

# ESS-SYS-125/261L-Y

Silent Integrated Battery Energy Storage System (liquid cooling)



## High Energy Density

Occupies a footprint of 1.56m<sup>2</sup>.



## Low Noise

Ultra-quiet PCS, built-in silencing design of air conditioner, noise <65dB.



## Flexible Installation

Integrated design supports side-by-side and back-to-back installation.



## High Efficiency

Maximum system efficiency > 90%, strict thermal insulation design, efficient PCS conversion efficiency brings higher benefits.



## High Security

BMS + PCS dual monitoring, emergency stop linkage, remote shutdown, active fire protection, water fire protection, explosion-proof and explosion-relief design.



## Digital Management

3S (BMS, PCS, EMS) + cloud for full lifecycle digital management.

Product model	ESS-SYS-125/261L-Y
Battery type	Lithium Iron Phosphate (LFP)
Cycle Life	≥6000 cycles (95% DOD charge/discharge, 25±2°C, EOL 70%)
Depth of Discharge	0.95
Rated Energy (kWh)	261.25 kWh (0.5P, 25±2°C)
Nominal Voltage (V)	832V
Voltage Range (V)	728-949V
Cell type	LFP 3.2V/314Ah
Battery Configuration	1P52S × 5
AC Side	
AC Side Rated Power	125kW
AC Side Maximum Power	137.5kW
Maximum Output Current (A)	198A
Rated Frequency (Hz)	50/60
Harmonic Current	<3% (at rated power)
DC Component	<0.5% (at rated power)
Rated AC Voltage (V)	AC 400
Power Factor	>0.99 (at rated power)
Power Factor Adjustment Range	1 (leading) – 1 (lagging)
Isolation Method	Transformerless
Wiring Method	3P+N+PE
System Data	
Overall System Efficiency	>86%
Noise Level (dB)	75 (measured at 1 m)
Earthing System	TN-S
SOE Estimation Accuracy	<5%
Protection Level	IP55
Operating Temperature (°C)	-20~55
Operating Humidity	≤95% (non-condensing)
Operating Altitude (m)	4000 (derated above 2000 m)
Fire Protection System	Composite detection + gas extinguishing + water-based fire suppression
Early Detection	Four-in-one detector (smoke, temperature, CO, VOC)
Thermal Management System	Intelligent liquid cooling unit
Gas Extinguishing Medium	FK-5-1-12
System Dimensions (W×H×D mm)	1200 × 2350 × 1400 mm
Weight (kg)	2940kg
Communication Interfaces	CAN, RS485, Ethernet, 4G
Communication Protocols	CAN, Modbus RTU, Modbus TCP, MQTT