2.5MW/5-10MWh Centralized Energy Storage System

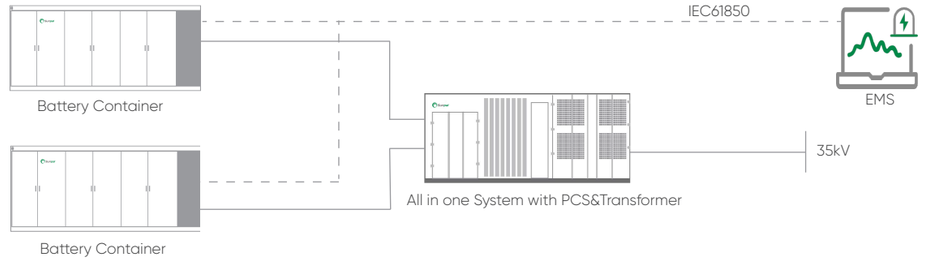
Product Advantages

- PACK 1P104S Design, 20-foot Standard Container
- 314Ah Large-capacity Battery Cells, reduces LCOE by 16%+
- Supports side-by-side and back-to-back arrangement, saving the project's footprint by 40%.
- Protection level of PACK is IP67. Protection level of Container is IP54. The anti-corrosion level C5 can withstand the challenges of harsh environments.
- Three-level Topology Structure, Maximum Efficiency ≥99%, Superior Electrical Energy Quality.

Applicable Scenarios

- Energy Storage Allocated by New Energy
- Frequency Modulation Service
- Independent Energy Storage
- C&I

Topology



Specification	2.5MW/5MWh	2.5MW/10MWh
DC-side		
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 x H x D)	9087x2896x2438mm	
Battery Container Dimensions (W x H x D)	6058x2896x2438mm	6058x2896x2438mmx2
PCS&Transformer Weight	20T	
Battery Container Weight	≤44T	≤44Tx2
Protection Degree	IP54/C5	
Operating Temperature Range	-30~50°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	