

Outdoor Cabinet Battery Energy Storage System

HEX225-400-A



Intelligent Synergistic Energy Management Platform

Multi-Functional Integration: Enables coordinated control for diverse applications including grid peak shaving, renewable energy consumption, and backup power.

Adaptive Control: Automatically switches operating modes based on grid demands and load variations, improving energy utilization efficiency by over 30%.



High-Precision Battery Management System

Cell-Level: Utilizes 314Ah high-capacity cells in series, increasing energy density by 15%.

Pack-Level: Intelligent balancing of 16 cells, maintaining voltage deviation <0.1V.

System-Level: Dual management with BMU+BCMU, real-time monitoring of 2000+ cell parameters.



Comprehensive Safety Protection System

Thermal Management Guarantee: Liquid cooling system maintains $\leq 3^{\circ}\text{C}$ temperature difference between cells, extending cycle life to 6000 cycles.

Triple-Layer Fire Protection: Detection layer – multi-sensor fused early warning; Control layer – millisecond-level fault isolation; Execution layer – targeted Novec 1230 suppression.



Smart O&M & Reliable Power Supply

Dual Power Input: Seamless switching between 220VAC/24-VDC auxiliary power ensures uninterrupted control system operation.

Remote Connectivity: WiFi/4G dual-mode communication supports cloud diagnostics, reducing maintenance response time to 15 minutes.

Modular Scalability: 14-pack series architecture enables flexible capacity configuration (50kWh-1MWh).

Model	HEX225-400-A
DC Battery	
Cell type LFP	Voltage range
Battery Pack capacity and configuration	16.077kWh/1P16S
Battery capacity and number of packs	225kWh/14
Charge and discharge ratio	≤0.5C
Depth of discharge	100%
Cycle index	8000cls (0.5P, 25±2°C, @70%SOH)
Temperature detection points	112
Inverter DC	
Rated current 200A	200A
Rated power 143.4kW	143.4kW
PV DC Side	
Maximum number of input branches	2-way (optional 2 PV MPPT controllers)
Rated current of each channel	168Ax2
Rated power of each channel	120kWx2
System	
Factory-set SOC value	30%-50%
Battery voltage range	627V-806V
Rated voltage	716.8V
Operating temperature	-30~55°C
Relative humidity	0~95%RH, non-condensing
Dimensions	1050×1050×2350mm
Weight	2100kG
IP grade	(Complete machine)IP54
Noise	< 70dB
Cooling concept	Forced air cooling
Related certificates	CE/UN38.3/MSDS/Sea Transportation Certificate/Land Transportation Certificate/Danger Identification Report