

2.5MW-5MWh-2h/2.5MW-10MWh-4h Liquid-Cooled Energy Storage System



Flexible Solution

- DC-side 20-foot standard container and AC-side standardized containers (35kV 30-foot & 10kV 20-foot) with high integration for convenient transportation
- Supports side-by-side and back-to-back arrangement, reducing the project floor area by over 40%

Grid-Friendly

- Features PQ, VF, SVG, and VSG capabilities, supporting high/low voltage ride-through
- Fast dispatch function, off-grid operation, and "black start" capability
- Supports IEC 61850 protocol and rapid power response

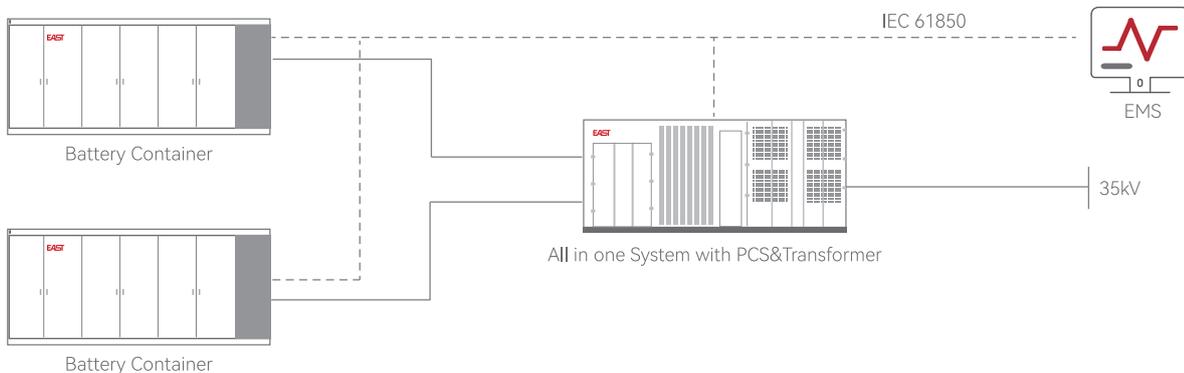
High Reliability

- PACK-level IP67, container-level IP54, and C5 anti-corrosion protection, resilient in harsh environments
- Multi-level active protection system
- Supports intelligent detection of various system faults and temperature runaway protection

High Efficiency

- 314Ah large-capacity cell design, reducing levelized cost of electricity (LCOE) by over 16%
- Efficient liquid cooling system enhances battery lifespan and system discharge capacity
- Prefabricated cabin delivery for the entire system shortens construction time by 30%

Topology



Specification	2.5MW/5MWh	2.5MW/10MWh
DC-side		
Cell type	3.2V/314Ah	
System Battery Configuration	12P416S	12P416S×2
Battery Rated Capacity	5015.9616kWh	10031.92kWh
Battery Voltage Range	1164.8~1497.6V	
Certification	IEC62619、IEC62477、IEC61000-6-2、IEC61000-6-4、IEC63056、IEC62933、UN38.3	
The AC-side PCS parameters		
Rated AC Output Power	2500kW	
Number of DC Input	2	
AC Current Distortion Rate	<3%	
Rated Output Voltage	AC690V	
Voltage Range	586.5V~759V	
Power Factor	>0.99	
Adjustable Reactive Power Range	-105%~105%	
AC Grid Frequency	50Hz(46.5Hz~51.5Hz)	
Isolation Method	Transformer	
Certification	IEC62477、IEC61000、IEC62109	
Transformer Parameters		
Rated Power	2750kVA	
Voltage Range	37±2×2.5%/0.69kV	
Transformer Connection Group	Dy11	
Certification	IEC60076、IEC62271	
System Parameters		
PCS&Transformer Dimensions (W x H x D)	9087×2896×2438mm	
Battery Container Dimensions (W x H x D)	6058×2896×2438mm	6058×2896×2438mm(×2)
PCS&Transformer Weight	20T	
Battery Container Weight	≤44T	≤44T×2
IP Level	IP54	
Corrosion-proof Grade	C5	
Operating Temperature Range	-30°C~50°C	
Operating Humidity Range	5%~95%(No Condensation)	
Max. Operating Altitude	4000m	
Cooling Method	Liquid Cooling(DC)and Smart Air Cooling(AC)	
Fire Protection System	Aerosol + Water Fire + Explosion-Proof Fan	
System Communication Interface	CAN、RS485、LAN	
External System Communication Protocol	Modbus TCP、IEC61850	

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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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