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ShunTongDa 48V21Ah

ShunTongDa 48V 21Ah Ebike Battery Pack Instruction Manual

Model: 48V21Ah

IMPORTANT SAFETY INFORMATION

Read all safety instructions carefully before using the battery pack. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, puncture, or modify the battery pack.
- Keep the battery away from fire, heat sources, and direct sunlight.
- Use only the provided 2A charger. Using an incompatible charger may damage the battery and pose a fire risk.
- Avoid short-circuiting the battery terminals.
- Store the battery in a cool, dry place, away from moisture and corrosive substances.
- Keep out of reach of children and pets.
- If the battery emits an unusual odor, heat, or changes shape, discontinue use immediately and contact support.
- Dispose of the battery according to local regulations for lithium-ion batteries.

PRODUCT OVERVIEW

This manual provides instructions for the ShunTongDa 48V 21Ah Lithium-ion Ebike Battery Pack, designed for electric bicycles, tricycles, and motorcycles requiring 48V power. It features a robust Battery Management System (BMS) for enhanced safety and longevity.

Package Contents

- 1 x 48V 21Ah Lithium-ion Battery Pack
- 1 x 2A Charger
- 1 x User Manual

Key Features

- 48V 21Ah (21000mAh) high capacity.
- Integrated 30A Battery Management System (BMS) for protection against overcharge, over-discharge, overcurrent, short circuit, and abnormal temperature.

- Compatible with 48V controllers and motors ranging from 100W to 1200W.
- Includes DC charging port and XT60 conversion plug for versatile connectivity.
- Long cycle life exceeding 1000 charges for extended use.

Product Components



Image: The ShunTongDa 48V 21Ah Ebike Battery Pack shown with its included 2A charger. The battery is blue and rectangular, with output wires and a charging port. The charger is black.

SPECIFICATIONS

Feature	Detail
Model Number	48V21Ah
Battery Type	Lithium Ion
Nominal Voltage	48V
Capacity	21Ah (21000mAh)
Max Constant Discharge Current	30A

Feature	Detail
Compatible Motor Wattage	100W - 1200W
Charger Output	54.6V 2A
Charging Time	Approximately 6-7 hours (with 2A charger)
Dimensions (L x W x H)	13.78 x 4.53 x 2.36 inches (350 x 115 x 60mm)
Weight	Approximately 8.2 lbs (3.72 kg)
Cycle Life	>1000 cycles
BMS Protection	Overcharge, Over-discharge, Overcurrent, Short Circuit, Abnormal Temperature

Dimensional Diagram

HIGH PERFORMANCE

<p>Capacity: 48V21Ah</p> <hr/> <p>Charger Current: 2-5A</p> <hr/> <p>Composed Type: 13s6p</p> <hr/> <p>Continuous Discharge Current: 30AMP for 250-1000W motor</p> <hr/> <p>Product size: 13.78*4.53*2.36 inch / 350*115*60mm</p> <hr/> <p>Product Weight: 8.2lb / 3.72kg</p>	<p>Charger: 54.8V 2A</p> <hr/> <p>Charger Times: 6-7 hours</p> <hr/> <p>Composed Type: 1000+</p> <hr/> <p>Battery Type: Lithium Battery</p>
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Image: A diagram illustrating the dimensions of the 48V 21Ah battery pack: 350mm length, 115mm width, and 60mm height. Key specifications like capacity, charger type, and continuous discharge current are also listed.

SETUP AND INSTALLATION

Compatibility Check

Before installation, confirm the battery is compatible with your electric bicycle or device. Incorrect compatibility can lead to damage or malfunction.

- Your controller's voltage must be 48 Volt.
- Your controller's rated current should be $\leq 30A$.
- Your motor wattage should be between 100W and 1200W.
- The battery dimensions (13.78 x 4.53 x 2.36 inches / 350 x 115 x 60mm) must fit your device's battery compartment or bag.
- The XT60 conversion plug must be compatible with your device's connector.

Installation Steps

1. Carefully place the battery pack into the designated battery bag or box on your e-bike. Ensure it is secured to prevent movement during operation.
2. Connect the battery's output terminal (T-plug or XT60 via conversion plug) to your e-bike's motor controller. Ensure a secure connection.
3. Verify all connections are tight and correct before attempting to power on your e-bike.

Connector Types



T Plug
Output terminal



DC
Charging port



T Plug
Conversion plug



XT 60
Conversion plug



Charger
≤5A

Image: Various connectors and the charger included with the battery pack. These include a T-Plug output terminal, a DC charging port, a T-Plug conversion plug, an XT60 conversion plug, and the 2A charger.

OPERATING INSTRUCTIONS

Charging the Battery

1. Connect the 2A charger to a standard AC power outlet.
2. Connect the charger's DC output plug to the DC charging port on the battery pack.
3. The charger's indicator light will typically show red during charging and turn green when fully charged.
4. Disconnect the charger from the battery and then from the power outlet once charging is complete.
5. Charging time is approximately 6-7 hours for a full charge from empty.

Discharging the Battery

Once installed and connected, the battery will power your e-bike when the system is turned on. Monitor your e-bike's battery indicator (if available) to avoid complete discharge, which can reduce battery lifespan. It is recommended to recharge the battery before it is fully depleted.

Recommended Usage

- This battery pack is suitable for various electric vehicles including e-bikes, electric tricycles, electric motorcycles,

and electric mountain bikes.

- Ensure the motor wattage of your device is within the 100W-1200W range for optimal performance and battery life.

Applicable Equipment



Image: Examples of equipment compatible with the battery pack, including an e-bike, electric dirt bike, electric motorcycle, and electric golf cart.

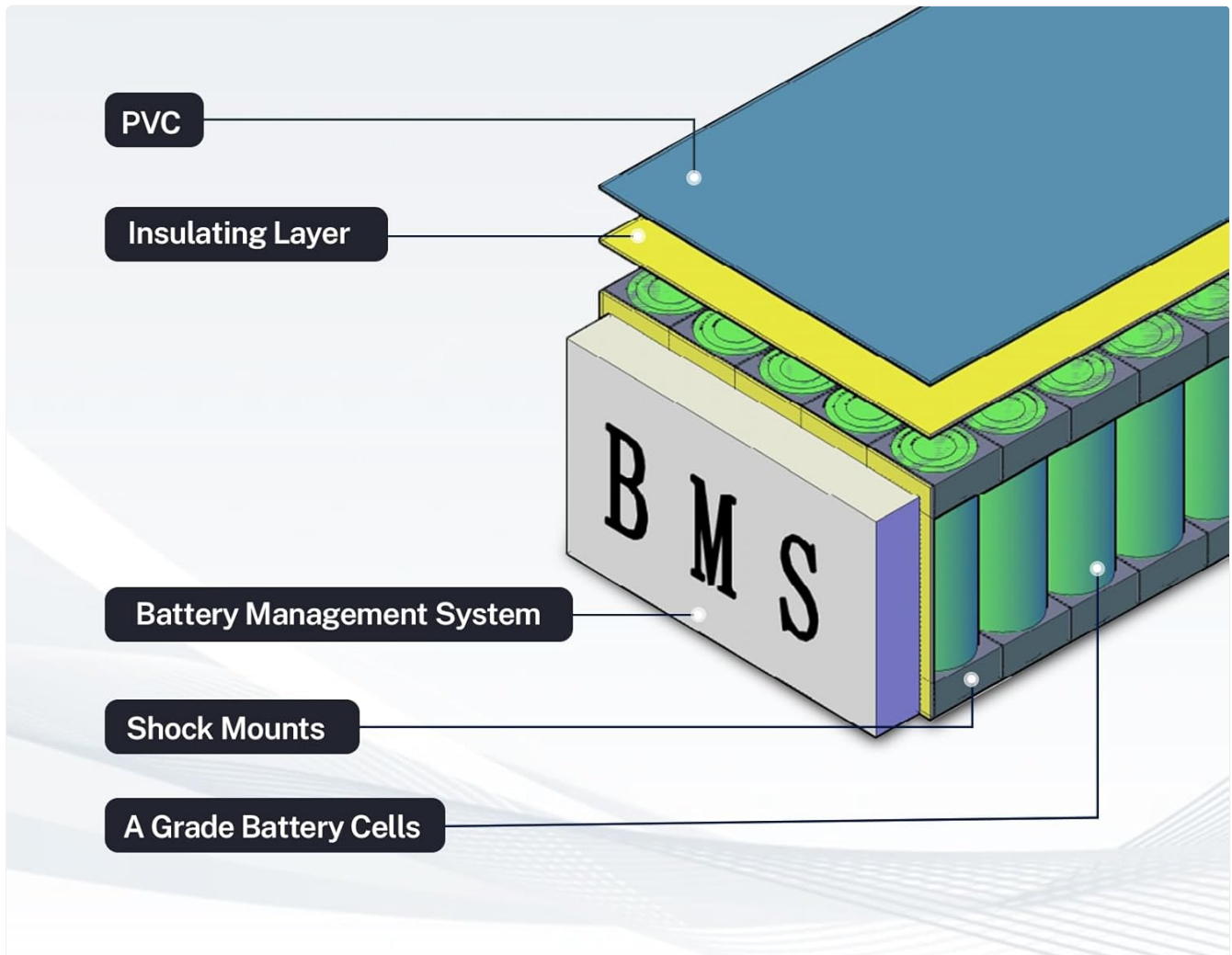
MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your battery pack.

- **Regular Charging:** Do not allow the battery to remain fully discharged for extended periods. Charge it regularly, even if not in daily use, to maintain cell health.
- **Storage:** If storing the battery for a long time (e.g., over a month), charge it to approximately 50-60% capacity. Store it in a cool, dry place (0°C to 20°C or 32°F to 68°F). Avoid extreme temperatures, both hot and cold.
- **Cleaning:** Keep the battery pack clean and dry. Use a soft, dry cloth to wipe off any dust or dirt. Do not use water or other liquids directly on the battery.

- **Inspection:** Periodically inspect the battery pack and connectors for any signs of damage, corrosion, or loose connections. Address any issues promptly.
- **Avoid Impact:** Protect the battery from physical shocks or impacts, which can damage internal components.

Battery Management System (BMS)



ENHANCED SAFETY & SUPERIOR QUALITY

The battery features a fuse and a BMS protective board, ensuring safety and longevity. These components prevent overcharging, over-discharging, over-current, and short circuits, thereby extending the battery's lifespan.

Image: An exploded view diagram showing the internal components of the battery pack, highlighting the PVC casing, insulating layer, Battery Management System (BMS), shock mounts, and A-grade battery cells. This illustrates the safety features.

Multiple Protection Features

Multiple intelligent security protections

Unleash reliable power with multiple layers of protection



Short circuit
Protection



Overvoltage
Protection



Charge reverse
Protection



Over discharge
Protection



Over heating
Protection



Overcurrent
Protection

Image: A visual representation of the multiple intelligent security protections provided by the battery's BMS, including short circuit protection, overvoltage protection, charge reverse protection, over-discharge protection, overheating protection, and overcurrent protection.

TROUBLESHOOTING

If you encounter issues with your battery pack, refer to the following common problems and solutions.

Battery Not Charging

- Ensure the charger is properly connected to both the AC power outlet and the battery's DC charging port.
- Check if the power outlet is functional by testing it with another device.
- Verify the charger's indicator light. If it doesn't light up or stays green immediately upon connection to a depleted battery, the charger or battery might have an issue.
- Inspect the charging port on the battery and the charger cable for any visible damage or debris.

Battery Not Powering Device

- Check if the battery is fully charged. A low charge level may prevent operation.
- Ensure all connections between the battery's output terminal and the e-bike's controller are secure and correctly seated.
- Verify that the e-bike's power switch is in the "ON" position.
- Confirm compatibility: Ensure your e-bike's motor wattage and controller current are within the battery's specified operating range (100W-1200W motor, ≤30A controller).

Reduced Range or Performance

- This could indicate the battery is aging. Lithium-ion batteries naturally degrade over time and with usage cycles.
- Ensure the battery is fully charged before each use.
- Environmental factors like cold weather can temporarily reduce battery performance and range.
- Check for excessive load on the motor, such as riding uphill frequently or carrying heavy loads, which can deplete the battery faster.

If issues persist after following these steps, please contact customer support for further assistance.

WARRANTY AND SUPPORT

Warranty Information

The ShunTongDa 48V 21Ah Ebike Battery Pack comes with a 12-month warranty from the date of purchase, covering manufacturing defects.

A 30-day free return/replacement policy is also offered for initial product issues.

Customer Support

For any questions, concerns, or issues regarding your battery pack, please contact ShunTongDa customer service. We are committed to providing high-quality products and support.

To protect your interests, please click on "Get help with order" on your order page and leave a message. Our customer service team aims to reply within 12 hours to assist you.

For more information and additional products, visit the official ShunTongDa store: [ShunTongDa Store](#).