SLBATT®
Best Solution Lithium Battery

C&I LIQUID COOLING ENERGY STORAGE SYSTEM

250kW / 522kWh

All-in-one. Highly Integrated.
Intelligent. Safe & Reliable.



Cells Safety

- 80% Lower Thermal Runaway Risk
- 90% Lower Overcharge Risk
- Cluster-level Battery Management

Environmental Safety

- Pack IP67
- PCS IP20
- System IP55-C3

Electrical Safety

- Battery Pack-Level MSD
- Battery Cluster-Level Fuse + Circuit Breaker
- AC/DC Side Protection

Structural Safety

- Galvanized SGCC Case Construction
- Durable Powder-Coated Finish
- Thickened Base for Enhanced Stability

Fire Safety

- (Pack + Cluster) 2-Level FSS
- Directed Pressure Relief
- Intelligent Fire Safety

Data Safety

- Station-Level Safety Analysis
- Data Cloud Encryption
- IoT Access Control

Model	LC250-522 EP	
Battery Side Parameters		
Cell Type	314Ah/3.2V LFP	
Battery Cluster Rated Voltage	DC832V	
Battery Side Rated Capacity	314Ah*2	
Series / Parallel Configuration	1P*52S*5S	
Battery Side Rated Energy	522.4kWh(261.2kWh*2)	
Battery Side Operating Voltage Range	DC728.0V~910.0V	
Rated Charge / Discharge Current	157A*2	
AC Side Parameters (PCS)		
Rated AC Voltage	AC 400V, 3W+PE/3W+N+PE	
Rated AC Frequency	50/60Hz(±5)	
Rated/Max.AC Power	125kW/137kW	250kW/275kW
Rated/Max.AC Current	180A/200A	360A/400A
Power Factor	-1~+1	
Current THDI	<3%	
Overload Capability	1.1x (continuous)	
Isolation Type	Non-isolated	
Operation Mode	Peak-valley arbitrage, demand management	
Protection	Over-temperature, low-temp charge protection, over-current, short circuit, over/under voltage, DC bus protection	
General Parameters		
Operating Temperature	-20℃~+55℃(derating above 45℃)	
Operating Humidity	10%~90% RH (non-condensing)	
Altitude	3000m	
Installation Method	Floor standing	
Cooling Method	Intelligent Air Cooling + Liquid Cooling	
Fire Protection	Gas fire extinguishing system	
Communication*	RS485, Ethernet, Modbus RTU/TCP	
Protection Rating	IP55	
Dimensions (WxDxH)	1883*1300*2020(±5mm)	
Weight	About 4.7 T	
Warranty	10 years	

Key Benefits

Safe & Reliable
Multi-protection design

High Efficiency
≥87.5% system efficiency

Cost Effective
Lower CAPEX & OPEX

Intelligent Control
Remote operation and maintenance

Applications



Peak Shaving & Demand Management



Renevable Energy Integration



EV Charging Infrastructure

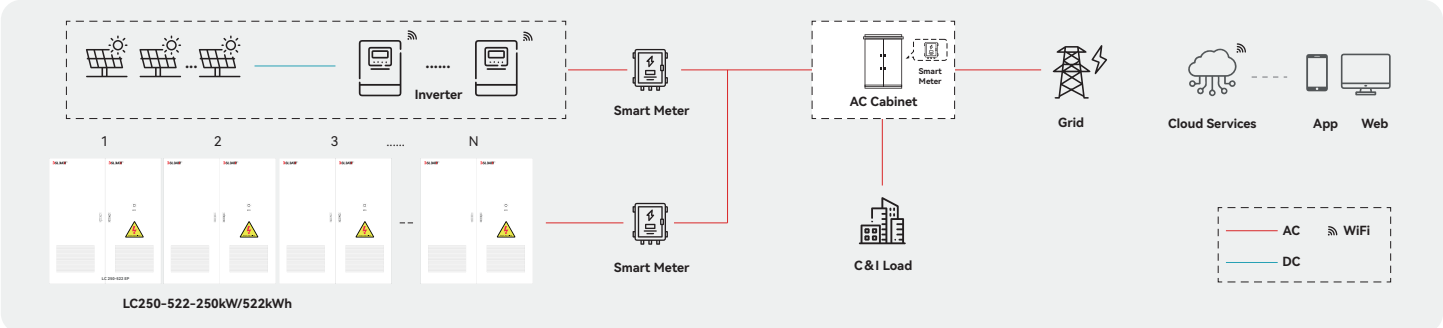


Microgrids & Smart Energy Systems

Typical Application Scenarios

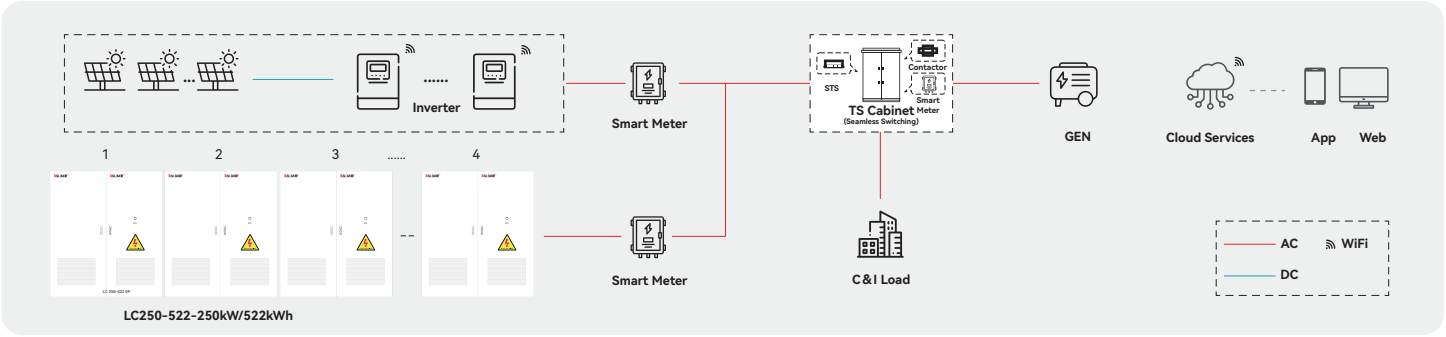
On-grid PV + ESS Solution

Parallel units are based on the capacity of the upstream transformer.



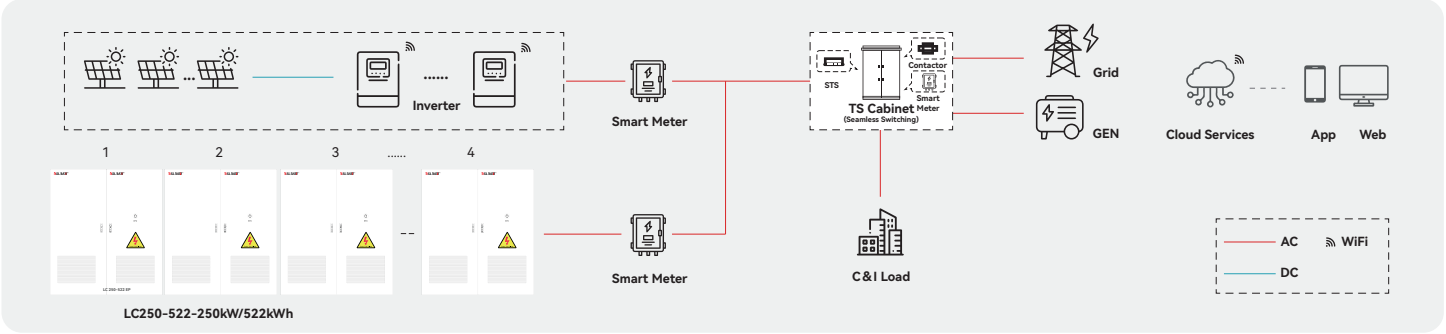
Off-grid PV + ESS Solution

Up to 4 units in parallel



Off-grid PV + ESS Solution

Up to 4 units in parallel (Seamless switching)



Mechanical Drawings(mm)



Operating Conditions

Model	LFP52LC
Battery Configuration	1P52S
Nominal Voltage	DC166.4V
Operating Voltage Range	145.6V~182.0V
Rate Capacity	314Ah
Max. Charge/Discharge Current	186A
Number of Cells	1P52S
Total Energy	52.25kWh
Ingress Protection	IP67
Dimension (W*D*H, mm)	790*1118*250
Weight	340 ± 10kg