

Stackable Household Energy Storage System

Model: HJ-HBH48 Stack Series Power: 5.12kwh-10.24kwh

Summary

The Stackable Home Energy Storage System is a modular solution designed for residential energy management. It allows homeowners to store excess energy from solar panels or the grid and use it during peak consumption periods or in case of power outages.



Stackable Household Energy Storage System (HJ-HBH48 Stack Series)

Product Features

Modular and Expandable

Easily stackable units allow flexible capacity expansion

Intelligent Energy Management

Built-in smart controller for optimized energy storage and distribution

Seamless Integration

Compatible with solar power systems, supporting both grid-tied and off-grid applications

High Safety Standards

Equipped with multi-level protection systems including overcharge, over-discharge, and temperature controls

Easy Installation and Maintenance

Compact design simplifies installation and requires minimal maintenance

Energy Efficiency

Helps reduce electricity bills by storing energy during low-cost periods and supplying it during peak demand

Technical Parameters

Lithium battery parameters

Product Number	HJ-HBH48100S1	HJ-HBH48100S2	HJ-HBH48100S3	HJ-HBH48100S4
Battery Type	Lithium Iron Phosphate Battery			
Battery Power	10.24kWh	15.36kWh	20.48kWh	25.6kWh
Battery Capacity	200Ah	300Ah	400Ah	500Ah
Rated Voltage	102.4Vdc	153.6Vdc	204.8Vdc	256.0Vdc
Parallel Quantity	2	3	4	5
Rated Charge and Discharge Current	50A			
Maximum Charge and Discharge Current	100A			
Cycle Life	> 6000 times @80%DOD@25°C			
Way of Communication	RS485/CAN			
Display Screen	LCD/LED (optional)			
	IP65			

Degree of Protection

Product Configuration

Item	Specifications and models	Unit	Quantity
Battery system	Including 1 set of battery PACK, BMS system, more than 3000 cycles	SET	1
Photovoltaic storage inverter	Hybrid type, 1) Photovoltaic input power: $\geq 5\text{KW}$ and photovoltaic voltage 125V~500V, with MPPT; 2) AC voltage: 230V, frequency 50HZ/60HZ, output power 5KW; 3) Battery voltage: 48V 4) With LCD/LED display, with communication RS485;	PCS	1
	WIFI module, matching the optical storage integrated inverter for use	PCS	1
Power distribution system	/	SET	1

Accessories in the cabinet	/	SET	1
Solar panel	550W, monocrystalline silicon, single plane, N type	PIECE	6
Solar panel bracket	Suitable for the use of solar photovoltaic panels, the photovoltaic bracket is installed in the inclined roof	SET	6
Direct current cable	PV1-F 1*4mm²RED	M	12
Direct current cable	PV1-F 1*4mm²BLACK	M	12
Ground lead	6mm²Yellow green ground line	M	5
Junctor	MC4 male and female Junctors, including male and female Junctor pins.	SET	2
Wooden packaging	/	SET	1

Application

Residential energy storage for solar power systems · Backup power supply during grid outages · Peak shaving to lower electricity bills · Off-grid living for remote homes

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