520kWh

Liquid Cooling ESS Solution

The Jinko ESS 520 Liquid-Cooled Integrated Cabinet is a high-density, modular 1000V energy storage system. It consolidates battery modules, BMS, PCS, and fire protection into one cabinet, providing 522 kWh of capacity and 130.5 kW of power. Engineered for scalable and diverse applications, it offers exceptional safety, reliability, intelligent cooling, and smart software management.

All-in-one design integrating PCS (Power Conversion System) simplifies transportation, installation, and operation & maintenance. Modular architecture supports parallel connection of multiple units for scalable capacity expansion.

Comprehensive intelligent monitoring ensures real-time protection of the battery system. Built-in heating function maintains optimal operating temperatures, improving performance and reliability in varying climates.

Advanced Liquid Cooling Technology

Non-uniform liquid cooling pipeline design minimizes temperature di erences between cells (ΔT ≤ 2). Multiple cooling control modes adapt to operational needs, reducing auxiliary power consumption.

Intelligent Cloud-based Operation

Remote firmware updates ensure continuous system optimization. Cloud monitoring platform enables multi-device access for real-time oversight, analytics, and control.

DC Side

Cell Type	LFP 3.2V/314Ah
Nominal Capacity	522 kWh
Rated Voltage	832 Vdc
Nominal Voltage Range	728V~936V
Pack Quantity	10 pcs
Max. Charge/Dischage Power	0.25 P
System Configuration	2P260S

AC Side

Rated AC Power	130.5 kW
Rated Voltage	400 Aac (3P4W)
AC Connection	3P4W
Rated Frequency	50/60 Hz
THDi	3%

General Parameters

Life cycle	8000 @70%EOL
Operating Temperature	-30 ~55 , derating > 45°C
Operating Humidity	≤ 95%RH, without condensation
Operating Altitude	≤ 3000m
Ingress Protection	IP55 (Cabinet); IP65 (PCS)
Corrosion Protection Class	C3 (C5 Optional)
Fire suppression system	Pack-level & Cabinet-level detection + Aerosol Suppression + Smoke + Temperature sensing
Cooling Method	Liquid cooling (Battery); Air forced (PCS)
Max. Parallel Quantity	12 Units in parallel
Communication Protocol	RS485/CAN/Ethernet
	1920x1400x2400 mm
Weight	5, 000 kg
Compliance Standards	IEC 62619, IEC 62477, IEC 60730, IEC 63056, IEC 61000, IEC 62933, UN 38.3, UL 9540A, UL 1973

© 2026 ZS 2 z