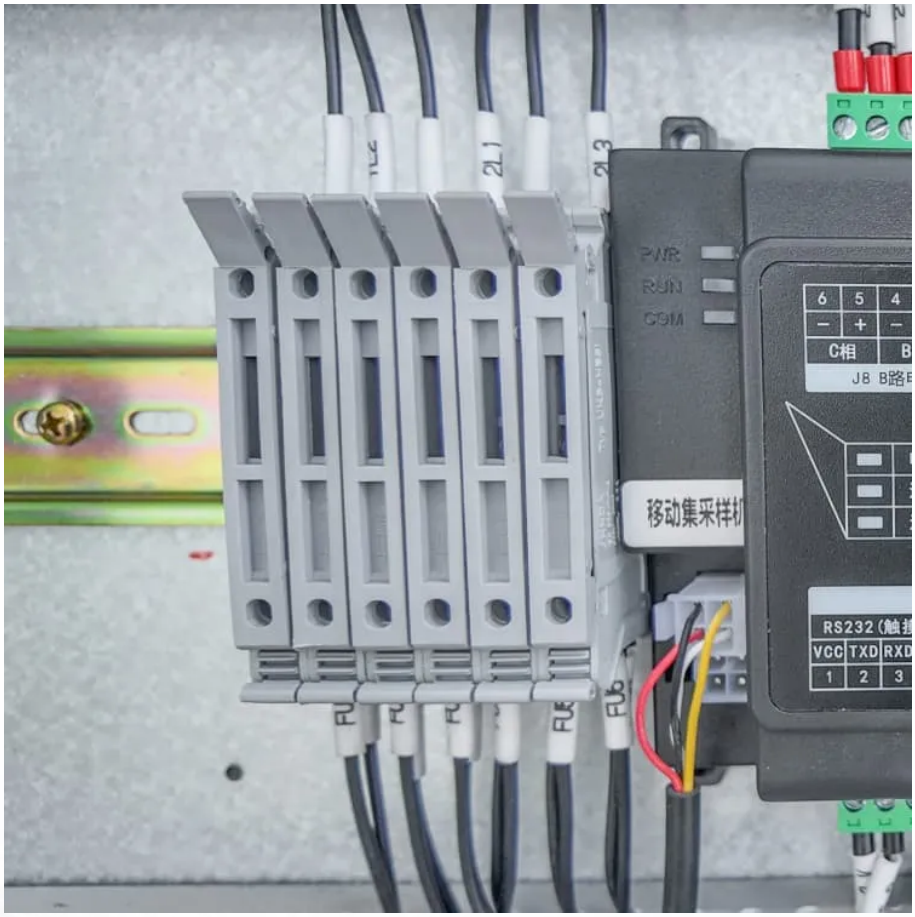
German energy storage lithium battery BMS



Overview

What is a battery energy storage system?

Currently, most large battery systems (Battery Energy Storage Systems, or BESS) are powered by lithium-ion batteries. Such batteries are favoured especially due to their long life cycle and simple operation. Furthermore, alternative battery technologies are still in development and therefore not yet ready for market launch.

What are large battery storage systems?

Large battery storage systems are a particularly interesting solution because they are environmentally friendly, eficient, and profitable. Currently, most large battery systems (Battery Energy Storage Systems, or BESS) are powered by lithium-ion batteries. Such batteries are favoured especially due to their long life cycle and simple operation.

How can lithium-ion batteries improve safety?

The increasing energy density of lithium-ion batteries leads to increasing safety requirements in battery systems, especially in mobile applications such as urban air mobility or drone applications. These requirements can be addressed with adapted sensors and actuators, such as low-cost temperature sensors or high-power antifuses.

Who makes BMZ batteries?

The BMZ Group develops and produces high-tech battery systems, which are installed worldwide in the most diverse products of well-known brands. In addition to OEM products, BMZ also manufactures battery systems with its own brands.

Why should you choose tesvolt energy storage systems?

TESVOLT energy storage systems are the economical choice for the most demanding applications. Made in Germany, in Europe’s first ever gigafactory

for stationary battery storage systems, in Lutherstadt Wittenberg. Quality, performance, and optimum interplay between the individual components set our storage systems apart from the rest.

What types of rechargeable energy storage systems are available?

The necessary hardware and software for almost any type of mobile and stationary application using advanced rechargeable electrochemical energy storage systems is already available. These systems include lithium-ion, lithium-sulfur, lithium-metal, aluminum-ion, and redox-flow batteries and fuel cells.

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A reliable energy storage system depends on a Battery Management System (BMS). The BMS monitors the charging and discharging processes of the batteries in the storage, protects them ...

TESVOLT produces battery storage systems based on lithium batteries that can be connected to all renewable energies: sun, wind, water, biogas and thermal power.

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