3.35MW-6.7MWH
String-type liquid-cooled energy storage system

The 3.35MW-6.7MWH string liquid-cooled energy storage system focuses on safety, with a prefabricated compartment design that effectively separates the battery compartment from the electrical compartment. At the same time, the system adopts the string connection method to enhance the safety of the overall system. On the power generation side, it can be used for energy time-shifting, system frequency regulation and renewable energy grid integration. In the power generation side, it can be used in important areas such as energy time shift, system frequency regulation, and grid connection of renewable energy.

High security

- Selection of lithium iron phosphate batteries with high thermal stability
- Protection class IP54 for outdoor applications
- Prevention-oriented fire protection strategy with independent fire protection systems

Highly intelligent

- One cluster, one management, high utilization rate of electric core
- Cluster-level active equalization, higher charge/discharge capacity
- Cloud-side collaboration to support full-scenario online monitoring and scheduling

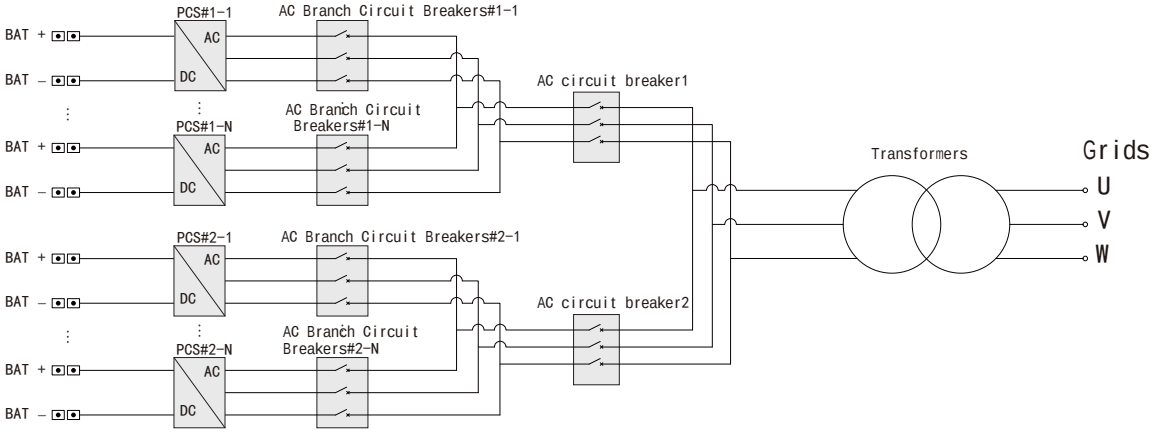
High integration

- Non-walk-in/modular highly integrated design, 1500V systems
- Separate design of electrical and battery, easy to access.
- Prefabricated cabin installation solutions to reduce on-site installation costs and commissioning time

High reliability

- High-quality battery cells, with a cycle life of more than 6,000 cycles under standard working conditions.
- Efficient thermal management design and active fire protection system for system safety

Circuit block diagram



CE RoHS CB IP66 UL UN38.3

Technical Parameters

Battery pack	
Arrangement type	single arrangement
Cell Capacity(Ah)	280
Battery Module Combination Method	1P52S
Battery Cluster Combination Method	1P416S
Magnification	0.5P
Energy rating(kWh)	372.7
Nominal voltage(V)	1331.2
Operating voltage range (V)	1164.8~1518.4
Weights(kg)	3250
Battery compartment systems	
Energy rating （kWh）	3354
Cooling method	Liquid cooling
Protection class	IP66
Dimensions(W*D*H)mm	6092*2438*3300
Weights （kg）	35000
Fire protection system	Fire protection system PACK level fire protection + water fire protection + combustible gas detection + explosion relief design
Distributed Energy Storage Converters	
Rated power （kW）	186
DC voltage operating range （V）	1000-1500
Alternating current （V）	690
Rated current （A）	139
Power factor at rated power	>0.99
Maximum efficiency	99%
Dimensions (L*H*W)mm	550*250*620
Weights （kg）	65
PCS Variable Flow Integrated Chamber System	
Rated voltage of AC side	690V
combinatorial approach	18 units *186kW in parallel
Reactive power response time	≤25ms
Maximum conversion efficiency	≥0.99
Power Response Speed	< 20ms
Charge/discharge conversion time	< 50ms
Dimensions (L*W*H)mm	6500*2700*3100
Weights	65kg
Shell protection grade	IP66