

2.5MW-5MWh-2h

Integrated AC and DC Energy Storage System



Innovative Design

- Highly integrated design within a 20-foot standard container, strictly meeting maritime shipping requirements
- PACK 1P104S design, with high-voltage boxes and PCS highly integrated and layout further optimized
- Integrated AC/DC design, increasing energy density by 14% and reducing LCOE by 3-5%

High Reliability

- Advantages of high integration and high safety, with efficient operation and maintenance management throughout the entire lifecycle
- "Three-level" fire control linkage strategy, with an IP54 protection rating for the entire unit, supporting use at altitudes up to 4,000 meters

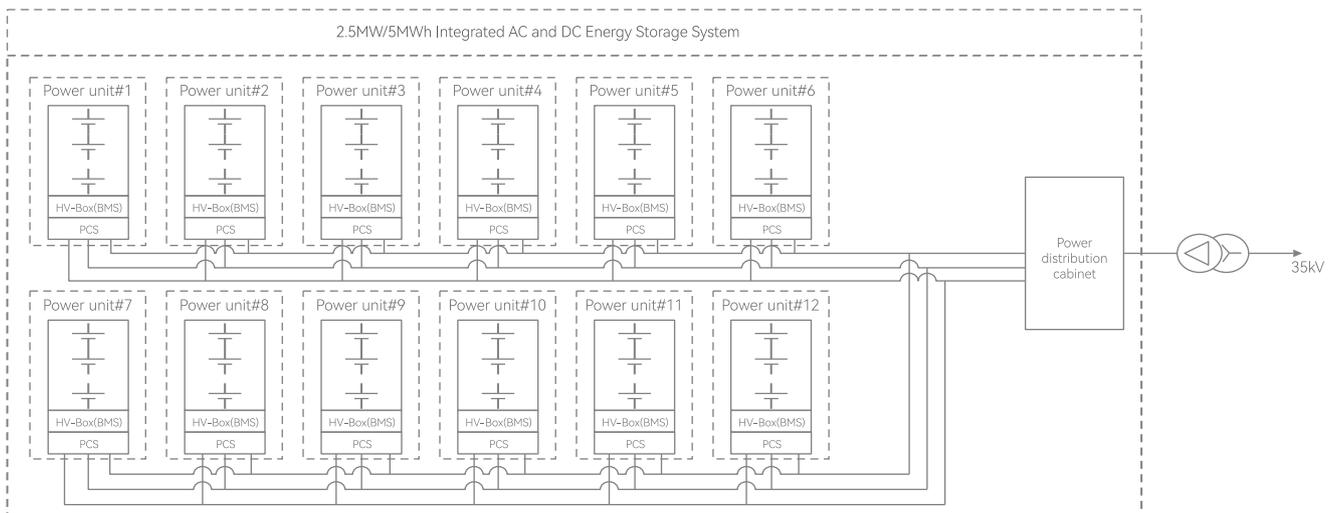
Upgraded Configuration

- 12-cluster 314Ah large-cell design paired with 208kW string modules for seamless AC/DC system integration
- 1:1 cluster-level management eliminates parallel circulating currents and capacity loss at the cluster level

Extended Lifespan

- System cycle life exceeding 8,000 cycles
- Multi-level energy balancing management with efficient intelligent air/liquid cooling systems ensuring full lifecycle protection

Topology



| Product Name | 2.5MW/5MWh Integrated AC and DC Energy Storage System | |
|--|---|--|
| AC-side | | |
| Rated AC Output Power | 2500kVA | |
| Max. AC Output Power | 2750kVA | |
| Max. Output Current | 2510A | |
| Number of AC Input | 12 | |
| Rated Output Voltage | 690V | |
| Grid Type | 3P+PE | |
| AC Grid Frequency | 50Hz(45Hz~55Hz) | |
| Grid Voltage Range | 586.5V~759V | |
| Power Factor | >0.99(Rated Power) | |
| Adjustable Reactive Power Factor Range | -1~+1 | |
| AC Current Distortion Rate | <3%(Rated Power) | |
| Isolation Method | Non-isolated | |
| DC-side | | |
| Cell | LFP 3.2V/314Ah | |
| System Battery Configuration | 12P416S | |
| Battery Rated Capacity | 5015.96kWh | |
| Battery Voltage Range | 1123.2V~1497.6V | |
| System Parameters | | |
| Dimensions (W x H x D) | 6058×2896×2438mm | |
| Weight | ≤48T | |
| IP Level | IP54 | |
| Corrosion-proof Grade | C5 | |
| Operating Temperature Range | -30°C~60°C | |
| Operating Humidity Range | 0%~95%(No Condensation) | |
| Max. Operating Altitude | 4000m | |
| Cooling Method | Liquid Cooling | |
| Fire Protection System | Flammable Gas Detection + Active Ventilation + PACK-Level Fire Protection (optional) + Water Firefighting | |
| System Communication Interface | LAN | |
| External System Communication Protocol | ModbusTCP、IEC61850 | |
| Certification | GB/T-34120、GB/T-44026、UL9540A、IEC62619-2022、IEC63056-2020、IEC/EN62477-1-2023、IEC62933-1-2024、UL1973-2022、UN38.3、IEC61000-6-2、IEC61000-6-4、EN50549-2 | |

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*If there are any changes to the product size and parameters, the latest information shall prevail without further notice.

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