

# 3.34MW-6.7MWh-2h/3.34MW-13.4MWh-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

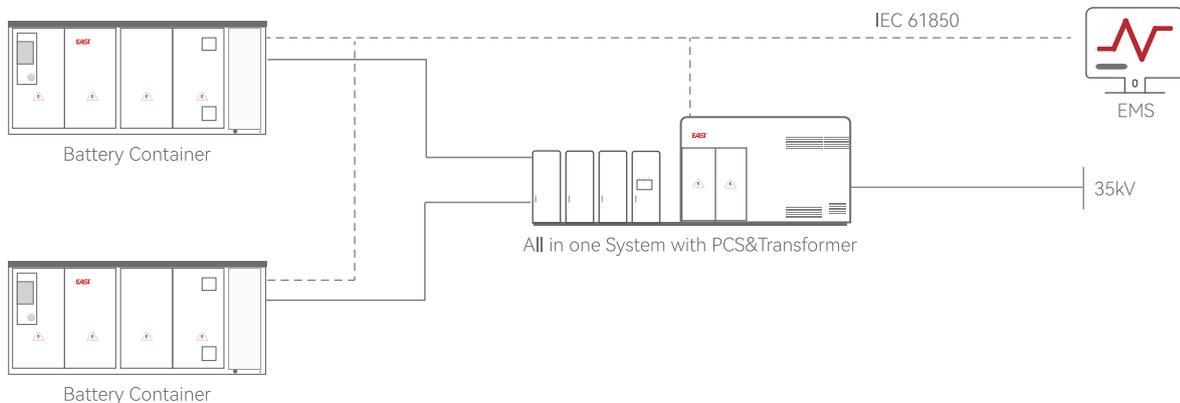
## High Reliability

- 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	3.34MW/6.7MWh	3.34MW/13.4MWh
<b>DC-side</b>		
Cell type	3.2V/314Ah	
System Battery Configuration	416S1P×16	416S1P×16×2
Battery Rated Capacity	6687.94kWh	13375.89kWh
Battery Voltage Range	1123.2V~1476.8V	
<b>The AC-side PCS parameters</b>		
AC-Side Rated Power	3450kVA	
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	
<b>Transformer Parameters</b>		
Rated Power	3800kVA	
Voltage Ratio	35kV/0.69kV	
Transformer Connection Group	Dy11	
<b>System Parameters</b>		
PCS&Transformer Dimensions (W x H x D)	6800×3100×3000mm (Dry-type Transformer)	
Battery Container Dimensions (W x H x D)	8000×2896×2438mm	8000×2896×2438mm (×2)
PCS&Transformer Weight	18T	
Battery Container Weight	≤54T	≤54T (×2)
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	

## East Energy Storage Technology Co., Ltd.

EAST Group : No.1, 5th Road, Songshan Lake Headquarters, Dongguan City, Guangdong Province

Xi'an R&D Center: No. 70 Jinye Road, High tech Zone, Xi'an City, Shaanxi Province



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

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