JA Energy Storage

JA Planet

Liquid Cooled C&I ESS Product

BP-ES-125kW-261kWh-B02



Advantages

Safety

- Millisecond-level response with real-time insulation monitoring
- TripleGuard Safety: Fire protection (3-tier), explosion-proof design, PACK detection
- Real-time thermal runaway warning

Cost Efficiency

- Higher ROI with long-life LFP batteries and high-precision SOX management
- System Round-trip efficiency (RTE) up to 88 %
- Liquid cooling maintains batteries at ⩽ 35 °C, reduces temperature variance to ⩽ 3 °C, and cuts auxiliary power consumption by 10 %

Reliability

- AI-driven predictive maintenance slashes downtime by up to 90 %
- Remote resolution fixes 90 % of issues via software updates
- Modular design enables rapid component replacement and enhances service efficiency

Technical Specifications

	Model	BP-ES-125kW-261kWh-B02
DC Side	Nominal Energy	261 kWh
	Cell Capacity	314 Ah LFP
	Nominal Voltage	832 Vdc
	Voltage Range	728 Vdc to 936 Vdc
	Nominal Charge / Discharge Rate	0.5 P
	Depth of Discharge	95 %
	Nominal Power	125 kW
AC Side	Nominal Voltage	380 / 400 Vac, ±15 % (3P4W + PE)
	Nominal Frequency	50 / 60 Hz
	Power Factor	1.0 leading to 1.0 lagging
System Parameters	Dimensions (W × D × H)	989 mm × 1465 mm × 2473 mm
	Cycle Life	8000+
	Weight	2700 kg
	Operation Temperature Range	-30 °C to +50 °C
	Humidity	0 to 95 % RH (non-condensing)
	Cooling Method	Liquid Cooling
	Fire Suppression System	Pack-level & Cabinet-level detection + Aerosol
	Protection Level	IP55
	Anti-corrosion Level	C4M
	Communication Protocol	MODBUS-TCP/IP, MODBUS-RTU
	Max. Parallel Quantity	20
	Certification	IEC 62619, IEC 63056, IEC 60730, IEC 62477, IEC 61000, UL 9540A, UN 38.3

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

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