

51.2V 628AH home storage battery for back up power supply

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: TINKO/OEM
- Certification: CE/ROHS/MSDS/UN38.3
- Model Number: KT-HS010
- Minimum Order Quantity: 1PC
- Price: Negotiable
- Packaging Details: 1pc/parer carton
- Payment Terms: T/T, L/C, paypal
- Supply Ability: 100pcs/day



Product Specification

- Battery Type: Lithium-ion
- Installation: Floor- Standing
- Warranty: 5 Years
- Material: Steel
- Voltage: 51.2 V
- Dimensions: 720*440*870mm
- Efficiency: ≥95%
- Usage: Residential & Business
- Color: White & Grey
- Battery: Lifepo4
- Safety Certifications: CE, UN38.3, MSDS
- Communication Port: RS485, RS232, CAN
- Compatible Inverter: Hybrid Inverter Compatible
- Original: Dongguan, Guangdong
- Highlight: 51.2V home storage battery ,



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TINKO 51.2V 628Ah Home Energy Storage Battery

Product Overview

Experience ultimate energy independence with the TINKO 51.2V 628Ah Residential Energy Storage System. Designed with a sleek, minimalist European aesthetic and housed in a robust floor-standing cabinet, this battery delivers a staggering 32.14kWh of clean, reliable power. Whether you are looking to maximize self-consumption from your solar panels or need a silent, maintenance-free backup for whole-home emergencies, this TINKO unit delivers. Equipped with a high-performance 300A Smart BMS, it guarantees optimal performance, extreme safety, and a lifespan of over 15 years.

Technical Specifications

Parameter	Specification
Brand	TINKO/OEM
Battery Chemistry	LiFePO4 (Lithium Iron Phosphate)
Nominal Voltage	51.2V
Nominal Capacity	628Ah
Total Stored Energy	32.14 kWh
Max Continuous Discharge Current	300A
Max Continuous Charge Current	300A
BMS (Built-in)	Smart 300A BMS with complete protection features
Cycle Life	≥ 6000 cycles @ 80% DOD
Dimensions (W*D*H)	720 * 440 * 870 mm
Operating Temperature (Charge)	0°C to 55°C
Operating Temperature (Discharge)	-20°C to 60°C
Communication Ports	RS485 / CAN (Standard)
Certification	CE, UN38.3, MSDS

Key Features & Advantages

Massive 32kWh Capacity for Whole-Home Power

With a 628Ah capacity, this battery can easily run heavy appliances such as air conditioners, water heaters, and EV chargers during power outages or peak-hour grid blackouts.

Advanced 300A Smart BMS

Integrated 300A BMS manages charge and discharge rates at high efficiency while offering comprehensive protection against overcharging, deep discharging, short circuits, and extreme temperatures.

Ultra-Safe LiFePO4 Chemistry

Thermally stable and non-combustible LiFePO4 cells offer superior safety, longer cycle life (over 6000 cycles), and 100% maintenance-free operation.

User-Friendly & Space-Saving Design

Compact dimensions (720*440*870mm) with mobile cabinet design featuring heavy-duty casters for easy positioning. Front LCD screen and LED indicator for real-time monitoring.

Seamless Solar Integration

Designed to work flawlessly with existing solar PV systems and hybrid inverters. Standard 51.2V voltage ensures compatibility with leading inverters on the market.

Frequently Asked Questions

How many kWh does this TINKO battery store?

The battery has a total capacity of 32.14 kWh (51.2V x 628Ah), making it a high-capacity single-unit solution perfect for whole-home backup.

Can I connect multiple TINKO batteries in parallel?

Yes. This system is scalable and supports parallel connections to meet larger energy demands. Please contact our technical team for recommended maximum parallel quantities.

Is this battery compatible with my existing solar inverter?

As it is a standard 48V/51.2V system, it is highly compatible with most popular hybrid and off-grid inverters. The BMS supports standard CAN and RS485 communication protocols.

How long will this battery last?

The LiFePO4 cells provide over 6000 cycles at 80% depth of discharge. If cycled once daily, this translates to an expected service life of 15 to 20 years.

Is it safe to install indoors?

Absolutely. LiFePO4 is one of the safest battery chemistries on the market. The sealed unit produces zero emissions and is completely safe for indoor residential installation.

Can I move the battery once it is filled with energy?

Yes, the battery is equipped with industrial-grade casters designed to support its heavy weight, allowing you to position it easily. Always secure the unit once in its final position to prevent accidental rolling.

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