

C2.5S-2089-500-4 Hours

Liquid-cooled energy storage system



* This illustration is for reference only; the actual product appearance may vary depending on configuration.



Optimal Cost

- With a 10-foot design and a weight of less than 20 tons, it is easy to transport and deploy in confined spaces.
- Integrated AC/DC bidirectional inverter to reduce commissioning time



Ultimate Security

- Multi-level electrical protection, fire protection, arc flash analysis, and coordinated protection mechanisms
- Smart battery health management provides early warnings for faulty batteries.
- Complies with the IEEE 693 standard for high seismic resistance ratings



Capacity Enhancement

- Modular design reduces the impact of failures and improves system uptime.
- Active balancing technology and bionic solutions can extend battery life and enhance system discharge capacity.



Convenient operation and maintenance

- Active balancing technology can reduce the operation and maintenance costs of energy storage power stations.
- Fast state detection and fault recording technologies enable rapid localization and analysis of system faults.

Model	C2.5 S-2089-500-4 hours
DC Side Parameters	
Cell type	LFP 3.2 V/314 Ah
Battery Configuration	5P416S
Nominal Energy	2089 kilowatt-hours
Battery Voltage Range	1123.2–1497.6 V
Nominal battery voltage	1331.2 V
Across-Current Side Parameters	
Nominal power	500 kVA
Maximum current THD	<3% (at rated power)
DC component	< 0.5%
Nominal voltage	690 V
Ac Voltage Range	621–759 V
Nominal frequency	50 Hz/60 Hz
Rated current	418.4 A × 3-phase (can operate continuously at 110% of the rated current)
Power factor	≥ 0.99 (at rated power)
Power Factor Range	-1 to +1
System parameter	
Work environment temperature range	-30°C to +50°C (performance degradation at>45°C)
Relative humidity	≤ 100% relative humidity (non-condensing)
Maximum workingheight	2000 m
Levels of protection	IP55
Cooling means	Intelligent Liquid Cooling
Noise	≤ 75 decibels (@1 meter, ambient temperature 35°C)
Weight	≤ 20,000 kilograms
Corrosion resistance level	C4 C5 (Optional)
Earthquake magnitude	IEEE 693 High Earthquake Resistance Certification
Snow load	30 pounds per square foot
Wind load	129 miles per hour
Size (Width × Depth × Height)	2991 mm × 2438 mm × 2896 mm
Fire extinguisher system	Fire control alarm panel, smoke and heat detectors, alarm bells, flashing alarms, gas detectors, ventilation systems compliant with NFPA 69 standards, main ducts equipped with sprinkler systems, aerosol detection devices
CI	Ethernet
Communicating protocol	Modbus-TCP、IEC 104、IEC 61850
Standard Compliance	IEC 62933-5-2、IEC 61000、IEC 62619、IEC 63056、IEC 62477-1、JETGR0004-1-2.1、JETGR0005-1-1.0、JEM_1505、JEAC9701-2024