

JAPlanet Liquid Cooled C&I Energy Storage System

JAP-ES-125kW-261kWh-B01



JAPLANET

125kW | 261kWh

PRODUCT HIGHLIGHTS



SAFE & RELIABLE

- Intelligent three-level fire protection warning mechanism with system explosion-proof design and pack-level detection & fire extinguishing.
- Cabinet withstands 1600°C due to the explosion-proof & fire-resistant insulation with long-fiber alumina composite.
- Real-time AI monitoring with early warning to prevent thermal runaway.
- Millisecond-level linkage response.



ECONOMICAL & EFFICIENT

- Long-life LFP batteries can provide higher returns on investment.
- Intelligent liquid cooling to manage the cell temperature difference within $\pm 1.5^{\circ}\text{C}$.
- Low auxiliary energy consumption, 30% less than air-cooled product.
- Maximum 20 grid-connected units in parallel to provide 5MWh+ solution.



SMART & CONVENIENT

- High precision SOX algorithm, full-time passive balancing and status monitoring.
- Pre-installation and pre-commissioning in factory for easier site work.
- Full traceability of components during the manufacturing process simplifies O&M, and after-sales services.
- Pre-built multi-scene control strategies.

TECHNICAL SPECIFICATIONS

TECHNICAL DATA	JAP-ES-125kW-261kWh
DC SIDE	
System nominal capacity	261 kWh
Cell capacity	314 Ah LFP
Nominal voltage	832 Vdc
Voltage range	728 ~ 936 Vdc
AC SIDE	
System nominal power	125 kW
Nominal voltage	380 / 400 Vac, -15% ~ 15% (3P4W + PE)
Nominal frequency	50 / 60 Hz
Power factor range	1.0 leading ~ 1.0 lagging
SYSTEM PARAMETER	
Temperature control method	Intelligent liquid cooling
Temperature difference control	≤ 3°C
Nominal charge & discharge rate	0.5 P
Depth of discharge	90% / 95%
System protection level	IP55
Communication interface	Ethernet, CAN, RS485
Communication protocol	MODBUS-TCP/IP, MODBUS-RTU
Fire suppression system	Pack-level & Cabinet-level detection + Aerosol
Standard	IEC 62619, IEC 63056, IEC 60730, IEC 62477, IEC 61000, UN 38.3
Max. Parallel quantity	20
BASIC PARAMETER	
Dimension (W x D x H)	989 × 1465 × 2473 mm
Battery cycle life	8000+
Weight	~ 2800 kg
Operation temperature range	-30°C ~ +50°C
Operation humidity range	0 ~ 95% (Non-condensing)
Anti-corrosion level	C4
Max. Operating altitude	2000m

*Specification indexes may be subject to changes without prior notice.