

JA Planet

Solar + Storage Hybrid C&I BESS

JAP-HS-50kW-50kWp-104kWh-B01



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



- $\leq 3^{\circ}\text{C}$ in-cabinet cell temperature difference
- 4 integrated MPPTs; multi-string PV support; 20 A $\times$ 2 per MPPT; high-power module compatible
- Dual battery inputs, 80 A rated current per input, compatible with 314 Ah cells
- 100% unbalanced load support for flexible C&I applications

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

Model	JAP-BS-0.5CP-104kWh-B01
Rated Capacity	314Ah
Rated Energy	104.499kWh
Nominal Voltage	332.8V
Voltage Range	291.2~374.4V
Rated C/D Rate	0.5P
Depth of Discharge	95%
Ingress Protection	IP55
Corrosion Protection Rating	C4
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 (WxHxD)	1000x2150x1500 ($\pm 20\text{mm}$)
Weight	Approx. 1545kg
Certification	UN38.3, IEC 62619, IEC 61000, IEC 62040-1, IEC 62477-1:2012, IEC 62933-5-2, NFPA 69, UL 9540A

Technical Specifications

Model	50kW
DC Input	
Recommended Max. PV Array Size	75kW
Max. Input Voltage	1000V
Rated Voltage	600V
Start-up Voltage	180V
MPPT Voltage Range	150~850V
Max. Input Current	4×40A
Max. Short Circuit Current	4×60A
MPPT Number/Max Input Strings Number	4/8
Battery	
Battery Voltage Range	150~800V
Max. C/D Current	80A×2
Number of Battery Port	2
Grid Side	
Rated Output Power	50kW
Max. Apparent Output Power	55kVA
Rated Output Voltage	380/400V
Rated Frequency	50Hz/60Hz
Rated Output Current	76A
Max. Output Current	83.6A
Grid Type	3W+N+PE
Power Factor	> 0.99 (0.8 leading...lagging)
THDi	< 3%
Off-Grid	
Rated Output Power	50kW
Max. Apparent Output Power	55kVA
Back-up Switch Time	< 10ms
Rated Output Voltage	380/400, 0.85Un-1.1Un
Rated Frequency	50Hz/60Hz
Grid Type	3W+N+PE
THDu	< 2%
Protection	
Island Conservation	Yes
PV Reverse Polarity Protection	Yes
Battery Reverse Polarity Protection	Yes
Insulation Monitoring	Yes
Residual Current Monitoring	Yes
AC Overcurrent Protection	Yes
AC Overpower Protection	Yes
Standby Output Short-Circuit Protection	Yes
Short-Circuit Protection	Yes
General Data	
Dimensions (W×H×D)	530×850×280mm
Weight	73kg
Ingress Protection	IP65
Operation Temperature Range	-35~+60°C
Topology	Non-isolated
Humidity	0~100%
Max. Operation Altitude	4,000m
Cooling Method	Intelligent redundant fan-cooling
Noise	≤65dB
Display	APP; Display
Communication	WIFI or 4G or GPRS
Certification	VDE-AR-N 4105/VDE V 0124, EN 50549-1&2/EN 50549-10, CEI 0-21 ect



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