

125kW/225kWh|257kWh On/Off-grid All-in-one Energy Storage System

(HEXSTS125kW-225kWh)

(HEXSTS125kW-257kWh)



Comprehensive Safety

- **Active Protection** 128-point temperature monitoring & early warning
- **Multi-Level Safety** Three-level BMS fault protection strategy
- **Fire Prevention** Aerosol fire suppression with IP54 enclosure



High Efficiency

- **8000+ Cycles** Long-life LFP 314Ah battery technology
- **≥90% Efficiency** High-performance energy conversion
- **Maximized ROI** Peak shaving and energy cost optimization



Simple O&M

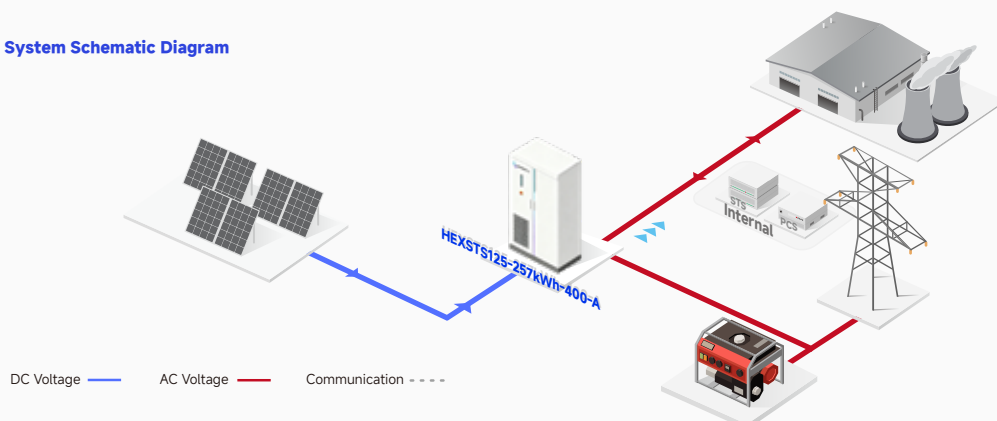
- **Remote Management** Cloud-based monitoring & control
- **Intelligent Dispatch** EMS-driven energy optimization
- **Real-Time Diagnosis** Instant fault detection and alarm



Easy Deployment

- **All-in-One System** Fully integrated hybrid ESS solution
- **<20ms Switching** Seamless power source transition
- **Flexible Expansion** Modular design for future scalability

System Schematic Diagram



Model	HEXSTS125-225kWh	HEXSTS125-257kWh
DC Battery		
Cell type	LFP 314Ah	
Battery Pack capacity and configuration	16.077kWh/1P16S	
Battery capacity /Pack quantity	225kWh/ 14	225kWh/ 16
Battery voltage range	627V ~ 806V	716.8V-921.6V
Rated charge/discharge rate and current	0.5C, 157A	
Cycle index	8000cls (0.5P, 25±2 ° C, @70%SOH)	
Number of temperature monitorings	112	128
PV DC Side		
Maximum Input Power	200kW	240kW
Maximum Input Power	320A	
Voltage Range/System Bus Voltage	650V-800V	650V-900V
Input Switch	Two 250A/1000Vdc/2P, one PV MPPT controllers can be connected	
AC side(Grid-connected)		
AC rated power	125kW	
AC maximum power	137.5kW	
Rated Current	180A	
THDi	<3%	
DC component	< 0.5% LPN	
System Voltage Configuration	3W+N+PE	
Voltage range	360VAC~440VAC	
Frequency range	45~55Hz/55~65Hz	
Power factor	-1~1	
AC side (Off-grid)		
Rated Output Power	125kW	
Maximum Single-phase Output Power	60kW	
Rated Output Voltage	400V	
Rated Output Frequency	50/60 Hz	
THDu	<3%	
Overload Capability	110% overload for 10 min	
Distribution and switching time		
Bypass Maintenance Switch	250A/400Vac	
Load Switch	250A/400Vac	
Grid Switch	400A/400Vac	
STS Switch	289A/200kW	
Switching Time	<20ms	
System		
Factory SOC Set Value	30%-50%	
Maximum System Efficiency	≥90%	
Operating Temperature	-30~55°C (Derating use over 40 °C)	
Relative Humidity	0 ~ 95% RH,non-condensing	
Dimensions	1600×1050×2050mm	1600×1050×2300mm
Weight	2400kG	2700kG
IP Grade	Complete machine (IP54)	
Noise	<70dB	
Networking Methods	4G / Wifi / Ethernet	
Fire Protection	Aerosol	
Display Screen	LCD Touch Screen	
Diesel generator connection		
Grid feedback input	220Vac	
Diesel engine drive output	Dry contact	
Other parameters		
Related Certificates of Integrated Machine	CE/UN38.3/MSDS/Sea and Land Transportation Certificate Dangerous Goods Identification Report	