

3.34MW-6.7MWh-2h

# String-type Liquid-Cooled Energy Storage System



## Flexible Solutions

- The string-type energy storage solution enables battery cluster-level management
- It supports a parallel and cascadable layout, reducing single-unit footprint by over 30%
- With a modular design, it ensures convenient and efficient later-stage maintenance and operation

## Grid-friendly

- The product features primary frequency regulation and inertia support functions, flexibly meeting grid operation requirements
- It supports the IEC61850 protocol and rapid power response capability

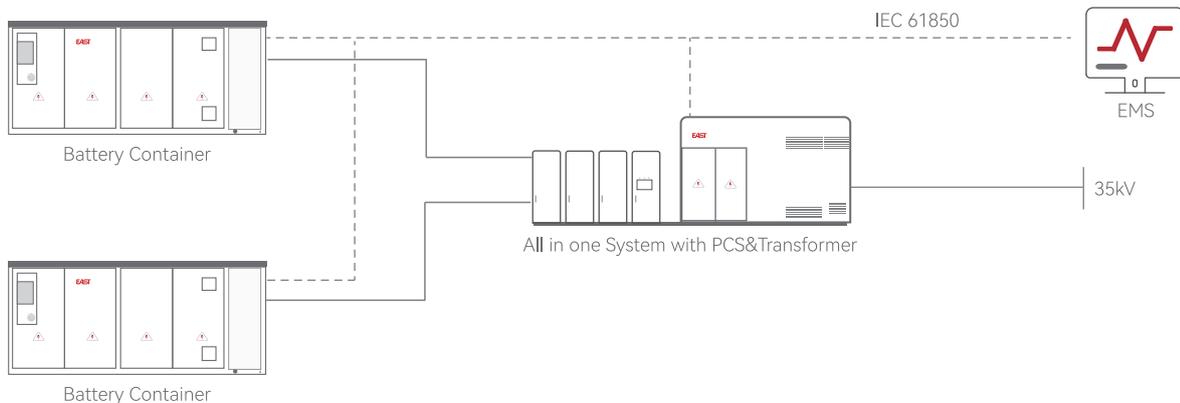
## High Reliability

- Core modules feature IP66 high protection and C5 corrosion protection, withstanding various harsh environments
- 250kA short-circuit capacity on the DC side with ms-level breaking capability
- Features intelligent detection of various system faults, as well as detection and protection against thermal runaway

## Intelligent & High-Efficiency

- Features high-efficiency and intelligent liquid cooling temperature equalization control, with a temperature difference of less than 3°C
- Adopts a three-level topology with a maximum conversion efficiency of 99%
- Enables intelligent automatic fluid replenishment, reducing the need for manual fluid replenishment

## Topology



Product Specifications	3.34MW/6.7MWh
<b>DC-side</b>	
Cell type	3.2V/314Ah
System Battery Configuration	416S1P×16
Battery Rated Capacity	6687.94kWh
Battery Voltage Range	1164.8V~1497.6V
<b>The AC-side PCS parameters</b>	
AC-Side Rated Power	3350kVA
AC-Side Voltage Distortion Rate	<3% (rated power)
DC Component	≤0.5% (rated power)
AC-Side Rated Voltage	AC660V
Grid Voltage Range	561V~726V
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/0.66kV
Transformer Connection Group	Dy11
<b>System Parameters</b>	
PCS&Transformer Dimensions (W x H x D)	8500mm×3100mm×3000mm (Dry-type Transformer)
Battery Container Dimensions (W x H x D)	8710×2896×2600mm
PCS&Transformer Weight	18T
Battery Container Weight	≤60T
IP Level / Corrosion-proof Grade	IP54/C3 (C5 Optional)
Operating Temperature Range	-30°C~60°C (>45°C Derating)
Operating Humidity Range	0%~95% (Non-condensing)
Max. Operating Altitude	4000m (Derated Above 2000m)
Cooling Method	Liquid Cooling
Converter Cooling Method	Intelligent Air Cooling
Fire Protection System	Perfluorohexanone / Water
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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