

# Utility Liquid-cooled ESS Product

JAG-BS-0.5CP-5015kWh



## Advantages

### 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  $\leq 35\text{ }^{\circ}\text{C}$ , cell temperature difference  $\leq 3\text{ }^{\circ}\text{C}$ , 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

## Technical Specifications

Model		JAG-BS-0.5CP-5015kWh
DC Side	Cell Type	3.2 V / 314 Ah, LFP
	Nominal Voltage	1331.2 V, 12P416S
	Nominal Energy	5.015 MWh
	Nominal Power	2.508 MW
	Voltage Range	1164.8 Vdc to 1497.6 Vdc
	Nominal Charge / Discharge Rate	0.5 P
System Parameters	Dimensions (W × D × H)	6058 mm × 2438 mm × 2896 mm
	Weight	< 42.5 t
	Round-trip Efficiency	≥ 93 %
	Operating Temperature	-30 °C to +50 °C (derated at -45 °C)
	Humidity	0 to 95 % RH (non-condensing)
	Protection Level	IP55 (battery compartment)
	Anti-corrosion Level	C4M
	Noise Level	< 75 dB
	Altitude	4000 m (derating at 2000 m)
	Cooling Method	Liquid Cooling
	Fire Fighting System	Aerosol + Water Fire Suppression
EMS Communication	CAN, RS485, Ethernet	

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



JA Solar Technology Co., Ltd.

✉ [ess@jasolar.com](mailto:ess@jasolar.com)

🌐 [www.jasolar.com/ess](http://www.jasolar.com/ess)