



Industrial energy storage battery 100 kWh

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Bonnen's ESS-100-215B stands out as a comprehensive energy storage solution tailored for the demands of industrial and commercial settings. Engineered to bolster grid resilience, augment renewable energy utilization, and furnish seamless UPS backup, our system ensures continuous power provision. With cutting-edge innovations and a resilient build, Bonnen's energy storage system guarantees dependable performance, heightened efficiency, and adaptable functionality. Empowering enterprises to fine-tune their energy consumption and champion sustainability, Bonnen's ESS-100-215B opens doors to new realms of energy management excellence. Unleash the potential with Bonnen's ESS-100-215B and elevate your energy strategy to unprecedented heights.

1. **Top-Tier Safety Standards:** Prioritizing safety, the ESS-100-215B incorporates the safest lithium battery chemistry and a sophisticated 3-level battery management system. This strategic combination heightens protection against potential risks, instilling confidence in users while safeguarding both the system and its surroundings with unparalleled reliability.
2. **Exceptional Performance and Durability:** Renowned for its exceptional performance and extended lifespan, the ESS-100-215B offers dependable energy storage solutions. Supported by advanced technology and sturdy construction, it ensures consistent performance over time, maximizing returns on investment and minimizing upkeep requirements for sustained operational excellence.
3. **Comprehensive Integrated Design:** The ESS-100-215B distinguishes itself with its all-encompassing design, seamlessly combining battery, PCS, HVAC, fire suppression, thermal management, and more within a singular unit. This holistic approach guarantees smooth integration and operational efficiency, streamlining installation and maintenance procedures for enhanced convenience.
4. **Advanced Control and Efficiency Enhancement:** Leveraging a single string design, the ESS-100-215B achieves parallel zero capacitance loss, integrated harmonic control, reactive power compensation, and 3-phase unbalance control. This sophisticated control system optimizes energy flow, improves system efficiency, and maintains stable operation across varying conditions for unparalleled performance reliability.
5. **Expandable and User-Friendly:** Designed to support multiple cabinets for seamless parallel connection, the ESS-100-215B facilitates effortless energy storage system expansion. Its plug-and-play functionality simplifies scalability, enabling hassle-free integration and customization to meet evolving energy storage demands with unparalleled ease of use.

6. Versatile Application Compatibility: Tailored for both on-grid and off-grid (island mode) applications, the ESS-100-215B excels in providing efficient energy storage solutions. Whether connected to the grid or operating autonomously, it delivers adaptable performance suited to diverse needs and environments, ensuring optimal functionality in any scenario.

Advanced Thermal Management: The ESS-100-215B features an advanced thermal management system, employing air cooling to regulate the temperature of each individual cell within the battery pack. This ensures optimal battery performance and cycle life by averting overheating and maintaining optimal operating conditions.

Efficient Equalization BMS: Incorporating a highly efficient Equalization Battery Management System (BMS), the ESS-100-215B adopts a single series design complemented by efficient equalization technology. This minimizes parallel capacity loss within the system, maximizing energy storage capacity and overall efficiency.

Comprehensive Intelligent Control: Equipped with a comprehensive intelligent control system, each module unit of the ESS-100-215B facilitates remote monitoring and unattended operation. Users can efficiently manage the Power Conversion System (PCS), Battery Management System (BMS), and load, ensuring effective energy management and system optimization.

Extended Service Life: Setting itself apart with a prolonged service life, the ESS-100-215B relies on premium LFP cells specifically engineered for energy storage. With a cycle life exceeding 8000 times, users can count on consistent performance and durability over an extensive duration.

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