

ES125X Air Cooling Energy Storage System

125 kW | 241 kWh | All-in-One | Auto Grid/Off-Grid Switching



Safe & Reliable

Dual fire protection for both the module and cabinet with an automatic aerosol suppression system. The advanced LFP battery cells boast 8,000+ charge cycles.

Robust Adaptability

Engineered with IP55-rated protection to withstand high temperatures and humidity—dustproof, water-resistant, shockproof, and corrosion-resistant.

Smart Operation

Comprehensive EMS monitoring, real-time cloud data, and intelligent control strategies ensure reliable performance.

Flexible Expansion

Compact design with centralized management allows for AC-side parallel expansion as needed, maximizing space efficiency and cost savings.

All-in-One Solution

Fully integrated components pre-assembled in the factory, significantly reducing on-site installation complexity.

Modular Design

A comprehensive system includes a PV inverter, STS, isolation transformer, and battery, allowing easy expansion, maintenance, and replacement.

VSG Sync Technology

Supports up to 4 off-grid units in parallel, ensuring seamless synchronization.

Model	ES125X
PV Side	
Max Input Power	120 kW
Operating Voltage	250 V to 660 V
Max Input Voltage	660V
Num MPPT/String	4
Max Input Current	80 A × 4
AC Side(On-grid)	
Rated AC Power	125 kW
Rated AC Current	180 A
Max Output power	137 Kw
Max Output Current	198 A
Grid Voltage	400 V, 3P+N+PE
Grid Frequency	50 Hz
Power Factor	-1 (lagging) to +1 (leading)
THDI	< 3% (at rated power)
AC Side(Off-Grid,STS Optional)	
Rated Output Power	125kw
Rated Output Current	180A
Max Output Power	137kw
Max Output Current	198A
Output Voltage	400 V, 3P+N+PE
Output Frequency	50 Hz
THDu (Linear Load)	< 3% (at rated power)
Overload Capability	1.1 times rated power (continuous)
On-Grid/Off-Grid Switchover Time	≤10 ms
Battery Side	
Battery Chemistry	LiFePO4
Rated Capacity	241 kWh
Battery Voltage	672V to 864 V
Configuration	1P × 16S × 15S
Max Charge/Discharge Current	157A
General	
Max. Parallel Units	On-Grid:6 pcs /Off-Grid: 4 pcs
operating Temperature	-25°C to 55°C (derating above 45°C)
Relative Humidity	0 to 95%
Operating Altitude	≤ 4,000 m (derating above 2,000 m)
Protection Rating	IP55
Cooling Method	Air Cooling
Noise	≤ 70 dB
Electrical Protection	Ground fault circuit interrupter (GFCI), Insulation resistance monitoring, Anti-islanding protection, Output overcurrent protection, Short-circuit protection
Protection Class	Class I
Weight	Approx. 3,500 kg
Dimensions (W × D × H)	1,800 × 1,200 × 2,300 mm
Packaging Dimension	2,030 × 1,640 × 2,490 mm
Warranty	5 years/10 years(optional)

Certifications

Standard IEC 62619,EN/IEC 62109-1,EN/IEC 62109-2,EN/IEC 62477-1, IEC/EN60529,EN/IEC 61000-6-4,EN/IEC 61000-6-2,UN 38.3

Note: Specifications are subject to change without notice.