

2.5MW-5MWh-2h

Immersion Liquid-Cooled Energy Storage System



Flexible Solutions

- Centralized energy storage solution with higher power density
- Modular design of battery cabinets enables easy and efficient post-operation maintenance

Safe and Reliable

- PACK-level immersion-type liquid cooling safety solution significantly enhances energy storage safety performance
- Supports intelligent detection of multiple system faults, as well as detection and protection functions against thermal runaway

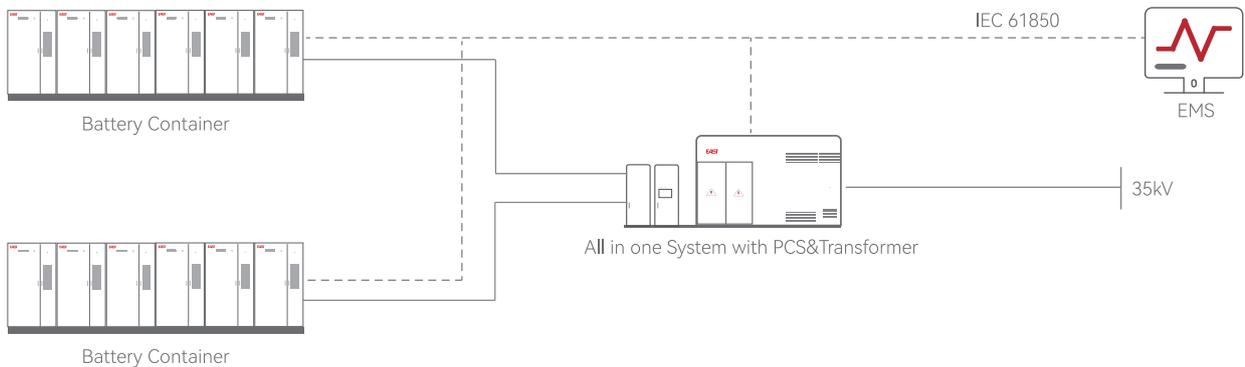
Grid-friendly

- The product features primary frequency regulation and inertia support functions, flexibly meeting the operational demands of the power grid
- Supports the IEC 61850 protocol and rapid power response capability

Intelligent & High-Efficiency

- Highly efficient and intelligent liquid cooling temperature equalization control with a temperature difference of less than 2°C
- Three-level topology with a maximum conversion efficiency of 99%

Topology



Product Specifications	2.5MW/5MWh
DC-side	
Cell type	3.2V/314Ah
System Battery Configuration	416S1P×12
Battery Rated Capacity	5016kWh
Battery Voltage Range	1040V-1498V
The AC-side PCS parameters	
AC-Side Rated Power	2500kVA
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	2750kVA
Voltage Ratio	35kV/0.69kV
Transformer Connection Group	Dy11
System Parameters	
PCS&Transformer Dimensions (W x H x D)	6800×3100×3000mm (Dry-type Transformer)
Battery Container Dimensions (W x H x D)	10800×2690×3640mm
PCS&Transformer Weight	17T
Battery Container Weight	54T
IP Level / Corrosion-proof Grade	IP54/C3 (C5 Optional)
Operating Temperature Range	-20°C~50°C (>45°C Derating)
Operating Humidity Range	0%~95% (Non-condensing)
Max. Operating Altitude	5000m (Derated Above 4000m)
Cooling Method	Immersion Liquid Cooling
Converter Cooling Method	Intelligent Air Cooling
Fire Protection System	Electrical Compartment Aerosol & Full Cabinet Water Fire Suppression
System Communication Interface	LAN、Fiber Optic
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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