



16kWh 51.2V 314AH long lifespan energy storage battery for home back up power supply

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: TINKO/OEM
- Certification: CE/ROHS/MSDS/UN38.3
- Model Number: KT-HS017
- 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: **16kWh home backup battery.**



for more products please visit us on tinkopower.com

Product Description

TINKO 51.2V 314Ah LiFePO4 Home Storage Battery

16kWh Floor-Standing Unit with Smart BMS for Home Backup Power Supply

Product Overview

The TINKO 51.2V 314Ah battery delivers the perfect balance between compact footprint and high energy density. This floor-standing LiFePO4 unit provides 16.07kWh of usable power, specifically engineered for modern households seeking to reduce electricity costs and secure reliable energy supply.

Featuring a premium smart BMS with the safest Lithium Iron Phosphate chemistry, this cabinet-style battery serves as the ideal companion for hybrid solar systems. It enables seamless, silent, and maintenance-free energy transition, allowing you to power essential appliances during peak hours without grid dependency.

Technical Specifications

Parameter	Specification
Brand	TINKO/OEM
Battery Chemistry	LiFePO4 (Lithium Iron Phosphate)
Nominal Voltage	51.2V
Nominal Capacity	314Ah
Total Stored Energy	16.07kWh
Max Continuous Discharge Current	200A
Max Continuous Charge Current	200A
BMS (Built-in)	Smart 200A BMS with complete protection features
Cycle Life	≥ 6000 cycles @ 80% DOD
Dimensions (W×D×H)	485×240×780mm
Design Features	Floor-standing, Mobile rolling casters, Vertical LED indicator, LCD display
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 Advantages

Perfectly Scaled for Daily Solar Self-Consumption: With 314Ah (16kWh) capacity, this unit offers the ideal size for average households—compact enough for tight spaces yet substantial enough to significantly reduce peak-rate electricity bills.

Zero-Maintenance & Silent Operation: Unlike noisy generators, the TINKO 314Ah operates completely silently with zero emissions. This sealed unit requires no maintenance, delivering reliable "set-and-forget" performance.

Advanced Safety Architecture: The smart BMS continuously monitors cell temperatures, voltage, and current in real-time, instantly cutting off circuits to prevent thermal runaway, short circuits, and over-discharge.

Sleek & User-Friendly Integration: Featuring minimalist design with a crystal-clear display screen for instant SOC monitoring and pre-installed casters for easy mobility and installation efficiency.

Long-Term Investment Value: Backed by over 6000 charge cycles, this battery outlasts most household appliances, delivering stable performance for decades of daily cycling.

Frequently Asked Questions

What is the exact capacity of this TINKO model?

This specific model provides a total of 16.07 kWh ($51.2V \times 314Ah$). It is designed to handle the average daily electricity needs of a standard household, offering significant backup during outages.

Can I stack or link these units for more power?

Yes, this unit is 100% expandable. You can connect multiple TINKO 314Ah units in parallel (up to the supported limit of your inverter) to create a larger, scalable energy bank as your power needs grow.

How heavy is it? Can it be moved easily?

Given the high capacity, the unit is heavy, but we have equipped it with heavy-duty wheels (casters) on the bottom. This allows technicians or homeowners to easily roll it into position within the garage or utility area without special lifting equipment.

Does it require professional installation?

We highly recommend installation by a certified electrical technician. This ensures proper torque of terminal connections, correct wiring to your inverter, and correct configuration of communication protocols for optimal performance.

How does it compare to older lead-acid batteries?

The TINKO LiFePO4 system is significantly lighter, charges much faster, has a lifespan 10 times longer than lead-acid, and can be safely discharged to 80% DOD without damaging the cells. It is the superior modern choice.

Is this safe for indoor residential use?

Absolutely. It uses non-toxic, thermally stable Lithium Iron Phosphate cells. It is 100% safe for indoor installation, unlike older batteries that emit hazardous fumes.

TINKO® Dongguan KunTeng New Energy Technology Co., Ltd.



15973225095



grace@tinko.com.cn



tinkopower.com

Room 1001, Building 4, No. 57 Fengguan Road, Fenggang Town, Dongguan City, Guangdong, China