

JAPlanet Liquid Cooled C&I Energy Storage System

JAP-ES-125kW-261kWh-B01



JAPLANET

125kW | 261kWh

PRODUCT HIGHLIGHTS



**SAFE &
RELIABLE**



**ECONOMICAL
& EFFICIENT**



**SMART &
CONVENIENT**

- 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.
- 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.
- 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		IP54
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.