

Micro-grid Hybrid Split ESS Product

JAP-HS-150kW
JAP-HS-250kW



Advantages

Safety & Reliability



- LFP battery cells deliver inherent safety and a significantly extended lifespan
- A physical barrier thermally isolates the battery from electrical compartments, preventing heat transfer

Flexibility & Compatibility



- All-in-One Energy Hub: Uniting PV, Battery, Grid, Generator & Load
- User-configurable operating modes tailored to various application scenarios and energy strategies
- Ensures uninterrupted power with sub-20ms grid-to-off-grid switching
- Modular split-type architecture supports flexible system configuration and scalable expansion

Intelligence & Efficiency



- Real-time system monitoring and control enabled by secure cloud connectivity
- Streamlined installation through a fully integrated, plug-and-play architecture
- Intelligent battery management coupled with comprehensive thermal regulation ensures optimal performance and longevity

Technical Specifications

	Model	JAP-HS-150kW	JAP-HS-250kW
DC Side	Cell Type	3.2 V / 280 Ah, LFP	3.2 V / 280 Ah, LFP
	Nominal Voltage	768 V, 2P240S	768 V, 3P340S
	Nominal Energy	430 kWh	645 kWh
	Dimensions (W × H × D) per Cluster	1010 mm × 1560 mm × 2455 mm	1010 mm × 1560 mm × 2455 mm
	Operating Voltage Range	672 V to 850 V	672 V to 850 V
	Max. Continuous Charge / Discharge Ratio	0.5 C @ 25 °C	0.5 C @ 25 °C
	Cycle Life	≥ 6000	≥ 6000
	Weight	4800 (14400) kg	7200 (19200) kg
AC Side	Rated Output Power	150 kW	250 kW
	Rated Voltage	400 Vac	400 Vac
	Voltage Range	320 Vac to 460 Vac	320 Vac to 460 Vac
	Rated Current	216 A	361 A
	Rated Frequency	50 / 60 Hz	50 / 60 Hz
	Power Factor	1.0 leading to 1.0 lagging	1.0 leading to 1.0 lagging
	Overload Capacity	110 % long term	110 % long term
	AC Output	3W + N + PE	3W + N + PE
	On/Off-grid Switching	Support (< 20 ms)	Support (< 20 ms)
PV Side	Max. PV Input Voltage	1000 Vdc	1000 Vdc
	Max. PV Power	165 / 247.5 / 330 kWp	330 / 412.5 kWp
	MPPT Operating Voltage Range	250 Vdc to 950 Vdc	250 Vdc to 950 Vdc
PCS Parameters	Dimensions (W × H × D)	2000 mm × 1375 mm × 2385 mm	2735 mm × 1370 mm × 2385 mm
	Weight	2250 (2310) kg	3250 (3280) kg
System Parameters	Operating Temperature	0 to +45 °C	0 to +45 °C
	Humidity	0 to 95 % RH (non-condensing)	0 to 95 % RH (non-condensing)
	Protection Level	IP54	IP54
	Anti-corrosion Level	C4M	C4M
	Noise Level	< 75 dB	< 75 dB
	Altitude	2000 m	2000 m
	Cooling Method	Air Cooling	Air Cooling
	Fire Fighting System	Aerosol	Aerosol
Communication	RS485, TCP / IP	RS485, TCP / IP	

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



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