

Smart261L

CE IEC UN38.3

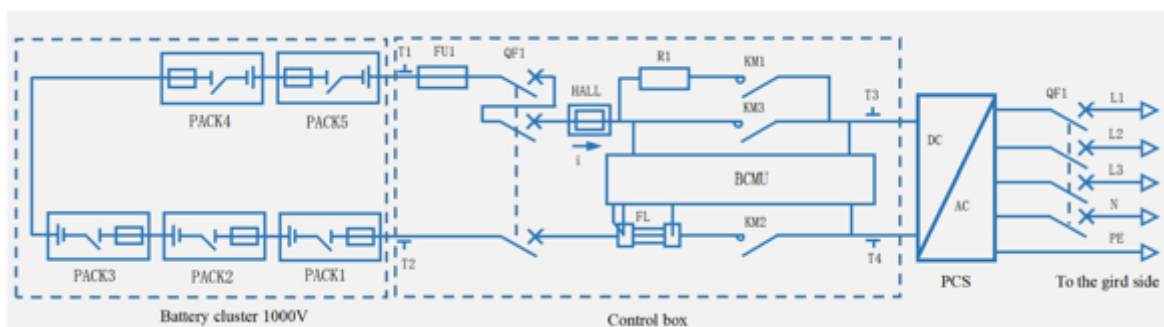
Liquid-Cooled Energy Storage System



• Features

- **Advanced Liquid-Cooling System**
Equipped with an intelligent liquid-cooling temperature control system that maintains a cell temperature difference within $\leq 2.5^{\circ}\text{C}$, ensuring thermal consistency and extending battery lifespan.
- **Certified Safety & Reliability**
Fully compliant with IEC and UN safety standards, having passed multiple rigorous tests to guarantee safe and reliable operation.
- **Scalable Power Capacity**
Easily expandable in parallel to support a wide power range from 125 kW to 1.25 MW, adapting to various project sizes.
- **Factory Prefabricated & Easy to Deploy**
Delivered as a fully prefabricated unit in standard shipping containers (by sea or road), significantly reducing transportation, installation, and commissioning costs.
- **Smart Operation & Maintenance**
Features real-time local diagnostics, automated fault detection, one-click startup, and seamless grid connection, minimizing on-site O&M workload.
- **Intelligent Battery Management**
Uses an AI-driven balancing strategy and early-warning system to maintain battery consistency throughout its full life cycle.
- **High Protection Rating**
Designed with IP65 protection for the liquid-cooled battery PACK and IP54 for the cabinet, ensuring durability in harsh environments.
- **Versatile Application Support**
Suitable for various use cases, including peak shaving, backup power, and other energy storage scenarios.

• Electrical Diagram



• Technical Parameter

Smart261L CE Liquid-Cooling C&I ESS (EU Standard Version)	
DC Parameters	
Cell Type	LFP-3.2V-314Ah
Battery Pack	52.25kWh *5
Rated Battery Capacity	261.25kWh
Rated Voltage	832VDC
Voltage range	728~936
Charge/discharge ratio	≤0.5CP
Sub-Control Box	DC1500V 200A
Cooling mode	Smart Liquid-Cooling
AC Parameters	
Rated power	125kW
Rated Grid Voltage	400V (-10%~10%)
Rated Current	180A
Rated Grid Frequency	50Hz/60Hz
Grid Frequency Range	45~55Hz/55~65Hz
THDi	< 3% (Rated power)
Power Factor	> 0.99 (Rated power)
Power Factor Adjustable Range	-1 (ahead) ~1 (lag)
AC off-grid Voltage	400V (-5%~5%)
System Parameter	
Fire Safety System	Two-Stage Aerosol Fire Module + Temperature, Smoke, Combustible Gas Sensors + Pressure Relief Valves + EU Standard Storz (DN65) Fire Hydrant Connection
Noises	≤75db
Anti-corrosion grade	C4
Protection Rating	IP54 (IP55 on DC Compartment)
Operating Temperature	-20°C ~ 45°C
Storage temperature	-20°C ~ +35°C (≤6 months) -20°C ~ +45°C (≤1 months)

Operating humidity	0 ~ 95%RH (non-condensing)
Installation method	Outdoor
Dehumidification Capacity	700ml/24h
Dehumidifier Power	65W
Operating condition	Max. 2 cycles per day
System communication interface	Ethernet
communication protocol	Modbus TCP/IEC104
Altitude	< 4000m (>2000m derate)
Dimensions (D*W*H)	1350*1326*2080mm
Weight	2490+5% kg
Certification	Cell: UN38.3, IEC62619, UL1973, UL9540A Battery System: UN38.3, IEC62619, IEC60730, IEC61000 Cabinet: UN3480, IEC EN 61000-6-2/-4 (EMC), IEC62477-1 (LVD), IEC62619, IEC60730 PCS: IEC61727/IEC62116 Grid: EN50549- 1/-2 + Netherlands, EN50549- 2 + C10/11, EN 50549-1/-10+France, EN50549- 1 + Czech, EN50549 + Sweden, G99, VDE 4105/VDE 4110/4120, UNE RD1699/244/647 NTS, TOR type A+R25

*While we strive to provide the most accurate and up-to-date information, product specifications are subject to change without prior notice.