38.4V 105Ah LiFePO4 Golf Cart Battery | 4.032kWh Deep Cycle Lithium Battery | KTQC-36100

Our Product Introduction

Basic Information

- Place of Origin: Dongguan, Guangdong, China
- Brand Name: TINKO
- Certification: CE/ROHS/MSDS/UN38.3
- Model Number: KTQC-36100
- 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)
- Battery Voltage: 38.4V (36V System)
- Battery Capacity: 105Ah / 4.032kWh
- Display: Built-in Voltage & Power Display Screen
- Dimensions: 425 × 318 × 252 Mm
- Net Weight: Approx. 38 Kg
- Operating Temp: Charge: 0 ~55 ; Discharge: -20 ~65
- Protection System: Built-in Smart BMS With Full Safety Protections
- Safety Certifications: CE/ROHS/MSDS/UN38.3
- Origin: Dongguan, Guangdong, China
- Application: Outdoor Camping / Home Backup / Mobile Office / Digital Charging
- Highlight: **38.4V 105Ah LiFePO4 battery**, **4.032kWh deep cycle golf cart battery**, **KTQC-36100 lithium golf cart battery**

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Product Description

Product Overview

The KTQC-36100 is a high-performance deep-cycle lithium iron phosphate battery engineered specifically for 36V golf carts and low-speed electric vehicles. Built with grade-A LiFePO4 cells and an integrated intelligent BMS, it delivers a 38.4V 105Ah rated output with 4.032kWh total energy, serving as a direct drop-in replacement for traditional 36V lead-acid golf cart batteries.

With an IP67 waterproof rating, a robust metal casing and optional Bluetooth 5.0 APP monitoring, it offers longer cycle life, higher discharge efficiency and maintenance-free operation. It is widely applicable to golf carts, sightseeing vehicles, electric forklifts, cleaning equipment and small marine power scenarios.

Key Advantages

Direct Lead-Acid Replacement: Standard 36V system voltage, compatible with original golf cart wiring and chargers — no modification required for direct replacement.

Ultra-Long Cycle Life: Grade-A LiFePO4 cells rated at ≥6000 cycles @ 80% DOD, 3–5 times longer than traditional lead-acid batteries, with a 10-year design life.

IP67 Waterproof & Dustproof: Fully sealed metal housing with IP67 protection grade, adapting safely to outdoor rain, dust and humid golf course environments.

Intelligent Built-in BMS: Full protection against over-charge, over-discharge, over-current, short circuit and over-temperature, with automatic cell balancing.

Optional Bluetooth APP Monitoring: Built-in Bluetooth 5.0 (optional) supports real-time viewing of voltage, current, SOC, temperature and cell status via mobile phone APP.

High Current Discharge Capability: Max 100A continuous discharge current delivers stable power output for climbing and full-load driving.

Robust & Portable Design: Reinforced metal case with dual built-in handles, shock and vibration resistant, easy to install and move.

5-Year Official Warranty: Backed by a 5-year product warranty and strict quality control, with stable performance and low long-term use cost.

Key Specifications

Battery System

Item	Parameter
Battery Type	Grade A LiFePO4 (Lithium Iron Phosphate)
Rated Voltage	38.4V
Rated Capacity	105Ah
Rated Energy	4.032kWh
Charge Cut-off Voltage	43.8V
Discharge Cut-off Voltage	30V
Charge Mode	CC/CV (Constant Current / Constant Voltage)
Max. Continuous Charge Current	100A
Max. Continuous Discharge Current	100A
Cycle Life	≥6000 cycles @ 80% DOD
Design Life	10 years
Protection Grade	IP67 Waterproof & Dustproof
Case Material	Metal
Net Weight	38 kg
Dimensions	425 × 318 × 252 mm (L×W×H)

Function & Interface

Item	Parameter
Communication Ports	CAN, RS485
Bluetooth	Bluetooth 5.0 (Optional)
Display	Built-in voltage & power display screen
Protection	Intelligent BMS with full safety protections
Installation	Drop-in replacement for standard 36V golf cart battery tray

Detailed Technical Parameters

No.	Item	General Parameter	Remark
1	Battery Type	Grade A LiFePO4	Deep cycle power lithium battery
2	Nominal Voltage	38.4V	Standard 36V vehicle system
3	Nominal Capacity	105Ah	Standard test condition
4	Rated Energy	4032Wh (4.032kWh)	—
5	Charge Cut-off Voltage	43.8V	BMS over-charge protection
6	Discharge Cut-off Voltage	30V	BMS over-discharge protection
7	Charge Mode	CC/CV	Constant current then constant voltage
8	Max. Continuous Charge Current	100A	—
9	Max. Continuous Discharge Current	100A	—
10	Cycle Life	≥6000 cycles @ 80% DOD	Capacity retention ≥80%
11	Design Life	10 years	Standard operating condition
12	Operating Temperature	Charge: 0 ~ 55 ; Discharge: -20 ~ 65	Official specification
13	Storage Temperature	0 ~ 45	Long-term storage condition
14	Protection Functions	Over-charge / Over-discharge / Over-current / Short circuit / Over-temperature / Cell balancing	Intelligent built-in BMS
15	Communication Ports	CAN, RS485	For vehicle system communication
16	Bluetooth Function	Bluetooth 5.0 (Optional)	Mobile APP real-time monitoring
17	Protection Grade	IP67	Waterproof and dustproof
18	Case Material	Metal	Shock and corrosion resistant
19	Product Dimension	425 × 318 × 252 mm	L × W × H
20	Net Weight	38 kg	Approximate value

Product Structure & Features

Reinforced Metal Housing: Made of high-strength metal material, shock and vibration resistant, suitable for bumpy road conditions in golf courses and scenic spots.

Dual Built-in Handles: Integrated reinforced handles on both sides for easy lifting, installation and maintenance.

Front Display Screen: Built-in voltage and power display screen allows a quick check of battery status and remaining power without extra tools.

High-Current Copper Terminals: Pure copper high-current terminals with insulating covers ensure stable and safe high-power discharge.

Intelligent BMS Board: Built-in smart BMS with full protection functions automatically balances cell voltage and prolongs battery service life.

Optional Bluetooth Module: Supports Bluetooth 5.0 connection; the mobile APP can view real-time data such as current, voltage, temperature and single-cell voltage difference.

Fully Sealed Design | IP67 Protection: Fully sealed structure effectively prevents rain and dust from entering, suitable for long-term outdoor use.

Application Scenarios

36V golf carts and golf course utility vehicles

Electric sightseeing vehicles and patrol cars in scenic spots, parks and communities

Electric forklifts, floor scrubbers and other industrial cleaning equipment

Low-speed electric vehicles and old-age mobility scooters

Auxiliary power supply for small boats, yachts and marine equipment

Off-grid solar power storage and RV house battery

Frequently Asked Questions

Q: Can this battery directly replace my original 36V lead-acid golf cart battery?

A: Yes. It adopts standard 36V system voltage and a universal size, and can directly replace original lead-acid battery packs without modifying the vehicle wiring or battery compartment.

Q: Does it support Bluetooth APP monitoring?

A: The Bluetooth 5.0 module is optional. You can check real-time battery current, voltage, remaining capacity, temperature and cell status through the mobile APP, and switch charge-discharge modes.

Q: Is this battery waterproof? Can it be used in rainy days?

A: Yes. It has an IP67 waterproof and dustproof rating with a fully sealed housing design. It can be used normally in rainy days and humid outdoor environments (do not immerse in water for a long time).

Q: How long is the warranty period?

A: We provide a 5-year official product warranty from the date of delivery, covering quality defects under normal use. The design service life reaches 10 years under standard operating conditions.

Q: Do you provide matching chargers?

A: Yes, we can provide matching 36V LiFePO4 battery chargers and monitoring accessories. Please consult our sales team for detailed matching solutions.

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 cycle life.

Official Warranty: 5-year product warranty from the date of delivery, covering quality defects under normal use.

Professional technical team provides pre-sales matching consultation and after-sales technical support.

OEM/ODM customization is available for bulk wholesale orders.

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