

ES125

Liquid-Cooled Energy Storage System

125 kW | 257 kWh | Integrated Cabinet | Auto Grid/Off-Grid Switching



Safety in Every Detail

- IP68/IP54 protection against dust and water.
- Q235A high-strength carbon steel enclosure (500 MPa tensile) for robust durability.
- Smart fire suppression and real-time alerts ensure operational safety.



Simple to Install

All-in-one cabinet integrates PCS, solar input, STS, and batteries. Connect to grid and load for instant operation.



Reliable in Any Conditions

Operates from -25°C to 60°C with advanced liquid cooling, keeping cell temperature differences within 3°C for steady and efficient power.



Flexible and Scalable

Easily parallel multiple units with automatic grid/off-grid switching. Configure capacity to meet exact operational requirements.

| Model | ES125 |
|----------------------------------|---|
| PV Side | |
| Rated Input Power | 126 kW |
| Max. Input Power | 140 kW |
| Operating Voltage | 394 V to 686.8 V |
| Max. Input Voltage | 900 V |
| No. of MPP Trackers/Strings | 2/2 |
| Max. Input Current | 160 A per string (× 2) |
| Battery Side | |
| Battery Type | LiFePO ₄ |
| Rated Capacity | 257 kWh |
| Battery Voltage | 716.8 V to 921.6 V |
| Configuration | 1P × 64S × 4S |
| Max. Charge/Discharge Current | 157 A (subject to BMS strategy) |
| AC Side (On-Grid) | |
| Rated AC Power | 125 kW |
| Rated AC Current | 180 A |
| Max. Output Power | 137.5 kW |
| Max. Output Current | 200 A |
| Grid Voltage | 400 V, 3W+N+PE/3W+PE |
| Grid Frequency | 50/60 Hz |
| Power Factor | -1 leading to +1 lagging |
| THDi | < 2% (at rated power) |
| AC Side (Off-Grid) | |
| Rated Output Power | 125 kW |
| Rated Output Current | 180 A |
| Max. Output Power | 137.5 kW |
| Max. Output Current | 200 A |
| Output Voltage | 400 V, 3W+N+PE/3W+PE |
| Output Frequency | 50/60 Hz |
| THDu (Linear Load) | < 3% |
| Overload Capability | 1.1 times rated power (continuous) |
| On-Grid/Off-Grid Switchover Time | < 20 ms |
| Certifications | |
| Battery | UN 38.3, IEC 62619, EMC |
| General | |
| Max. Parallel Units | 3 (both grid-tied and off-grid) |
| Operating Temperature | -25°C to 60°C (derating above 45°C) |
| Relative Humidity | 0 to 95% |
| Operating Altitude | ≤ 4,000 m (derating above 2,000 m) |
| Protection Rating | IP68 (battery compartment)/IP54 (electrical compartment) |
| Cooling | Liquid cooling |
| Noise Level | ≤ 75 dB |
| Standby Power Consumption | < 100 W |
| Electrical Protection | Ground Fault Circuit Interrupter (GFCI) Insulation Resistance Monitoring Anti-Islanding Protection Output Overcurrent Protection Short-Circuit Protection |
| Protection Class | Class I |
| Overvoltage Category | PV (II), AC (III) |
| Weight | Approx. 3,000 kg |
| Dimensions (W × D × H) | 1,820 × 1,120 × 1,940 mm |
| Warranty | 5 years |