

Shanghai Sermatec Energy Technology Co., Ltd., established in 2017, is a leading "energy storage-oriented" energy digitalization operator and energy storage equipment solution provider in China. It is a TIER 1 enterprise of global energy storage systems. The company's business covers commercial and industrial, utility energy storage solutions and digital intelligent energy operations (energy asset management and operation, virtual power plant, power trading, green certificate, carbon asset development and trading, etc.) so as to contribute to the realization of the "dual carbon" goal and new power system architecture.

- Core Team – Years of Experience: 20+
- Countries and Regions of Customers: 30+
- Proprietary Intellectual Property Rights: 100+
- R&D Personnel Around: 55%

## SERLATTICE Series 5.015MWh Liquid Cooling Container-Type ESS

SMT-ESS-L20CB-5015CE-S  
SMT-ESS-L20CB-5015CE-C

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

- Separated compartment design for electrical cabin and battery system, reduce the risk of thermal runaway
- Multi-level electrical protection measures
- Aerosol fire suppression+water dry pipe + ventilation system



Data Centers



Commercial  
Premises



Industrial Parks



Augmentation



Power Genera-  
tion Side

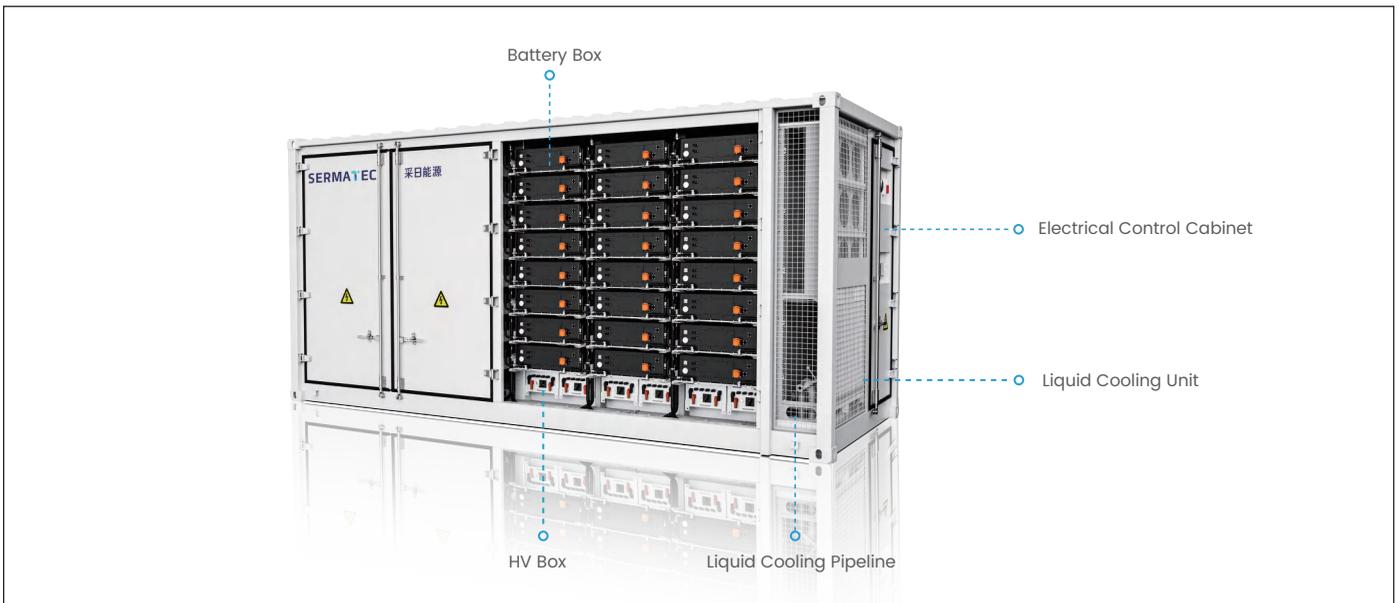


Grid Side

# Technical Data

Product Type	SMT-ESS-L20CB-5015CB-S	SMT-ESS-L20CB-5015CE-C
Rated Energy (kWh)	5015	
Rated Power (kW)	208.99*12	417.99*6
Cooling Type	Liquid Cooling	
Battery Cell Type (V/Ah)	3.2/314, LFP	
Pack Configuration	IP104S	
Grouping Method	1P416S*12	2(1P416S)*6
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)	41	
IP Level	IP55	
Working Temperature Range (°C)	-30~55 (45 Reduction)	
Altitude (m)	4000 (2000 Above Reduction)	
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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