

# Rack-Mounted Household Energy Storage System

Model: HJ-HBL48 Rack Series    Power: 5.12kwh-10.24kwh

## Summary

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The Rack-Mounted Household Energy Storage System is designed to provide homeowners with a reliable and scalable energy storage solution. This system is housed in a compact, rack-mounted form factor that fits seamlessly into home environments.



*Rack-Mounted Household Energy Storage System (HJ-HBL48 Rack Series)*

## Product Features

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Modular Design

Expandable capacity by adding more battery modules in the rack

High Efficiency

Advanced energy management for optimal charge/discharge performance

Smart Energy Control

Supports grid-tied, off-grid, and hybrid solar system setups, ensuring seamless energy supply management

Enhanced Safety

Equipped with overcharge, over-discharge, and temperature protection for safe operation

Durability

Robust design to withstand daily use and harsh environmental conditions

Space-saving Design

Compact rack-mounted structure, easy to install and maintain

## Technical Parameters

### Lithium Iron Phosphate Battery

Product Number	HJ-HBL4850R	HJ-HBL48100R
Battery Power	5.12kWh	10.24kWh
Battery Capacity	100Ah	200Ah
Rated Voltage	51.2Vdc	
Rated Charge and Discharge Current	25A	50A
Maximum Charge and Discharge Current	50A	100A
Cycle Life	> 6000 times @80%DOD@25°C	
Way of Communication	RS485/CAN	
Display Screen	LCD/LED (optional)	
Degree of Protection	IP20	
Certified Product	CE/IEC/UN38.3/MSDS	

### Product Configuration

Item	Specifications and Models	Unit	Quantity
Battery system	Including 1 set of	SET	1

	<b>battery PACK, BMS system, more than 3000 cycles</b>		
<b>Photovoltaic storage inverter</b>	<b>Hybrid type,</b>	<b>PCS</b>	<b>1</b>
	<b>1) Photovoltaic input power: ≥5KW and photovoltaic voltage 125V~500V, with MPPT;</b>		
	<b>2) AC voltage: 230V, frequency 50HZ/60HZ, output power 5KW;</b>		
	<b>3) Battery voltage: 48V</b>		
	<b>4) With LCD/LED display, with communication RS485;</b>		
	<b>WIFI module, matching the optical storage integrated inverter for use</b>		<b>1</b>
<b>Power distribution system</b>	<b>/</b>	<b>SET</b>	<b>1</b>
<b>Accessories in the cabinet</b>	<b>/</b>	<b>SET</b>	<b>1</b>

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

## Application

Ideal for homes with limited space due to its compact, rack-mounted structure. Durability in Harsh Environments: Designed for stable operation in demanding environmental conditions like basements or garages.

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