JA ESS

JA Planet Fusion
Hybrid C&I BESS



JAP-HS-0125kW-0250kWp-0261kWh-B01
JAP-HS-0250kW-0500kWp-0522kWh-B01

** above are our featured models.*

ADVANTAGES

High Safety

- Holistic hardware and software safety design from cell to system
- Dual-channel redundant ventilation design, compliant with NFPA 69 requirements
- Validated through UL 9540A testing for enhanced system-level safety

High Performance

- Long-life cells with a cycle life of 8,000+ cycles
- Modular design with multiple power and energy configurations to meet diverse customer needs
- Supports PV input up to 2 × rated power to maximize solar utilization
- 160% overload capability for 200ms in off-grid mode

High Reliability

- Full-process monitoring, diagnostics, warning and health management enabled by hardware, software, data models and domain expertise
- Early anomaly detection, fault warning and issue traceability, enabling a shift from reactive maintenance to predictive maintenance
- Coordinated 3S safety control with active warning and system-level linkage for reliable operation

DC Side	JAP-BS-0.5CP-261kWh-B01
Rated Capacity	314Ah
Rated Energy	261.248kWh
Nominal Voltage	832V
Voltage Range	728~936V
Rated C/D Rate	0.5CP
Depth of Discharge	95%
Ingress Protection	IP55
Corrosion Protection Rating	C4-M
Humidity	0~95%
Operation Temperature Range	-25~+55℃
Max.operation Altitude	3000m
Communication	CAN, ModBus, MQTT
Cooling Method	Liquid Cooling
Fire Suppression System	Temperature detection, Smoke detection, Gas detection, Aerosol
Dimensions (W x H x D)	1000×2150×1500 (±20mm)
Weight	Approx. 2550kg
Certification	UN38.3, IEC 62619, IEC 61000, IEC 62040-1, IEC 62477-1:2012, IEC 62933-5-2, NFPA 69, UL 9540A

**Note: The power ratio of battery cabinet capacity to hybrid inverter power shall be at least 2:1. The product is available in 2-hour and 4-hour systems.*

TECHNICAL SPECIFICATIONS

AC Side	75kW	80kW	99.9kW	100kW	125kW
DC Input					
Recommended Max. PV Array Size	150kW	160kW	200kW	200kW	250kW
Max. Input Voltage	1000V				
Rated Voltage	600V				
Start-up Voltage	180V				
MPPT Voltage Range	150~950V				
Max. Input Current	10×42A				
Max. Short Circuit Current	10×60A				
MPPT Number/Max Input Strings Number	10/20				
Battery					
Battery Voltage Range	300~950V				
Max. C/D Current	200A/100A+100A				
Number of Battery Port	2				
Maximum C/D Current of Each Port	100A				
Communication	CAN/RS485				
Grid Side					
Rated Output Power	75kW	80kW	99.9kW	100kW	125kW
Max. Apparent Output Power	75kVA	80kVA	99.9kVA	100kVA	125kVA
Rated Output Voltage	3/N/PE, 220V/380V, 230V/400V				
Rated Frequency	50Hz/60Hz				
Rated Output Current	114A/108.3A	121.6A/115.5A	151.8A/144.2A	151.9A/144.3A	189.9A/180.4A
Power Factor	> 0.99 (0.8 leading…lagging)				
THDi	< 3% (linear load)				
Max. Input Current	250A				
Off-Grid					
Rated Output Power	75kW	80kW	99.9kW	100kW	125kW
Max. Apparent Output Power	1.6 times of rated power, 10s 2 times of rated power, 200ms				1.4 times of rated power, 10s 1.6 times of rated power, 200ms
Back-up Switch Time	< 10ms				
Rated Output Voltage	3/N/PE, 220V/380V, 230V/400V				
Rated Frequency	50Hz/60Hz				
THDu	< 2% (linear load)				
Efficiency					
Max. Efficiency	97.60%				
EU Efficiency	97.20%				
General Data					
Max. Allowable Phase Imbalance	100%				
Dimensions (W x H x D)	1174 × 814 × 400mm				
Weight	170kg				
Max. Quantity of Parallel	On Grid: 10; Off Grid: 6 (To support more units, additional switch cabinets are required; support up to 10 units.)				
Topology	Transformerless				
Operation Temperature Range	-25~+60°C				
Corrosion Protection Rating	C5				
Ingress Protection	IP66				
Cooling Method	Intelligent redundant fan-cooling				
Max. Operation Altitude	3000m				
Grid Connection Standard	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1&2/EN 50549-10 VDE 0126/UTE C 15/VFR:2019, NTS 631/RD 244, CEI 0-21 etc				
Display	7.0" LCD display (By region) & Bluetooth + App				
Communication	CAN, RS485-115200, Ethernet, Wi-Fi (optional), Cellular, LAN				

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