

Battery for Parking Air Conditioner 8kWh lifepo4 battery pack for truck

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: RS007-P
- Minimum Order Quantity: 1PC
- Price: Negotiable
- Packaging Details: 1pc/parer carton

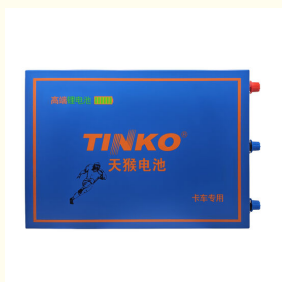


Product Specification

- Highlight: lifepo4 battery pack for truck, 8kWh parking air conditioner battery, EV motorcycle battery pack with warranty



More Images



Product Description

Product Overview

The TINKO RS007-FS is a high-capacity 25.6V 314Ah lithium iron phosphate (LiFePO₄) battery purpose-built for truck parking air conditioner systems, semi-truck sleeper cabs, RVs, and commercial vehicle auxiliary power applications. With a substantial 8,038.4Wh (8.0kWh) energy capacity, this battery delivers reliable, long-lasting off-grid power for cab comfort, onboard appliances, and critical systems during extended rest stops—eliminating the need for engine idling and significantly reducing fuel consumption and emissions.

Engineered with advanced LiFePO₄ chemistry, the TINKO RS007-FS offers superior thermal stability, enhanced safety, and an exceptionally long cycle life compared to traditional lead-acid batteries. Its built-in intelligent Battery Management System (BMS) provides comprehensive protection against overcharge, over-discharge, short circuits, overcurrent, and temperature extremes, ensuring safe and reliable operation in the most demanding conditions.

Whether you are a long-haul truck driver seeking overnight cabin comfort, an RV enthusiast exploring off-grid destinations, or a fleet operator looking to reduce idle fuel costs, the TINKO RS007-FS is the ultimate parking air conditioner battery replacement for 24V systems.

Key Features

High Capacity & Long Runtime: 314Ah / 8,038.4Wh — powers truck parking air conditioners for extended hours

LiFePO₄ Technology: Safe, stable, and long-lasting lithium iron phosphate chemistry

Intelligent BMS Protection: Overcharge, over-discharge, short-circuit, overcurrent, and temperature protection

Wide Operating Temperature: Discharge from -20°C to 60°C; Charge from 0°C to 55°C

High Discharge Current: 200A continuous, 400A peak (3-5 seconds) for starting and heavy loads

Multiple Size Options: Available in three dimensions to fit various vehicle models

Heavy-Duty Design: Robust construction for demanding commercial applications

Technical Parameters

Model	RS-007P
Battery Type	LiFePO ₄ (Lithium Iron Phosphate)
Nominal Capacity	314AH
Nominal Voltage	25.6V
Total Energy	8038.4Wh
Charge Voltage	28.4-29.2V
Max. Charge Current	200A
Max. Continuous Discharge Current	200A
Peak Discharge Current	400A (3-5S)
Parking Air Conditioner Discharge Cut-off Voltage	22V
Parking Air Conditioner Reconnect Voltage	25.6±0.5V
Parking Air Conditioner Output Current	≤200A
Discharge Cut-off Voltage	22V
Dimension	523*334*237MM
Weight	58kg
Discharge Temperature Range	-20 -60
Charge Temperature Range	0 -55
Storage Temperature	-5 -35

Product Advantages

Massive Energy Capacity for Extended Runtime

With 314Ah capacity and 8.0kWh of stored energy, the TINKO RS007-FS provides ample power to run your parking air conditioner, refrigerator,

and other cabin appliances throughout the night. Experience uninterrupted comfort during rest breaks without the noise, fumes, or fuel costs of engine idling.

Superior LiFePO4 Safety & Longevity

Unlike traditional lead-acid batteries, the LiFePO4 chemistry offers exceptional thermal and chemical stability, virtually eliminating the risk of thermal runaway, fire, or explosion. This translates to a significantly longer service life, lower total cost of ownership, and peace of mind on the road.

Intelligent Battery Management System (BMS)

The built-in smart BMS continuously monitors and protects the battery against:

- Overcharge and over-discharge
- Short circuits and overloads
- Overcurrent and excessive temperatures
- Automatic disconnection in fault conditions

This ensures optimal performance, extends battery life, and provides comprehensive safety protection.

Reliable Performance in Extreme Conditions

Designed for the harsh realities of commercial trucking and overland travel, the RS007-FS operates reliably in discharge temperatures from -20°C to 60°C and charges from 0°C to 55°C. Whether you're crossing frozen highways or traversing desert routes, this battery delivers consistent, dependable power.

High Power Output for Demanding Applications

With 200A continuous discharge current and a 400A peak current (3-5 seconds), the RS007-FS easily handles the startup surge of parking air conditioners and supports simultaneous operation of multiple onboard appliances.

Fuel Savings & Environmental Benefits

By powering your cab comfort systems with the TINKO RS007-FS instead of idling the engine, you can achieve substantial fuel savings, reduce emissions, and comply with increasingly stringent anti-idling regulations.

Versatile Application Compatibility

The TINKO RS007-FS is ideal for:

- Truck parking air conditioner systems
- Semi-truck sleeper cab cooling
- RVs and campervans
- Commercial vehicle auxiliary power
- Off-grid power systems
- Marine and boating applications

Frequently Asked Questions

How long can the TINKO RS007-FS run a parking air conditioner?

The runtime depends on your air conditioner's power consumption. A typical truck parking air conditioner draws approximately 800W-1,200W. With 8.0kWh of usable energy, the RS007-FS can power an 800W AC unit for 8-10 hours and a 1,000W unit for approximately 7-8 hours on a full charge. Actual runtime may vary based on ambient temperature, thermostat settings, and additional loads.

What is the difference between LiFePO4 and lead-acid batteries for parking air conditioners?

LiFePO4 batteries like the TINKO RS007-FS offer numerous advantages over traditional lead-acid batteries: higher energy density (more power in less space), lighter weight (up to 70% lighter), longer cycle life (3,000+ cycles vs. 300-500 cycles), deeper discharge capability (80-100% DoD vs. 50% for lead-acid), faster charging, and superior safety. While the upfront cost is higher, the total cost of ownership is significantly lower over the battery's lifespan.

What vehicles is the RS007-FS compatible with?

The RS007-FS is designed for 24V electrical systems and is compatible with most semi-trucks, heavy-duty trucks, RVs, campervans, delivery vans, and commercial vehicles with parking air conditioner installations. Please verify your vehicle's voltage requirements and available space before purchase. Multiple size options are available to accommodate different mounting configurations.

Does the battery come with a Battery Management System (BMS)?

Yes, the TINKO RS007-FS features a built-in intelligent BMS that provides comprehensive protection against overcharge, over-discharge, short circuits, overcurrent, and temperature extremes. The BMS ensures safe, reliable operation and maximizes battery lifespan.

What is the expected lifespan of this battery?

With proper use and maintenance, LiFePO4 batteries like the RS007-FS typically deliver 3,000-6,000+ charge cycles. For a truck driver who uses the battery daily, this translates to 8-10+ years of reliable service—far exceeding the lifespan of lead-acid alternatives.

Can I use this battery for starting my truck engine as well?

The RS007-FS is primarily designed for parking air conditioner and auxiliary power applications with a maximum continuous discharge of

200A and peak of 400A (3-5 seconds). While it can support some starting applications, we recommend using a dedicated starter battery for engine cranking to ensure optimal performance and longevity for both systems.

What is the recommended storage temperature?

The recommended storage temperature for the TINKO RS007-FS is -5°C to 35°C. For long-term storage, we recommend storing the battery at approximately 50% state of charge in a cool, dry environment and recharging every 3-6 months.

How do I charge the TINKO RS007-FS?

The RS007-FS requires a charge voltage of 28.4V to 29.2V and supports a maximum charge current of 200A. We recommend using a compatible LiFePO4 battery charger with appropriate voltage and current settings. The battery can also be charged by the vehicle's alternator through a proper DC-DC charger setup.

Is this battery waterproof?

While the RS007-FS features a robust, sealed design suitable for demanding environments, please refer to the specific IP rating for detailed water and dust resistance specifications. We recommend installing the battery in a protected location away from direct water exposure.

What warranty does TINKO offer?

TINKO provides comprehensive warranty coverage for the RS007-FS. Please contact your TINKO authorized dealer or visit our official website for detailed warranty terms and conditions.

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