2.56kWh Wall-Mounted LiFePO4 Battery | 25.6V 100Ah Home Solar Energy Storage | KTBG-24100

Our Product Introduction

Basic Information

- Place of Origin: Dongguan, Guangdong, China
- Brand Name: TINKO
- Certification: CE/ROHS/MSDS/UN38.3
- Model Number: KTBG-24100
- Minimum Order Quantity: 1 Piece
- Price: Negotiable
- Packaging Details: Standard export double-layer corrugated carton, 1 piece per carton.
- 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: 25.6V
- Nominal Capacity: 100Ah
- Energy: 2.56 KWh
- Cycle Life: ≥6000 Cycles @ 80% DOD
- Design Life: 10-20 Years
- Installation: Wall-mounted
- Communication Port: RS232, RS485, CAN
- Max Charge Current: 100A Per Unit (1C)
- Max Discharge Current: 100A Per Unit (1C)
- Dimensions: 360 × 560 × 152 Mm
- Weight: Approx. 50 Kg
- Operating Temperature: Charge: 0 ~55 ; Discharge: -20 ~60
- Safety Certifications: CE/ROHS/MSDS/UN38.3
- Original: Dongguan, Guangdong, China

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Product Description

Product Overview

The KTBG-24100 is a compact wall-mounted residential energy storage battery manufactured by TINKO, built with premium grade-A LiFePO4 battery cells in an 8S1P configuration and an integrated intelligent BMS system. It delivers 2.56kWh of stored energy with a 25.6V 100Ah rated specification and supports multi-unit parallel connection for flexible capacity expansion.

Equipped with RS485, CAN and RS232 communication interfaces, it is compatible with most mainstream 24V hybrid and off-grid inverters. Its slim wall-mounted design saves floor space, making it an ideal solution for small households, off-grid power systems, emergency backup and small-scale solar self-consumption scenarios.

Key Advantages

- **Space-Saving Wall-Mounted Design:** Ultra-slim compact body with wall-mounted installation frees up floor space, suitable for small apartments, garages and utility rooms.
- **Safe & Long-Life LiFePO4 Chemistry:** Grade-A lithium iron phosphate cells with high thermal stability, excellent cycle performance and a 10–20 year design life for safe, reliable long-term household use.
- **Full Intelligent BMS Protection:** Built-in BMS with over-charge, over-discharge, over-current, short circuit and over-temperature protection, plus automatic module-level cell balancing.
- **Multi-Protocol Communication:** RS485, CAN and RS232 standard communication interfaces compatible with over 20 mainstream inverter brands, supporting real-time system monitoring.
- **Flexible Capacity Expansion:** Supports parallel connection of multiple modules to expand total capacity and scale to different electricity consumption demands.
- **Intuitive LCD Display:** Front panel LCD screen for direct viewing of battery voltage, current, SOC and operating status for easy daily operation.
- **Strict Quality Compliance:** Compliant with CE, RoHS, MSDS and UN38.3 international standards, with 100% full inspection and aging test before delivery.

Key Specifications

Battery System

Item	Parameter
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Battery Configuration	8S1P
Rated Voltage	25.6V
Rated Capacity	100Ah (Typical 105Ah)
Rated Energy	2.56kWh
Charging Voltage Range	16V – 29.2V
Discharge Cut-off Voltage	20V
Standard Charge/Discharge Current	20A (0.2C)
Max. Continuous Charge/Discharge Current	100A (1C)
Internal Impedance	≤40mΩ
Installation	Wall-mounted, indoor use only
Net Weight	Approx. 50 kg
Dimensions	360 × 560 × 152 mm (W×H×D, including bracket)

Detailed Technical Parameters

No.	Item	General Parameter	Remark
1	Battery Type	LiFePO4 (Lithium Iron Phosphate)	8 series 1 parallel configuration
2	Rated Capacity	Typical 105Ah / Minimum 100Ah	Standard discharge after standard charge
3	Battery Pack Voltage Range	20V – 29.2V (40%–60% SOC)	Working voltage range
4	Discharge Cut-off Voltage	20V	Minimum discharge voltage
5	Charging Voltage Range	16V – 29.2V	Full charge voltage range
6	Internal Impedance	≤40mΩ	Measured at 50% SOC, AC 1kHz
7	Standard Charge Current	20A CC / 29.2V CV, 0.02CA cut-off	Charge time approx. 5.0h
8	Standard Discharge Current	20A constant current	Cut-off at 20V
9	Max. Continuous Charge Current	100A (1C)	@ ambient temperature ≥10
10	Max. Continuous Discharge Current	100A (1C)	@ ambient temperature ≥10
11	Operating Temperature	Charge: 0 ~ 55 ; Discharge: -20 ~ 60	Official specification
12	Storage Temperature	-10 ~ 35 (≤12 months); -10 ~ 45 (≤3 months)	Shipment state
13	Product Dimension	360 × 560 × 152 mm	Including mounting bracket
14	Net Weight	Approx. 50 kg	Approximate value
15	Installation Method	Wall-mounted, indoor use only	Space-saving flat panel design

Installation & Capacity Expansion

Wall-Mounted Installation: Comes with standard wall-mounting brackets and accessories for easy installation on indoor walls, saving floor space and keeping a tidy appearance.

Parallel Capacity Expansion: Multiple battery modules can be connected in parallel to increase total capacity. Please consult our technical team for detailed parallel wiring and configuration solutions.

Inverter Compatibility: Compatible with most mainstream 24V hybrid and off-grid inverters via RS485 or CAN communication, supporting solar charging, grid charging and discharge scheduling functions.

Installation Environment: For indoor use only. Install in a dry, well-ventilated area away from water sources, direct sunlight and flammable materials, with reserved heat dissipation space.

Application Scenarios

Small household rooftop solar self-consumption and peak load shifting

Home emergency backup power for essential appliances during outages

Small off-grid residential and cabin power systems

Time-of-use electricity price arbitrage for small households

Small retail shops and home office energy backup

Remote area power supply matched with small solar PV systems

Frequently Asked Questions

Q: Can multiple KTBG-24100 batteries be connected in parallel?

A: Yes, it supports parallel connection for larger capacity. Please contact us for detailed parallel wiring and configuration guidance to ensure system safety and stability.

Q: What inverters is this battery compatible with?

A: It is compatible with most mainstream 24V hybrid inverters and off-grid inverters, supporting RS485 and CAN communication protocols. You can provide your inverter model for compatibility confirmation before ordering.

Q: Can it be installed outdoors?

A: No. This model is designed for indoor use only. It must be installed in a dry, ventilated indoor environment, avoiding direct rain, immersion and humid conditions.

Q: How long is the battery service life?

A: Under standard operating conditions, the battery has a design service life of 10–20 years. Actual cycle life varies with charge-discharge depth, ambient temperature and usage habits.

Q: Does it have a display screen?

A: Yes, the front panel is equipped with an LCD display screen that shows real-time parameters such as battery voltage, current, remaining capacity (SOC) and operating status directly.

Certifications & Warranty

- 100% full inspection and aging test before delivery, with strict quality control throughout production
- Compliant with CE, RoHS, MSDS and UN38.3 international safety and transportation standards
- Built with premium grade-A LiFePO4 cells for stable performance and long service life
- Official warranty: 1-year product warranty from the date of delivery, covering quality defects under normal use. Extended warranty is available for bulk project orders.
- Professional technical team provides pre-sales consultation, installation guidance and after-sales technical support
- OEM/ODM customization is available for bulk wholesale orders

Product Display

Multi-angle product images of the KTBG-24100 wall-mounted LiFePO4 energy storage battery, presenting the front LCD display panel, side power terminals, metal carrying handles and ultra-slim flat body in detail, for your direct reference.


25.6V100AH2.56KWh
LiFePO4 Battery Module


Power



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