



# 400 kWh battery management system

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300 kWh battery is an all-in-one energy storage system popular for industrial and commercial use. Customizable designs allow for different battery capacities, like 100 kWh 250 kWh, 400 kWh, 500 kWh, 600 kWh, 1000 kWh, and more.

Equipped with a battery management system, temperature control system, and intelligent controller, we ensure quality through strict testing before delivery, ensuring safe and stable operation.

It can be used in solar power system, hydro, and wind power systems to store energy and provide power for industries and businesses with renewable energy. Plus, it can take advantage of price differences to charge and discharge electricity during peak and off-peak hours, earning revenue from utility companies.

High compatibility: It can be equipped with most off-grid inverters and mixed-grid inverters, and some brands need to provide communication protocols. It can be equipped with all kinds of power equipment.

Warranty: The warranty time of the battery is 8 years. During the warranty period, we will provide free battery firmware upgrade, battery troubleshooting and repair. If the battery malfunctions after the warranty period, we still provide free diagnostic service and paid replacement parts.

Integrated customized solution: the battery cabinet can be customized, PCS, EMS, BMS, solar inverter, solar charger controller, battery bank, etc. can be placed in the same cabinet, integrated design, higher degree of integration, more convenient to monitor and manage.

Safe and Reliable Intelligent control system, independent management of battery cluster, unique fault diagnosis system, quick fault location and analysis and self-recovery.

Simple and Flexible Simple and compact structure, diversified configuration, flexible application in micro grid, PV storage and charging integration, multi-application.

300kWh battery system is medium and large-scale energy storage solution, widely used in industry, business. For example: building groups, pumped storage power stations, power auxiliary energy storage, microgrid systems, data center backup power, waterpower generation energy storage and so on.

Built on the Volvo Group's electromobility platform, the battery management system (BMS) helps the battery reach its full potential and longevity by protecting it from excessive degradation, maintaining optimal SOC, and optimizing charging cycles. The BMS also incorporates cybersecurity features to meet global cyber compliance requirements.

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It is designed for easy integration with the BESS OEM's energy management systems and SCADA infrastructure, to meet the demands of industrial applications. Given the substantial investment often required for BMS, the integration of this automotive-grade platform with battery technology aims to deliver operational reliability and value, while driving long-term efficiency and optimizing system performance.

The DC/DC unit converts the voltage from the batteries (600 V) into lower voltage (24 V) to auxiliaries. The auxiliary power required to maintain the subsystem functionality is provided by the onboard converter as soon as the system is started; in contrast to something that is plugged into the grid to power. This facilitates the batteries' cooling requirement should a BESS featuring our subsystem is moving or in a location without grid connection.

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