

5MW-10MWh-2h/5MW-20MWh-4h Centralized Liquid-Cooled Energy Storage System



Flexible Solutions

- Supports multiple battery system configuration options to meet long-duration charging and discharging needs
- Modular design enables convenient and efficient maintenance operations in later stages
- Supports side-by-side and back-to-back layouts, reducing project footprint by 40%

Long Lifespan

- Full system cycle life exceeding 8,000 cycles
- Multi-level energy balancing management, efficient intelligent air-cooling, and liquid-cooling systems ensure full lifecycle protection

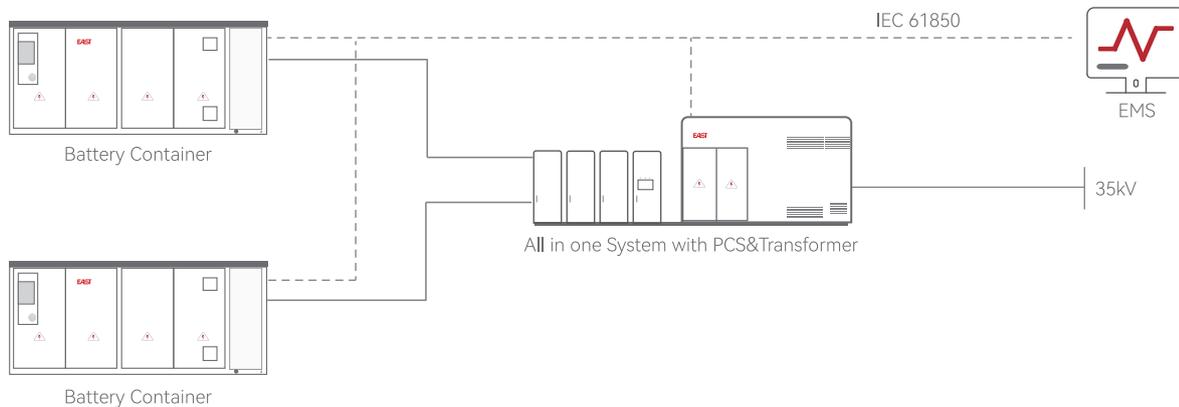
High Reliability

- PACK-level IP67 and cabinet-level IP54 rating, resistant to harsh operating environments
- Adopts three-level fire control linkage strategy, with the whole unit reaching IP54 protection class
- Supports operation at a maximum altitude of 4000 meters

High Efficiency

- 314Ah large PACK design reduces levelized cost of electricity (LCOE) by over 16%
- Efficient liquid-cooling system enhances both battery lifespan and system discharge capacity
- Prefabricated containerized system delivery shortens construction time by 30%

Topology



Product Specifications	5MW/10MWh	5MW/20MWh
DC-side		
Cell type	3.2V/314Ah	
System Battery Configuration	416S1P×12×2	416S1P×12×4
Battery Rated Capacity	10031.92kWh	20063.84kWh
Battery Voltage Range	1164.8V~1497.6V	
The AC-side PCS parameters		
AC-Side Rated Power	5000kVA	
AC-Side Voltage Distortion Rate	<3% (rated power)	
DC Component	≤0.5% (rated power)	
AC-Side Rated Voltage	AC690V	
Grid Voltage Range	586.5V~759V	
Power Factor	>0.99 (rated power)	
Reactive Power Adjustable Range	-105%~105%	
Rated Grid Frequency	50Hz	
Grid Frequency Range	45Hz~55Hz	
Isolation Method	Transformer Isolation	
Transformer Parameters		
Rated Power	5500kVA	
Voltage Ratio	35kV/0.69kV	
Transformer Connection Group	Dy11	
System Parameters		
PCS&Transformer Dimensions (W x H x D)	9000×3200×3400mm (Dry-type Transformer)	
Battery Container Dimensions (W x H x D)	6180×2896×2438mm (×2)	6180×2896×2438mm (×4)
PCS&Transformer Weight	25T	
Battery Container Weight	≤42T (×2)	≤42T (×4)
IP Level / Corrosion-proof Grade	IP54/C3 (C5 Optional)	
Operating Temperature Range	-30°C~50°C	
Operating Humidity Range	0%~95% (Non-condensing)	
Max. Operating Altitude	4000m (Derated Above 3000m)	
Cooling Method	Liquid Cooling	
Converter Cooling Method	Intelligent Air Cooling	
Fire Protection System	Perfluorohexanone / Water	
System Communication Interface	LAN	
External System Communication Protocol	IEC61850、IEC104、MODBUS-TCP	

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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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