

All-in-one Liquid-cooled ESS Cabinet

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The LFEI series liquid-cooled industrial and commercial power supply system adopts a modular design concept, integrating energy storage converters, lithium battery systems, and energy management systems. It provides a high-performance, long-life, and high-safety integrated smart energy storage solution for industrial and commercial scenarios.

Model: LFEI-100-233

Brand: sanhe

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Product Description

Commercial & Industrial ESS Product

All-in-one Liquid-cooled ESS Cabinet
LFEI-100-233



Characteristics:

- Cloud-edge-device coordinated control with big data algorithms
- Remote monitoring and configuration for simplified operation and maintenance
- Strategy optimization algorithm to max. customer benefits

High Efficiency and Stability

- High-efficiency liquid cooling with $\leq 3^{\circ}\text{C}$ temperature difference between cells
- Modular components/standard wiring harness for core units
- Modular PCS

Safe and Reliable

- Tier-1 brand battery cells, Grade A cells
- Active and passive fire protection design
- Safety warning algorithm for early identification and handling

Flexible Configuration

- Supports parallel connection
- Integrated transportation for easy installation
- Flexible site layout and arrangement
- Modular design for convenient maintenance and upgrades

Technical Specification:

MODEL No.	LFEI-100-233
DC Parameter	
Cell Type	LFP280Ah

Rated Voltage	832V
Voltage Range	650-949V
Rated Capacity	280Ah
Rated Energy	232.96kWh
Standard Charge/Discharge Current	140A(0.5P)
Max.Charge/Discharge Current	160A(0.5P)
DC Protection	Circuit Breaker&FUUSE
AC Parameter	
Rated Output Power	105kW
Rated Grid Voltage	400V
AC Connection	3-phase 3-wire/3-phase 4-wire
Grid Frequency Range	50Hz/60Hz
THD	≤3%(at full load)
Power Factor	-0.99~+0.99
General Parameter	
Weight	2.5t
Dimensions(W*D*H)	1000*1350*2350mm
Max.System Efficiency	89%
Charge/Discharge Rate	0.5P
Cooling Method	Liquid Cooling
Operating Temperature	-20-55°C
Relative Humidity	0%-95%,RH
Altitude	≤2000m
Fire Safety	PACK-level&PERFLUORO
Ingress Protection	IP54
Cycle Life	≥6000@25°C,0.5C,90%DOD,70%EOL
Communication Interfaces	RS485、Ethernet、4G
Communication Protocols	Modbus、61850

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