

ENERGY STORAGE SYSTEM

-LV SERIES



Industrial Parks · Buildings · Data Centers · Charging Stations

Ultimate Safety

- Incorporating a three-tier fire protection system at the cell, pack, and system levels to ensuring safety.
- Utilizing heat-resistant materials between cells to effectively mitigate thermal runaway risks.

High-Level Integration

- Featuring an “all-in-one” design, with a single cabinet occupying approximately $\approx 1.35\text{m}^2$, reducing space requirements by 26%.
- PCS is downward compatible with PDU, featuring integrated control, protection, and detection, enhancing unit installed capacity by 10%.
- Integrating EMS with BMS, enabling unified aggregation and utilization of energy storage data.

Intelligent Operations Control

- Enabling local energy management functions, such as dynamic demand tracking and control, peak load shifting.
- Facilitating various operational strategies for temperature regulation, fire protection, and PCS.
- Allowing for over-the-air (OTA) upgrades.

High Energy Efficiency

- Maintaining a temperature difference within 5°C at the product level, reducing energy consumption of liquid cooling units by 15%.
- Sustaining energy conversion efficiency above 88% throughout the year.
- Ensuring a cell temperature difference below 2.8°C , a max. temperature rise below 4.5°C , and a max. cell temperature below 35°C , boosting cycle life by 20%.
- Employing AI algorithms for real-time operational strategy adjustments, enhancing system efficiency by approximately $\approx 1\%$.

High Reliability

- Automotive-grade pack production line that guarantees stringent quality control.
- Wide operating temperature range from -30°C to 50°C .
- Resistant to hurricanes of 15 mph and above.
- High corrosion resistance of above C4.

Cost Efficiency

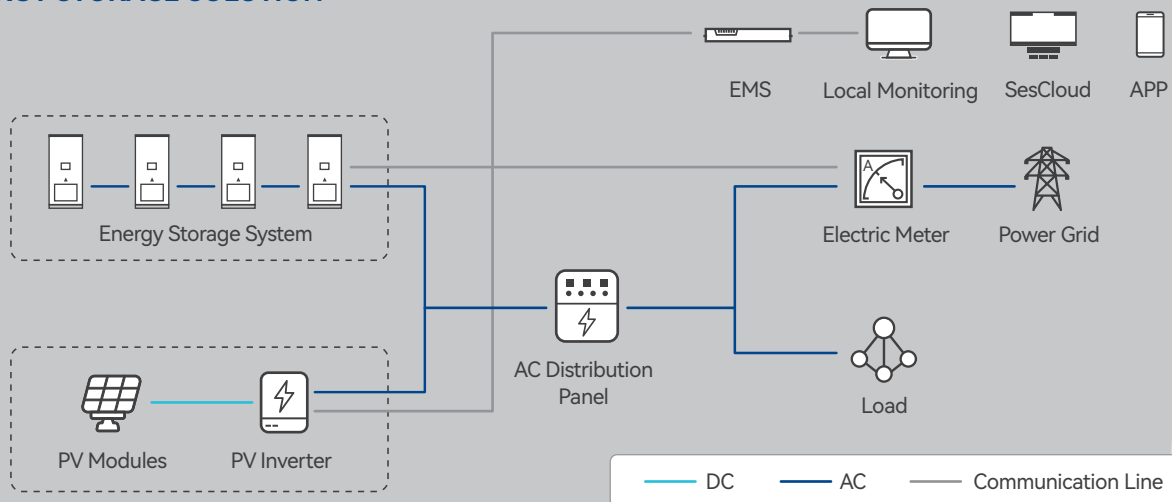
- Incorporating a multi-fusion system design to decrease individual cabinet cost by 8% and shorten the ROI payback period.
- Utilizing lithium iron phosphate battery cells to boost installed energy per unit by 12%.



PRODUCT SPECIFICATIONS

Model	R232L1	R232L2	R261L1	R254L1 PRO	R254L1
Rated Power	100kW	115kW	125kW	125kW	125kW
Rated Energy	232.96kWh	232.96kWh	261.25kWh	254.59kWh	254.59kWh
Single Cell	3.2V 280Ah	3.2V 280Ah	3.2V 314Ah	3.2V 306Ah	3.2V 306Ah
Battery Pack	1P260S	1P260S	1P260S	1P260S	1P260S
DC Voltage	728V~936V	728V~936V	728V~936V	728V~936V	728V~936V
Rated AC Voltage	380V	380V	380V	380V	380V
Rated Output	152A	175A	190A	190A	190A
Protection Grade	IP54	IP54	IP54	IP54	IP54
Thermal Management Technology	Smart liquid cooling	Smart liquid cooling	Smart liquid cooling	Smart liquid cooling	Smart liquid cooling
Dimensions (W*D*H)	1350×1310×2110mm	1007×1350×2250mm	1007×1350×2250mm	1007×1350×2250mm	1007×1350×2250mm
System Efficiency	87%	89%	88%	90%	89%
Max. Efficiency	88%	90%	89%	91%	90%
Weight	≈2600kg	≈2350kg	≈2650kg	≈2650kg	≈2650kg
Design Life	15 years	15 years	15 years	15 years	15 years

ENERGY STORAGE SOLUTION



HANGZHOU CHANGSHA JIANGXI · CHINA

Lisiner. All Rights Reserved.



ABOUT LISINER