



Commercial energy storage 240 kWh

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The 240 kWh Energy Storage System (ESS) stands as a powerful commercial energy storage solution, meticulously tailored to meet the dynamic demands of diverse industries. Comprising rackable battery units and Battery Control Units (BCUs), the system is ingeniously designed with modularity in mind, allowing seamless stacking of units to match varying energy requirements.

Crafted around 105Ah LiFePO₄ cells, the heart of each battery unit thrives in a 2 parallel and 16 serial configuration, 51.2V nominal voltage and an individual capacity of 10.75 kWh. This inherent modularity facilitates a layered approach, where eleven of these units, along with one BCU, converge to create a 118.25 kWh battery system. This ingenious concept continues as two of these 118.25 kWh systems are parallel-connected, culminating in a 236.5 kWh total capacity.

Distinguished by its wide voltage range--operating between 492.8V and 633.6V--the ESS emerges as a high-voltage powerhouse, ideally suited for intricate energy infrastructure demands. The system's normal current of 147A attests to its capability in managing substantial power fluctuations.

Beyond its impressive capacity, the 240 kWh ESS excels in applications where resilient energy storage is paramount. From demand charge optimization and load management to fortified grid stabilization and seamless renewable integration, its versatility underscores its adaptability to multifaceted commercial and industrial contexts.

This ESS stands as an embodiment of energy innovation, poised to redefine energy landscapes through its high capacity, advanced technology, and customizable design. With unwavering energy reserves and scalability, it empowers industries to navigate evolving energy needs while optimizing costs, enhancing operational efficiency, and championing sustainable energy practices.

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