

1.2~2.4MWh On-grid Liquid-cooled ESS

1.2~2.4MWh On-grid Liquid-cooled ESS is integrated with lithium iron phosphate (LFP) batteries, supporting parallel operation of multiple units. It combines high energy efficiency, long lifespan, safety redundancy and cost-effectiveness, and is specifically optimized for industrial and commercial energy storage as well as small and medium-sized grid-side applications, office buildings, data centers, solar charging stations and other fields, effectively reducing electricity costs and improving energy efficiency.



■ Product Features

Smart and friendly

- Real-time status monitoring and fault recording to achieve early warning and post-fault analysis
- Access to the cloud platform to support multi-device access and multi-user sharing

Safe and reliable

- PACK-level immersion fire protection technology
- Multiple circuit protection from short circuit, overvoltage, undervoltage, overload and overcurrent

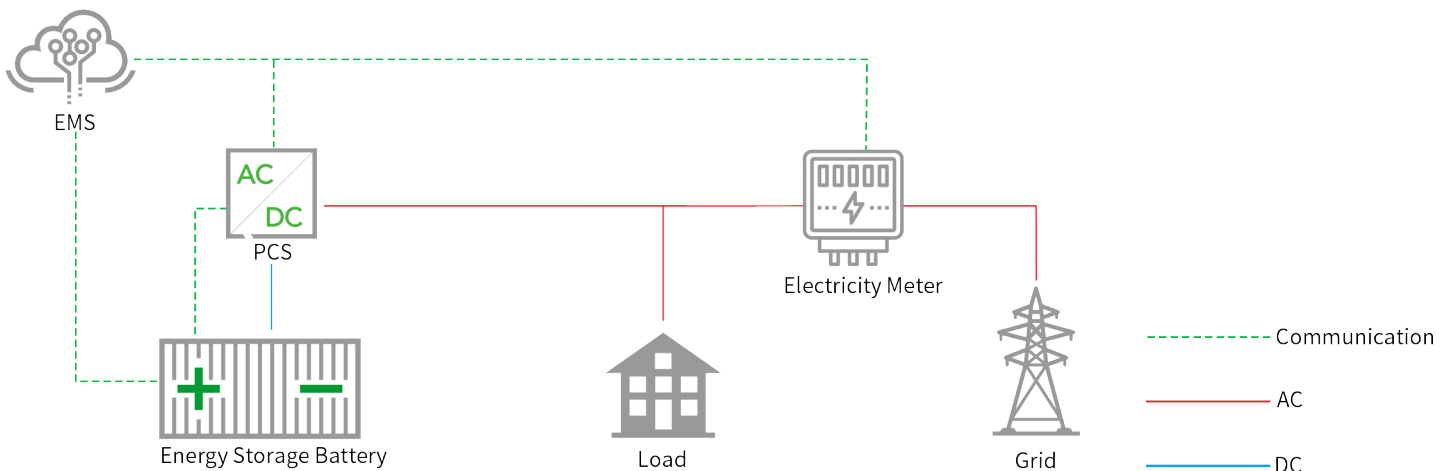
Efficient and flexible

- Intelligent parallel control technology, supports unlimited capacity expansions
- Highly integrated, pre-assembled system, easy to transport and maintain

Powerful performance

- Supports diversified application scenarios
- Supports long-term 110% overload use

■ Product Topology Diagram



■ Technical Specification

| | | BATT-GS-xxx/yyy-L ¹ | | | | | |
|------------------------------|--|--------------------------------|------------|------------|------------|------------|--|
| MODEL | 500/1205 | 600/1446 | 700/1688 | 800/1929 | 900/2170 | 1000/2411 | |
| Application Scenarios | On Grid | | | | | | |
| BATTERY PARAMETER | | | | | | | |
| Cell Type | LFP3.2V/314Ah | | | | | | |
| Battery Module | 48S1P/48.23kWh | | | | | | |
| System Battery Configuration | 240S5P | 240S6P | 240S7P | 240S8P | 240S9P | 240S10P | |
| Nominal Voltage | 768V | | | | | | |
| Voltage Range | 648~864V | | | | | | |
| Battery System Capacity | 1205.75kWh | 1446.90kWh | 1688.05kWh | 1929.20kWh | 2170.35kWh | 2411.50kWh | |
| Charge/Discharge Rate | 0.5P | | | | | | |
| Cycles Life | 7000 | | | | | | |
| AC OUTPUT PARAMETER | | | | | | | |
| Nominal Power | 500kW | 600kW | 700kW | 800kW | 900kW | 1000kW | |
| Nominal Voltage | 400V | | | | | | |
| Nominal Current | 722A | 866A | 1010A | 1155A | 1299A | 1444A | |
| Nominal Frequency | 50Hz/60Hz | | | | | | |
| Power Factor Range | 0.9 leading~0.9 lagging | | | | | | |
| SYSTEM PARAMETER | | | | | | | |
| System Efficiency | 88% | | | | | | |
| Temperature Control Method | Liquid Cooling | | | | | | |
| Fire Fighting System | Perfluorohexanone | | | | | | |
| Operation Temperature | -20~+55°C(>45°C derating) | | | | | | |
| Operation Humidity | 0~95% (Non-condensing) | | | | | | |
| Operation Noise | ≤75 dB(A) @3 m | | | | | | |
| Max. Operation Altitude | 4000m (>2000m derating) | | | | | | |
| Degree of Protection | IP54 | | | | | | |
| Communication Interface | Ethernet | | | | | | |
| Communication Protocol | Modbus TCP/IP | | | | | | |
| Weight | 17T | 21T | 23T | 24T | 25T | 26T | |
| Dimensions(L*W*H) | 6058mm*2438mm*2896mm | | | | | | |
| Certificate/Standard | UN38.3,MSDS,IEC 62619,EN 62477,EN IEC 61000-6-2/EN IEC 61000-6-4,G99,VDE-AR-N 4105, EN 50549-1/EN 50549-10,EN 50549-2,C10/11,TOR,NA/EEA-NE7-CH,AS4777.2,PPDS,NRS 097-2-1 | | | | | | |

*1: The "xxx" in the product model depends on the selected inverter power, and "yyy" depends on the battery capacity. For example, a 500kW inverter with a 1205kWh battery in a liquid cooling system is denoted as "BATT-GS-500/1205-L".