15.36kWh 51.2V 300Ah Floor-Standing Movable LiFePO4 Home Solar Storage Battery | HS008

Our Product Introduction

Basic Information

- Place of Origin: Dongguan, Guangdong, China
- Brand Name: TINKO
- Certification: CE/ROHS/MSDS/UN38.3
- Model Number: HS008
- Minimum Order Quantity: 1 Piece
- Price: Negotiable
- Packaging Details: Standard export fumigation-free wooden case, 1 piece per case.
- Delivery Time: 25-30 work days
- Payment Terms: L/C, T/T
- Supply Ability: 100pcs/day



Product Specification

- Battery Type: LiFePO4 (Lithium Iron Phosphate)
- Nominal Voltage: 51.2V
- Nominal Capacity: 300Ah
- Energy: 15.36 KWh
- Cycle Life: 6000 Cycles @ 80% DOD
- Design Life: 10 Years
- Installation: Floor-mounted Movable With Universal Wheels
- Communication Port: RS485, RS232, CAN
- Max Charge Current: 200A
- Max Discharge Current: 200A
- Dimensions: 583 × 255 × 730 Mm
- Weight: 116.5 KG
- Operating Temperature: -20 ~ 60
- Safety Certifications: CE/ROHS/MSDS/UN38.3

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Product Description

Product Overview

The HS008 is a high-capacity floor-standing home energy storage battery manufactured by TINKO, built with premium grade-A LiFePO4 cells and an integrated smart BMS. It delivers 51.2V nominal voltage and 300Ah capacity, providing 15.36kWh of reliable energy storage for large households with high electricity consumption.

Featuring a compact cabinet design with built-in heavy-duty casters, it requires no fixed wall drilling or rack installation and can be easily relocated between rooms, garages and workshops. Fully compatible with most mainstream hybrid solar inverters, it is the ideal solution for solar self-consumption, time-of-use peak shaving and extended home emergency backup power.

Key Features

Ideal for Large Households: 15.36kWh usable capacity covers the daily electricity demand of big families and villas, reducing peak-rate electricity bills and ensuring longer backup duration during outages.

Zero-Maintenance & Silent Operation: Unlike noisy fuel generators, this sealed LiFePO4 unit operates completely silently with zero emissions, delivering reliable "set-and-forget" performance for daily use.

Advanced Safety Architecture: The intelligent BMS continuously monitors cell voltage, current and temperature in real time, providing full protection against overcharge, over-discharge, short circuit and over-temperature.

Flexible Movable Design: Pre-installed heavy-duty casters allow easy relocation without drilling or fixed installation, perfect for renters and scenarios where wall or rack mounting is not applicable.

Long-Term Cost Savings: ≥6000 deep cycles at 80% DOD with a 10-year design lifespan, outlasting traditional lead-acid batteries by 5–6 times, greatly reducing long-term replacement costs.

Wide Inverter Compatibility: Supports RS485, RS232 and CAN communication protocols, seamlessly integrating with most mainstream hybrid solar inverters on the market.

Key Specifications

Item	Parameter
Model	HS008
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Nominal Voltage	51.2V
Rated Capacity	300Ah
Rated Energy	15.36 kWh
Cycle Life	≥6000 cycles @ 80% DOD
Design Life	10 years
Weight	116.5 KG
Installation	Floor-mounted, movable with wheels

Battery Technical Parameters

No.	Item	General Parameter	Remark
1	**Nominal Voltage**	51.2V	Battery pack rated voltage
2	**Rated Capacity**	300Ah	--
3	**Cycle Life**	≥6000 cycles	@ 80% depth of discharge
4	**Max Parallel Quantity**	16 units	Maximum parallel connection
5	**Standard Charging**	200A CC to 56.4V, then CV 58.4V till cut-off current ≤15A	Single cell max voltage 3.65V
6	**Charge Cut-off Voltage**	58.4V (pack) / 3.65V (single cell)	--
7	**Standard Discharging**	200A constant current discharge to 43.2V	Single cell min voltage 2.7V
8	**Discharge Cut-off Voltage**	43.2V (pack) / 2.7V (single cell)	--
9	**Max. Charge Current**	200A	--
10	**Max. Discharge Current**	200A	--
11	**Operating Temperature**	Charge: 0 ~ 60 ; Discharge: -20 ~ 60	Battery surface temp ≤80 max
12	**Storage Temperature**	≤6 months: -5 ~ 25 ; ≤3 months: -5 ~ 35	30~60% SOC, humidity ≤85%RH
13	**Dimension (W × T × H)**	583 × 255 × 730 mm	Including plugins
14	**Weight**	116.5 KG	Battery pack weight
15	**Electrode Lead-out**	Terminal	--
16	**Power Display**	LCD display screen	--
17	**Communication Port**	RS485, CAN	--
18	**Mounting Method**	Floor mounted	--

BMS & Safety Protection

The built-in intelligent battery management system ensures safe and stable long-term operation:

- Real-time monitoring of pack voltage, charge/discharge current and multi-point temperature
- High-accuracy SOC calculation and automatic cell voltage equalization
- Comprehensive protection: over-voltage, under-voltage, over-current, short circuit and over-temperature protection
- Fault alarm and automatic power-off protection mechanism
- Sleep mode and data storage function for low standby consumption

Application Scenarios

- Residential on-grid / off-grid solar energy storage systems
- Home emergency backup power during extended grid outages
- Time-of-use electricity bill peak shaving for large households
- Villas and remote off-grid properties power supply
- Small home offices and light commercial power backup
- Scenarios where wall or rack installation is not applicable

Frequently Asked Questions

Q: What is the exact capacity of the HS008?

A: This model provides 15.36kWh of total stored energy (51.2V × 300Ah), designed to cover the daily electricity needs of a standard large household, with sufficient backup capacity during power outages.

Q: Can I expand the capacity by connecting multiple units?

A: Yes, this unit supports parallel expansion. You can connect multiple HS008 units via power and communication cables to build a larger energy storage system as your power needs grow.

Q: Is it easy to move? How heavy is it?

A: The unit weighs 116.5kg. It is equipped with heavy-duty bottom casters, allowing homeowners or technicians to easily roll it into position in the garage or utility room without special lifting equipment.

Q: Does it require professional installation?

A: We highly recommend installation by a certified electrical technician. This ensures proper connection of terminal blocks, correct wiring to the inverter, and proper configuration of communication protocols for optimal performance.

Q: Is it safe for indoor home use?

A: Absolutely. It uses non-toxic, thermally stable LiFePO4 cells with no hazardous fumes, and features a fully sealed structure, making it 100% safe for indoor residential installation.

Certifications & Warranty

- 100% full inspection before delivery, with strict quality control throughout the production process
- This product complies with international safety standards and holds CE, ROHS, MSDS and UN38.3 certifications
- Warranty: 1-year product warranty from the date of delivery, covering replacement for quality defects under normal use
- Design Lifespan: 10-year design service life under standard operating conditions
- Professional technical team provides pre-sales consultation and after-sales technical support
- OEM/ODM customization is supported for bulk wholesale orders

Product Display

Below are multi-angle factory real-shot images of the HS008 floor-standing energy storage battery, presenting the front panel, side power terminals, portable handle and movable casters in detail, for your direct reference.


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UP
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