

Utility Energy Storage System

2.5MW/5MWh

Integrated AC+DC ESS



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The modular PCS solves the circulating current between battery racks
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The discharge amount of the whole life cycle is increased by 6~8%, LCOE reduced by 3%~5%
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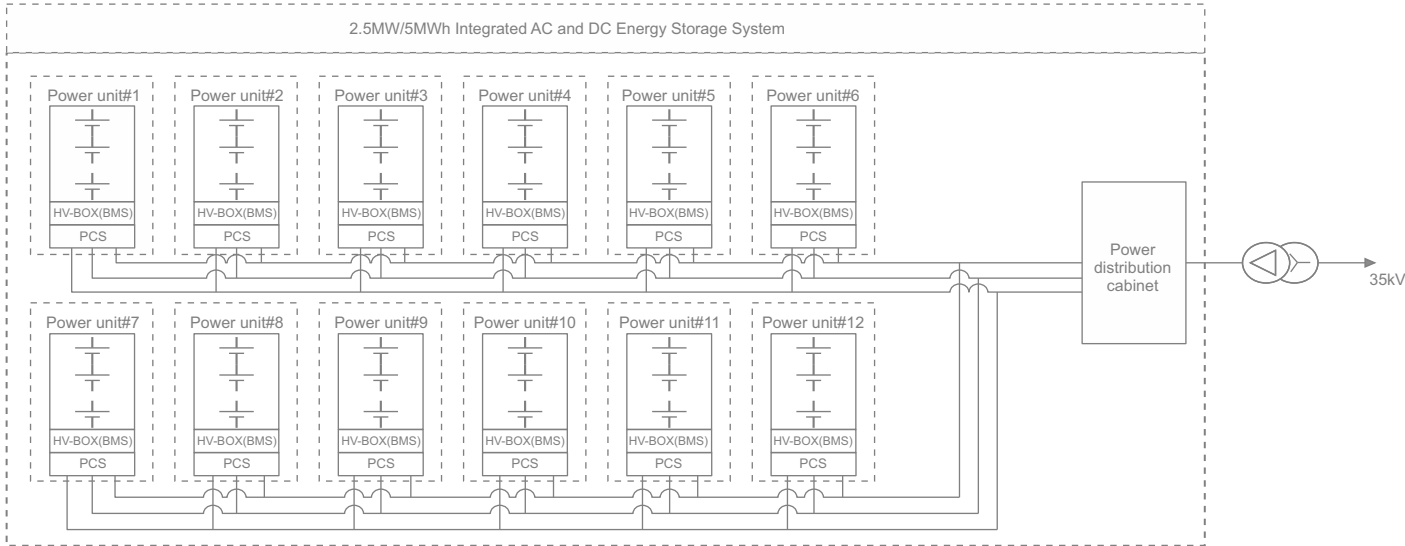
20' standard container
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It increases energy density by 18%
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It reduces the footprint by 30%
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It reduces O&M time by 20%

Topology



Specification

MODEL	2.5MW/5MWh Integrated AC and DC Energy Storage System	
AC-side		
Rated AC output power	2500kVA	
Max. AC output power	2750kVA	
Max. output current	2510A	
Number of AC input	12	
Rated output voltage	690V	
Grid type	3P+PE	
AC grid frequency	50Hz(45Hz~55Hz)	
Grid voltage range	586.5V~759V	
Power factor	>0.99(rated power)	
Adjustable reactive power factor range	-1~+1	
AC current distortion rate	<3%(rated power)	
Isolation method	Non-isolated	
DC-side		
Cell	LFP 3.2V/314Ah	
System battery configuration	12P416S	
Battery rated capacity	5015.96kWh	
Battery voltage range	1123.2V~1497.6V	
System parameters		
Dimensions(W×H×D)(mm)	6058x2896x2438	
Weight	≤48T	
Protection degree	IP54	
Operating temperature range	-30℃~60℃	
Operating humidity range	0%~95%(No condensation)	
Max. operating altitude	4000m	
Cooling method	Liquid cooling	
Fire protection system	Flammable gas detection+active ventilation+PACK-level fire protection(optional)+water firefighting	
System communication interface	LAN	
External system communication protocol	Modbus TCP, IEC61850	
Certification	GB/T-34120, GB/T-44026, UL9540A, IEC62619-2022, IEC63056-2020, IEC/EN62477-1-2023, IEC62933-1-2024, UL1973-2022, UN38.3, IEC61000-6-2, IEC61000-6-4, EN50549-2	