51.2V 200Ah Floor Mounted Movable LiFePO4 Battery 10.24kWh Home Solar Energy Storage Battery with Wheels

Our Product Introduction

Basic Information

- Place of Origin: Dongguan, Guangdong, China
- Brand Name: TINKO
- Certification: CE/ROHS/MSDS/UN38.3
- Model Number: KTLS-48200
- 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: 200Ah
- Energy: 10.24 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: 568 X 245 X 907 Mm
- Weight: 75 KG
- Operating Temperature: -20 ~ 60
- Safety Certifications: CE/ROHS/MSDS/UN38.3

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Product Description

Product Overview

The KTLS-48200 is a professional floor-mounted home energy storage battery manufactured by TINKO, built with premium grade-A LiFePO4 cells and an integrated intelligent BMS. It delivers 51.2V nominal voltage and 200Ah capacity, providing 10.24kWh of reliable energy storage for residential solar power systems.

Designed with built-in universal wheels and an LCD display, it requires no fixed wall drilling or rack installation, and can be flexibly moved between rooms, garages and workshops. It supports RS485 and CAN communication and is fully compatible with most mainstream household inverters on the market. It is ideal for solar self-consumption, electricity peak shaving and home emergency backup power supply.

Key Features

Flexible Movable Floor Design: Built-in universal wheels for easy relocation, with no drilling or fixed installation required. Perfect for renters and scenarios where wall or rack mounting is not applicable.

Scalable Capacity up to 16 Units: Supports a maximum of 16 units in parallel connection, easily expanding total capacity from 10kWh to 160kWh to match growing energy demands.

Intelligent BMS with High Accuracy: Built-in battery management system with SOC calculation error below 5%, real-time monitoring of cell voltage, current and temperature, and multi-layer protection for safe and stable operation.

Long Cycle Lifespan: ≥6000 deep cycles at 80% DOD, far outlasting traditional lead-acid batteries and greatly reducing long-term replacement and operation costs.

Built-in LCD Display: Real-time display of battery status, voltage, current and remaining capacity, with no extra monitoring equipment needed for daily operation.

Safe & Maintenance-free: LiFePO4 chemistry with excellent thermal stability, same-port charge/discharge design, and a sealed structure requiring no regular maintenance.

Key Specifications

Item	Parameter
Model	KTLS-48200
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Nominal Voltage	51.2V
Rated Capacity	200Ah
Rated Energy	10.24 kWh
Cycle Life	≥6000 cycles @ 80% DOD
Max Parallel Units	16 units
Weight	75 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**	200Ah	—
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)**	568 × 245 × 795 mm	Including plugins
14	**Weight**	75 ± 0.5 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 BMS provides full-range management and protection for the battery pack, ensuring reliable and safe long-term operation:

- Real-time monitoring of single cell voltage, total pack voltage, charge/discharge current and multi-point temperature
- High-accuracy SOC calculation with error less than 5%
- Full protection functions: over-voltage, under-voltage, over-current, short circuit, over-temperature, under-temperature and reverse polarity protection
- Energy-transfer type battery equalization function, balancing the voltage of each cell
- Sleep mode, data storage and fault alarm functions

Application Scenarios

- Residential on-grid / off-grid solar energy storage systems
- Home emergency backup power during grid outages
- Time-of-use electricity bill peak shaving
- Remote villas and off-grid areas power supply
- Small workshops and home office power backup
- Scenarios where wall or rack installation is not applicable

Packaging & Delivery

- **Packaging:** Standard export fumigation-free wooden case, 1 piece per case
- **Standard Accessories:** 1 set external power cable, 1 piece parallel communication cable
- **Lead Time:** 25–30 working days for bulk orders
- **Shipping & Trade Terms:** Customizable based on your requirements; please contact us for details

Certifications & Warranty

- 100% full inspection before delivery, with strict quality control throughout the production process

Warranty: 1-year product warranty from the date of delivery for manufacturing defects

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 factory real-shot photos of the KTLS-48200, showing the product appearance, interface details and on-site production testing status, allowing you to have an intuitive understanding of the product.



Interface details: built-in power switch, RS485/CAN communication ports, SOC status indicators.



Side view of the battery pack, with terminal blocks for power connection.



Front view of the product under production test in our workshop.

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