

Sermatec is a technology company based on power electronic control technology and energy interconnection technology, aiming to ensure the safety and efficiency of energy storage systems.

- Core Team - Years of Experience: **15+**
- Proprietary Intellectual Property Rights: **100+**
- Countries and Regions of Customers: **30+**
- Proportion of R&D Personnel: **70%**

SERLATTICE Series 5MWh Liquid Cooling-Container-Type ESS

SMT-ESS-L20CB-5015CE

The [Serlattice] series liquid-cooled container energy storage system of Sermatec Energy is mainly composed of multiple battery racks, battery management system, liquid cooling system, fire suppression system, auxiliary power distribution system and the enclosure. The battery rack is composed of 4 battery packs and one high voltage box in series, and the battery pack is composed of 104 prismatic aluminum shell lithium iron phosphate battery cells in series.



Product Features

Efficient & flexible

- Efficient liquid cooling & heat dissipation, synchronous improvement of battery life and system discharge capacity
- Modular design, convenient for battery replacement and system supplementation & expansion
- 1500V system, with synchronous improvement of energy density, power density and system efficiency and reduction of system cost

Cost reduction

- Intelligent liquid-cooled temperature control to reduce auxiliary power consumption of the system
- Pre-installation design for easy transportation of energy storage container
- Integral transportation to reduce on-site installation time

Safe and reliable

- PACK-level fire protection, thermal spread control shielding design
- Cell health detection, early warning of sick cells
- Multi-layer thermal insulation & fire protection design



Data Centers



Commercial Premises



Industrial Parks



Area Expansion



Power Generation Side



Grid Side

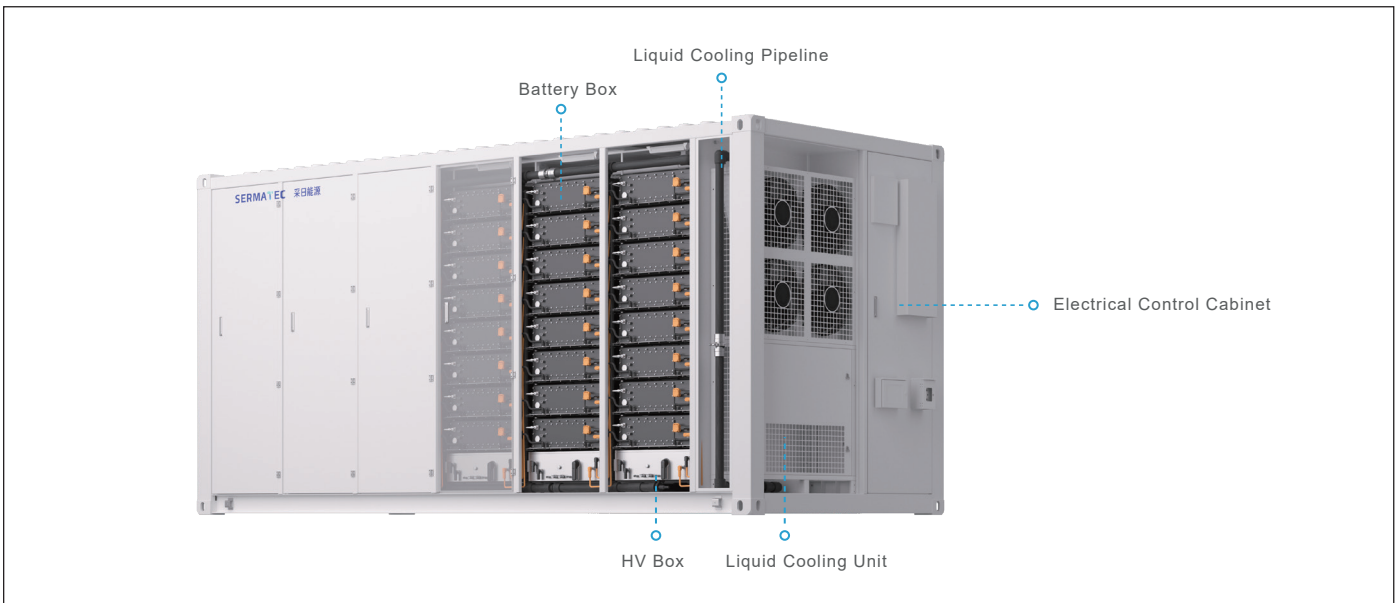
Technical Data

Product Type

SMT-ESS-L20CB-5015CE

Rated Energy (kWh)	5015
Rated Power (kW)	2500
Cooling Type	Liquid Cooling
Battery Cell Type (V/Ah)	3.2/314, LFP
Pack Configuration	1P104S
Rack Configuration	1P416S
Rack Quantity	12
Rated Voltage (V)	1331.2
Voltage Range (V)	1164.8~1497.6
FSS	Aerosol + Water
Dimension (W*D*H) mm	2438*6058*2896
Weight (T)	~42
IP Level	IP55
Working Temperature Range (°C)	-30~55
Altitude (m)	4000
Communication Protocol	Modbus TCP/RTU, Support IEC 61850
Communication Interface	RS485, Ethernet

Structure



Disclaimer: The content of the Manual is for reference only. In case of any change, please refer to the actual product.



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