

JA Planet

Micro-grid Hybrid ESS Product

JAP-HS-100kW-215kWh



| Advantages

Safety & Reliability



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

Flexibility & Compatibility



- Multi-source inputs / outputs (PV / Battery / DG / Grid / Load)
- Configurable operating modes for diverse scenarios
- On/Off-grid seamless switching (< 20 ms)

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

Technical Specifications

Model		JAP-HS-100kW-215kWh
DC Side	Cell Type	3.2 V / 280 Ah, LFP
	Nominal Voltage	768 V, 1P240S
	Nominal Energy	215.04 kWh
	Operating Voltage Range	672 Vdc to 852 Vdc
	Max. Continuous Charge / Discharge Rate	0.5 P @ 25 °C
	Cycle Life	≥ 6000 (90 % DOD)
AC Side	Rated Output Power	100 kW
	Rated Voltage	400 Vac
	Voltage Range	320 Vac to 460 Vac
	Rated Current	144 A
	Rated Frequency	50 / 60 Hz
	Power Factor	1.0 leading to 1.0 lagging
	Overload Capacity	110 % long term
	AC Output	3W + N + PE
	Isolation Transformer	270 / 400 Vac
	On/Off-grid Switching	Support (< 20 ms)
PV Side	Max. PV Input Voltage	1000 Vdc
	Max. PV Power	165 / 247 kWp
	MPPT Operating Voltage Range	250 Vdc to 950 Vdc
System Parameters	Dimensions (W × D × H)	2460 mm × 1560 mm × 2425 mm
	Weight	≤ 3900 kg
	Operating Temperature	0 to +45°C
	Humidity	0 to 95% RH (non-condensing)
	Protection Level	IP54
	Anti-corrosion Level	C4M
	Noise Level	< 75 dB
	Altitude	2000 m
	Cooling Method	Air Cooling
	Fire Fighting System	Aerosol
	Communication	RS485, TCP / IP
	Max. Number of Parallel	4

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



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