

Utility Energy Storage System

2.5MW/5-10MWh

Centralized ESS



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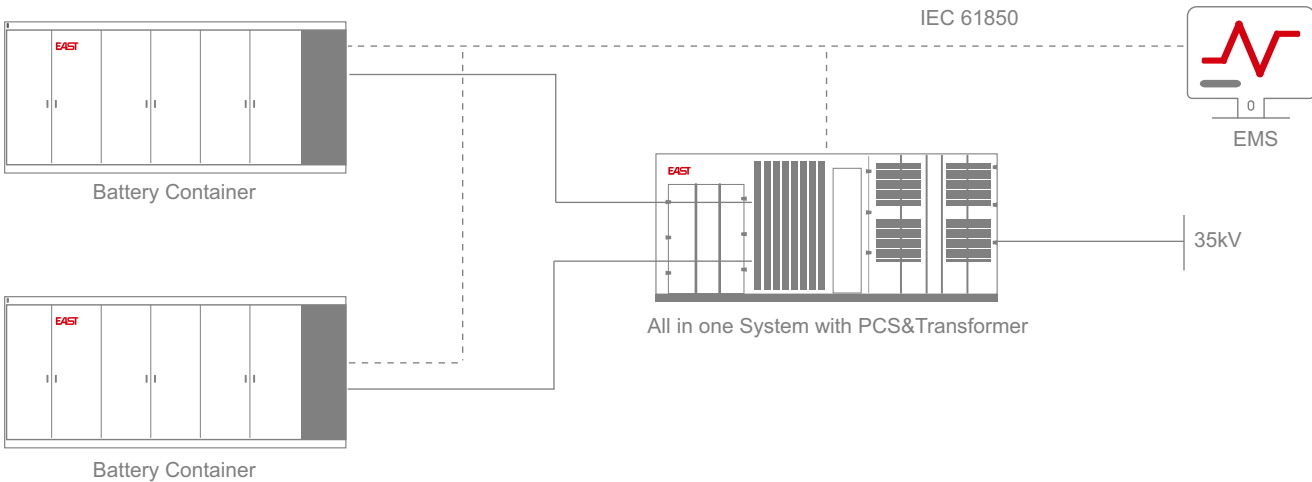
PACK 1P104S design, 20-foot standard container, supports side-by-side and back-to-back arrangement, saving the project's footprint by 40%
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314Ah large-capacity battery cells, reduces LCOE by 16%+
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Protection level of PACK is IP67. Protection level of container is IP54. The anti-corrosion level C5 can withstand the challenges of harsh environments
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Three-level topology structure, maximum efficiency ≥99%, superior electrical energy quality

Topology



Specification

MODEL	2.5MW/5MWh		2.5MW/10MWh	
DC-side parameters				
Cell type	3.2V/314Ah			
System battery configuration	12P416S		12P416Sx2	
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	586.5~759V			
Power factor	>0.99			
Adjustable reactive power range	-105%~105%			
AC grid frequency	50Hz(46.5~51.5Hz)			
Isolation method	Transformer			
Certification	IEC62477, IEC61000, IEC62109			
Transformer parameters				
Rated power	2750kVA			
Voltage range	37±2x2.5%/0.69kV			
Transformer connection group	Dy11			
Certification	IEC60076, IEC62271			
System parameters				
PCS&Transformer dimensions (W×H×D)(mm)	9087x2896x2438			
Battery container dimensions (W×H×D)(mm)	6058x2896x2438		6058x2896x2438x2	
PCS&Transformer weight	20T			
Battery container weight	≤44T		≤44Tx2	
Protection degree	IP54/C5			
Operating temperature range	-30~50℃			
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			