

JA Planet Fusion

Hybrid C&I BESS

JAP-BS-0.5CP-104kWh-B01

JAP-BS-0.5CP-156kWh-B01

JAP-BS-0.5CP-208kWh-B01

JAP-BS-0.5CP-261kWh-B01

* Above are DC side specifications.



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	104kWh	156kWh	208kWh	261kWh
Rated Capacity	314Ah	314Ah	314Ah	314Ah
Rated Energy	104.499kWh	156.748kWh	208.998kWh	261.248kWh
Nominal Voltage	332.8V	499.2V	665.6V	832V
Voltage Range	291.2~374.4V	436.8~561.6V	582.4~748.8V	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°C			
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 x 2150 x 1500 (±20mm)			
Weight	Approx. 1545kg	Approx. 1880kg	Approx. 2215kg	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.

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	180.4A/189.9A
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				

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



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