5MWh

Liquid-Cooled ESS Container

Ultra Safety

Dynamic temperature regulation and independent battery compartment design for enhanced protection

Compact Design

Integrated design for larger battery capacity and smaller footprint

Non-walk-in Design

Maximized space usage delivers higher energy density for easy installation and maintenance

Intelligent Operations & Maintenance

Cloud-based remote monitoring and intelligent management for less energy losses and higher efficiency

Application Scenarios:

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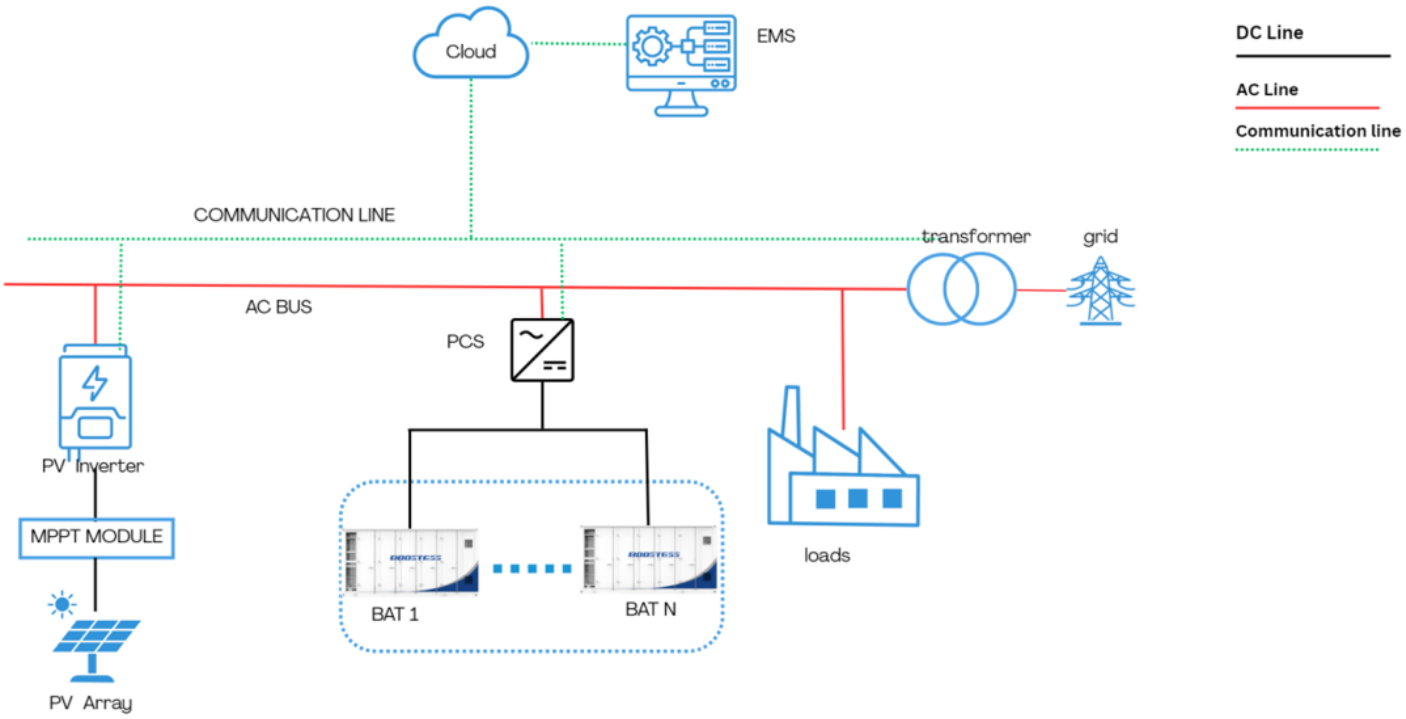

DC SIDE

DC Parameter			
DC rated voltage	1331.2 V	Battery pack type	314 Ah / 332.8 V
DC voltage range	1164.8~1497.6 V	Battery cluster type	314 Ah / 1331.2 V
Pack structure	12P416S	Rated energy capacity	5015 kWh
Cell type	LFP 314 Ah		

AC SIDE

On-grid Output features			
Maximum DC voltage	1500Vdc	Maximum DC current	2806A
DC operating voltage range	1000~1500 Vdc	Auto-buffering	Support
AC Parameter			
Rated output power	2500kW	Allowed grid voltage range	-15%~10%(range is configurable)
Maximum Output power	2750kVA	Rated grid frequency	50Hz/60Hz(configurable)
Rated on-grid voltage	690Vac	Maximum output current	2301A
Reactive power adjustable range	-105%-105%	THDi	<3%（output rating）
Power factor/adjustable range	>0.99 Rated output power: -1 (leading) to 1 (lagging)		
Off-grid output features			
Rated output voltage	690Vac	Voltage distortion(THDu)	<2%(linear load)
Output voltage accuracy	1%	Rated output frequency	50Hz/60Hz(Settable)
Maximum output current	2301A	Overload capacity	110% overload

	Efficiency
Maximum efficiency	99.03%
	General parameters
Isolation transformer	Not available
Dimensions	1000×2450×1400mm
Weight	1900kg
Ingress Protection	IP65
Cooling method	Smart liquid cooling
Maximum working altitude	5000m(>3000m derate)
Working ambient temperature	-35℃~60℃(>45℃ derate)
Working ambient humidity	0~100%(non-condensing)
Display	LED
Communication protocol	Modbus-RTU/Modbus-TCP/IEC61850/IEC104
Communication mode	RS485/CAN/Ethernet
Certification	GB/T 34120,IEC62477,EN61000,EN62116

GENERAL

	General
Cooling method	Liquid Cooling
Operation temperature range	-20℃-55℃
Storage temperature range	-20℃-60℃
Operation humidity range	0-95% (no condensing)
Charge & discharge rate	0.5P/0.5P
Max. Operating altitude	≤4000m (degraded above 2000m)
Dimensions (W×H × D)	6096*2438*2896 mm
Container weight	43 tons
Protection level	IP55
Configuration of safety	Aerosol Fire Extinguisher, Water
Communication interface	CAN, RS485, Ethernet
Communication protocol	Modbus TCP/RTU, IEC 104, IEC 61850
Certificates and approvals	IEC61000,IEC62619,IEC62477,IEC63056, UL9540A
Units expansion	On-grid :up to 10 units in parallel Off-grid: up to 6 units in parallel