

Stand-mounted all-in-one home solar energy storage

Model: HJ-H05-O05/HJ-H10-O05/HJ-H15-O10 Power:
5KW,11KW/5.12KWh,14.3KWh

Summary

HighJoule Stand-mounted Solar Storage (HJ-H05/H10/H15): 5.12-14.3kWh, 5-11kW inverter. 6,000+ cycle LiFePO₄ battery (10-year warranty). <5ms outage backup, 90-min install. Saves \$1,200+ yearly.



Stand-mounted all-in-one home solar energy storage (HJ-H05-O05/HJ-H10-O05/HJ-H15-O10)

Product Features

High-Efficiency LiFePO₄ Battery

51.2V modular systems (5.12/10.24/14.3kWh) with 6,000+ cycles @80% DoD; 10-year warranty, powering US homes 8-24hrs during outages.

5-11kW Hybrid Inverter

11kW pure sine wave output (HJ-H15-O10) for 3-ton AC + EV charger; <3% THDi and 97.5% CEC efficiency for stable high-power supply.

Dual-Range MPPT System

90-450VDC input (HJ-H15-O10) harvests 18% more low-light energy; supports 600W+ bifacial panels for 24/7 solar optimization.

Space-Optimized Chassis

450×270×650mm vertical design (0.12m² footprint); IP20/NEMA 4X rating fits utility closets, garages, or basements.

<5ms Grid Transfer

UL 1741 SA-certified UPS switching; maintains CPAP/medical devices & IT systems without interruption during outages.

Smart Energy Monitoring

RS485 + dual-band WiFi; HighJoule EnergyOS™ app for real-time diagnostics & remote firmware updates (iOS/Android).

90-Minute Installation

Pre-terminated cables + tool-free assembly; NABCEP installers commission in <2hrs with single-point wiring.

Triple-Layer Protection

Grade-A LiFePO₄ cells + 32-bit BMS + AFCI; meets UL 9540A & IEC 62619 safety standards.

Intelligent Peak Shaving

Automated TOU optimization; reduces 80% peak-hour grid use (e.g., PG&E 4-9pm) saving \$1,200+ annually in CA.

Whole-Home Backup

Scalable from 5kW apartments to 11kW+42.9kWh homes; integrates with generators for extended outages.

Technical Parameters

Product model	HJ-H05-O05(B-45)	HJ-H10-O05(B-46)	HJ-H15-O10(B-47)
Battery voltage	51.2V	51.2V	51.2V
Battery capacity	100Ah	200Ah	280Ah
Energy	5.12KWh	10.24KWh	14.3KWh
Inverter power	5KW	5KW	11KW
MPPT voltage range	120~430Vdc	120~430Vdc	90~450Vdc
Waterproof rating	IP20	IP20	IP20
Communication method	RS485/WiFi	RS485/WiFi	RS485/WiFi
Dimensions (mm)	450*270*650mm(approx.)	450*270*850mm(approx.)	510*377*770mm
Weight (kg)	51kg(approx.)	91kg(approx.)	120kg(approx.)

Application

The HighJoule Stand-Mounted All-in-One Home Solar Energy Storage System (models HJ-H05-O05, HJ-H10-O05, HJ-H15-O10) combines a 5-11kW hybrid inverter with 5.12-14.3kWh LiFePO₄ batteries, providing over 6,000 cycles at 80% DoD. Its dual-range MPPT system optimizes solar energy, even in low light, while supporting 600W+ bifacial panels. Designed for compact installation (450x270x650mm), it fits utility closets or basements. With easy 90-minute installation, remote monitoring via WiFi, and UL-certified safety features, it ensures reliable whole-home backup, making

it a standout solution for homes, especially in areas with high peak-hour electricity rates.

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