

JAGalaxy Utility Liquid-Cooled ESS

JAG-BS-0.5CP-5015kWh-B01



KEY STRENGTHS



COST-EFFECTIVENESS

- Single side access door design, back-to back or side-by-side layout design can reduce the footprint by 32%.
- Compared to the previous liquid cooling system, energy density increases by 49%.



HIGH EFFICIENCY

- Smart liquid cooling system with the cell operating temperature $\leq 35^{\circ}\text{C}$, cell temperature difference $\leq 3^{\circ}\text{C}$, and auxiliary power consumption reduced by 10%.
- Rack-level management enables individual rack control for high system efficiency.



ULTIMATE SAFETY

- LFP battery cells for safety and extended lifespan.
- Pack level & Container level Aerosol to ensure system safety.



SMART & CONVENIENT

- Cloud-based health status assessment with dynamic energy efficiency management strategy adjustment.
- Intelligent fault-handling recommendations with field maintenance and inspection support.

ITEM	SPECIFICATIONS
Battery Cell Type	LFP 314Ah
Pack Type	1P*416S
System Configuration	12P*416S
Voltage Range	1164.8~1497.6Vdc
Charge/Discharge Rate	0.5P
Nominal Energy	5.015MWh
Nominal Power	2.508MW
Dimensions (W×D×H)	6058 × 2438 × 2896 mm
Weight	< 42.5t
Charge/Discharge Efficiency	≥ 93%
IP Rating	IP55 (Battery Compartment)
Thermal Management	Intelligent Liquid Cooling
Fire Protection System	Aerosol + Water Fire Suppression
Communication	CAN/RS485/Ethernet
Operating Temp. Range	-30°C ~ 50°C (Derated at -45°C)
Storage Humidity	0~95% (Non-condensing)
Noise	≤ 75dBA
Max. Operating Altitude	4000 m (Derated at 2000m)

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