

JAPlanet Air Cooling Utility-Scale Energy Storage

JAP-ES-100kW-215kWh-B01
JAP-HS-100kW-150kWp-215kWh-B01



KEY STRENGTHS



SAFETY & RELIABILITY

- LFP battery cells for safety and extended lifespan
- Physical isolation between battery and electrical compartments contains thermal transmission



FLEXIBILITY & COMPATIBILITY

- Multi-source inputs / outputs (PV / Battery / DG / Grid / Load)
- Configurable operating modes for diverse scenarios



INTELLIGENCE & EFFICIENCY

- Real-time system monitoring with cloud connectivity
- Integrated plug-and-play design for rapid installation
- Advanced battery management system and comprehensive thermal management system

APPLICATIONS



Off-grid Systems
Microgrid Systems



Commercial &
Industrial Peak Shaving



Critical
Backup Power



Grid
Support Services

TECHNICAL SPECIFICATIONS — JAPLANET

MODEL	JAP-ES-100kW-215kWh-B01	JAP-HS-100kW-150kWp-215kWh-B01
AC data		
Rated Power (kW)	100	
Rated Voltage (V)	400	
Rated Current (A)	144	
Voltage Range (V)	320~460V	
Rated Frequency (Hz)	50/60	
Power Factor	1.0 Leading ~ 1.0 Lagging	
Overload Capacity	110% Long Term, 120% 1Min	
Isolation Transformer	315/400	
AC System	3W+N+PE	
On/Off-grid Switching	Support (20ms)	
PV Data		
Max. PV Input Voltage (V)	/	1,000
Max. PV Power (kWp)	/	150
MPPT Operating Voltage Range (V)	/	250~850
Battery Data		
Cell Type	3.2V / 280Ah / LFP / 1P240S	
Rated Energy (kWh)	215kWh	
Max. Charge and Discharge Rate	0.5C@25°C	
Number of Battery Cycles	≥6,000 (90%DOD)	
General Data		
Operating Temperature (°C)	0°C ~ +45 °C	
Protection Level	IP54	
Parallel Quantity (Off-grid)	2	
Max. Operating Altitude (m)	5,000m (>3,000 Derating)	
Cooling Methods	Intelligent Air Cooling	
Fire Extinguishing System	Heptafluoropropane	
EMS Communication	RS485, TCP/IP	

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