



20kWh/25kWh Three-Phase Stacked All-in-One Home Solar Energy Storage System

Model: HJ-H20-H10/HJ-H25-H15 Power: 10kw;15kw/20kwh;25kwh

Summary

HighJoule 20kWh/25kWh Three-Phase Stacked All-in-One Solar Energy Storage System: Efficient solar capture, 50A for high-power appliances, <10ms outage switching. Suitable for homes and small offices, with expandability and reliable performance.



20kWh/25kWh Three-Phase Stacked All-in-One Home Solar Energy Storage System (HJ-H20-H10/HJ-H25-H15)

Product Features

High-Capacity LiFePO4 Batteries

20.48 kWh (HJ-H20-H10) and 25.6 kWh (HJ-H25-H15) capacities with LiFePO4 tech—enough to power a home's daily appliances, from TVs and refrigerators to air conditioners. The long-lasting battery cells mean reliable storage for years, even with

daily use.

Top-Tier Solar Energy Capture

Max solar input reaches 17,000W (HJ-H20-H10) and 25,500W (HJ-H25-H15), so it soaks up sunlight efficiently. With a wide 180-900V input range and dual MPPT, it keeps harvesting power even if panels are partially shaded—no more wasted sunlight.

Smooth Grid/Off-Grid Switching

Switches between grid-connected and off-grid in under 10ms. That means if the grid goes out, your lights, fridge, and Wi-Fi stay on—no blips, no interruptions to daily life.

Flexible Power for All Devices

Works with 380/400V three-phase setups, perfect for homes with big appliances. The HJ-H25-H15 puts out 15,000W steadily, handling everything from electric ovens to water heaters without breaking a sweat.

Less Waste, More Savings

88% system efficiency means almost all the solar power you capture gets used—hardly any energy is lost. Over time, that adds up to lower bills and more value from your solar setup.

Tough in Any Weather

Works from -25°C (freezing cold) to 60°C (scorching heat). Whether you live in a snowy area or a hot climate, it keeps performing reliably.

Built to Stay Safe

Protects against voltage spikes, too much current, and short circuits. Plus, it's IP65 rated—dustproof and water-resistant, so you can put it in the garage or even a covered outdoor spot.

Fast Power When You Need It

50A charging and discharging means it can quickly store solar energy or send power out when you need it—great for sudden high-power uses, like firing up the AC on a hot day.

Control from Anywhere

Check performance and adjust settings remotely using apps or computers (via RS485, Ethernet, etc.). See how much power you're using, tweak storage, and stay on top of energy habits.

Grows with Your Needs

Stackable design lets you add more battery packs later. If you get an electric car or expand your home, just upgrade—no need to replace the whole system.

Technical Parameters

Product model	HJ-H20-H10(k-2)	HJ-H25-H15(k-3)
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Photovoltaic Parameters

Maximum Input Power [W]	17000	25500
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Maximum Input Voltage [V]	1000	
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Operating Voltage Range/Rated Voltage [V]	180~900/610	
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Maximum Input Current [A]	18/18	36/36
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Maximum Short-Circuit Current [A]	20/20	40/40
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Number of MPPT	2	
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Number of Input String per MPPT	1/1	
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AC Parameters (Grid-Connected End)

Rated Output Power (W)	10000	15000
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Maximum Apparent Output Power (VA)	11000	16500
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Maximum Input Power	18000	30000
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(W)

Rated Voltage (Vac)	380/400V,3L/N/PE	
Rated Frequency (Hz)	50/60	
Maximum Output Current (A)	16	24
Maximum Three-Phase Unbalanced Output Current [A]	22	33
Grid Bypass Current [A]	35	50
Power Factor Range	~1 (0.8 advance, 0.8 delay, adjustable)	

Total Current Harmonic Distortion (@ Rated Power) (%)

Application

The HighJoule 20kWh/25kWh Three-Phase Stacked All-in-One System (models HJ-H20-H10(k-2)/HJ-H25-H15(k-3)) is primarily designed for households. With dual MPPT PV input (17kW for 20kWh model, 25.5kW for 25kWh model), it efficiently captures solar energy for daily use. Its 50A charging/discharging capacity handles high-power home appliances like air conditioners and EV chargers. The

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