

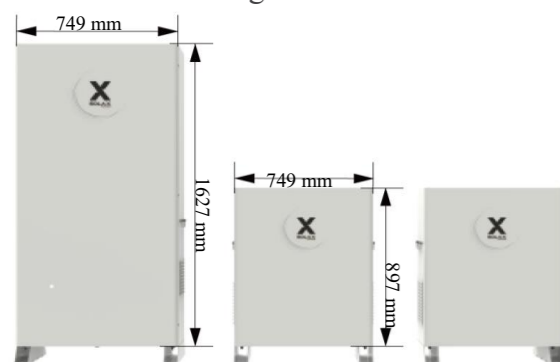
Single-phase hybrid energy storage system



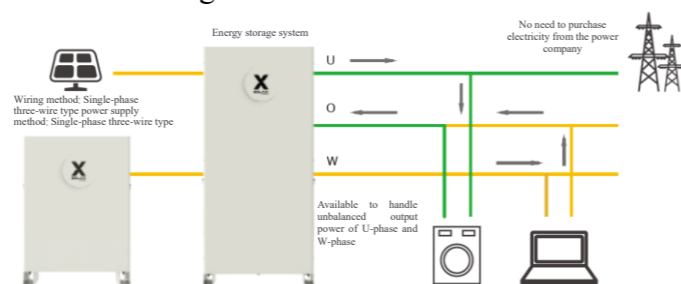
J1ESS series

Output power 3kW/5.9kW

Main unit dimension diagram



Schematic diagram



High-efficiency power generation capability of the entire circuit with MTPP

All circuits (3 strings) are compatible with MPPT, and different numbers of solar panels can be connected to each circuit
No impact on other circuits, each circuit generates power independently
Compatible with various solar modules under a wide range of input conditions
Available to connect up to 3 roof-mounted solar panels

Safety protection compliant with Japanese standards

Compliant with Japanese standards (certified by JIS and JET)
Reliable dustproof and waterproof performance (compliant with dustproof and waterproof level IP65)
Salt damage protection measures that can be safely used in heavy salt damage and salt-affected areas (compliant with C5-H salt damage protection)
Complies with other standards such as vibration, impact, climate, EMC, etc.

SolaX Cloud intelligent management system developed in-house by the company

Maintenance management & operation via network with remote monitoring
7 days × 24 hours data monitoring and maintenance (optional)
Diverse monitoring methods, Wi-Fi/LAN/4G (optional)
Equipped with output control function and anti-reverse current function. (Using anti-reverse current equipment)

Maximized for household energy consumption

Each circuit 14A can support large PV modules
Standard configuration with MPPT 2-3 independent circuit solar string inputs
Adopts ultra-wide range specifications, allowing even small amounts of sunlight in the early morning to be effectively utilized

J1ESS-HB58/58-1

J1ESS-HB58X/115/173

	J1ESS-HB58/58-1	J1ESS-HB58X/115/173
Solar DC input		
Maximum input voltage (DC)	450V/circuit	
MPPT circuit number	2 circuits	3 circuits
Rated input voltage (DC)	330V	
Maximum input current	14A/circuit	
MPPT tracking range (DC)	70-450V	
MPPT Maximum efficiency	99.9%	
AC output (During interactive operation)		
Power supply method	Single-phase 3-wire type	
Rated output effective power	3kW	5.9kW
Rated output voltage	AC101/202V	
Rated output frequency	50/60Hz (Automatic recognition)	
Rated output current	14.9A	29.2A
Stand-alone output (During power outage)		
Rated output effective power	3kW	5.9kW
Rated output voltage	AC101/202V	
Rated output frequency	50/60Hz (Automatic recognition)	
Storage battery unit		
Type of battery	Lithium iron phosphate battery	
Battery capacity	5.8kWh/11.5kWh	5.8kWh/11.5kWh/17.3kWh
Indoor remote control		
Dimensions (W × D × H)	90.7 × 90.7 × 27.9 mm	
Communication mode	RS485	
Working environment (indoor)	-20°C to 70°C	
Environmental condition		
Waterproof and dustproof level	IP65	
PCS operating temperature range	-25°C to 60°C	
Battery operating temperature range	-10°C to 55°C (Charging range 0°C to 55°C, discharge range -10°C to 55°C)	
Working humidity range	0-100%	
Service altitude	< 2000 m	
PCS maintenance temperature range	-30°C to 70°C	
Battery maintenance temperature range	-20°C to 55°C	
Noise level	< 30 dB < 30 dB (The fan automatically operates when the ambient temperature exceeds 35°C, during which it is < 40 dB)	
Appearance		
Cooling mode	Natural air cooling	Forced air cooling
Insulation method	Non-insulated and transformer-free mode	
External communication mode	CT/Pocket Wi-Fi (optional)/Pocket LAN (optional)/RS485/USB/indoor remote control	
Warranty period	10 years (extended warranty available for an additional 5 years/10 years at extra cost)	
Outer packaging Package size	J1ESS-HB58: Width 749 × Height 1,627 × Depth 289 mm J1ESS-HB58-1: Width 749 × Height 1,627 × Depth 289 mm Width 640 × Height 897 × Depth 289 mm	J1ESS-HB58X: Width 749 × Height 1,627 × Depth 289 mm J1ESS-HB115: Width 749 × Height 1,627 × Depth 289 mm / Width 640 mm × Height 897 mm × Depth 289 mm J1ESS-HB173: Width 749 × Height 1,627 × Depth 289 mm / Width 640 × Height 897 × Depth 289 mm × 2
Total weight	150 kg / 247.5 (150+97.5) kg	157 kg / 254.5kg (157+97.5) / 352 kg (157+97.5 × 2)

※ Product specifications are subject to upgrades and changes without prior notice.