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› YinZhiBoo Ebike Battery 48V 17.5A Li-ion (Model Sea Dragon PLUS (V1)) User Manual

YinZhiBoo Sea Dragon PLUS (V1)

YinZhiBoo Ebike Battery User Manual

Model: Sea Dragon PLUS (V1)

1. PRODUCT OVERVIEW

This manual provides instructions for the YinZhiBoo 48V 17.5A Lithium-ion Ebike Battery, Model Sea Dragon PLUS (V1). This battery is designed for electric bicycles and compatible with motors ranging from 250W to 1000W.

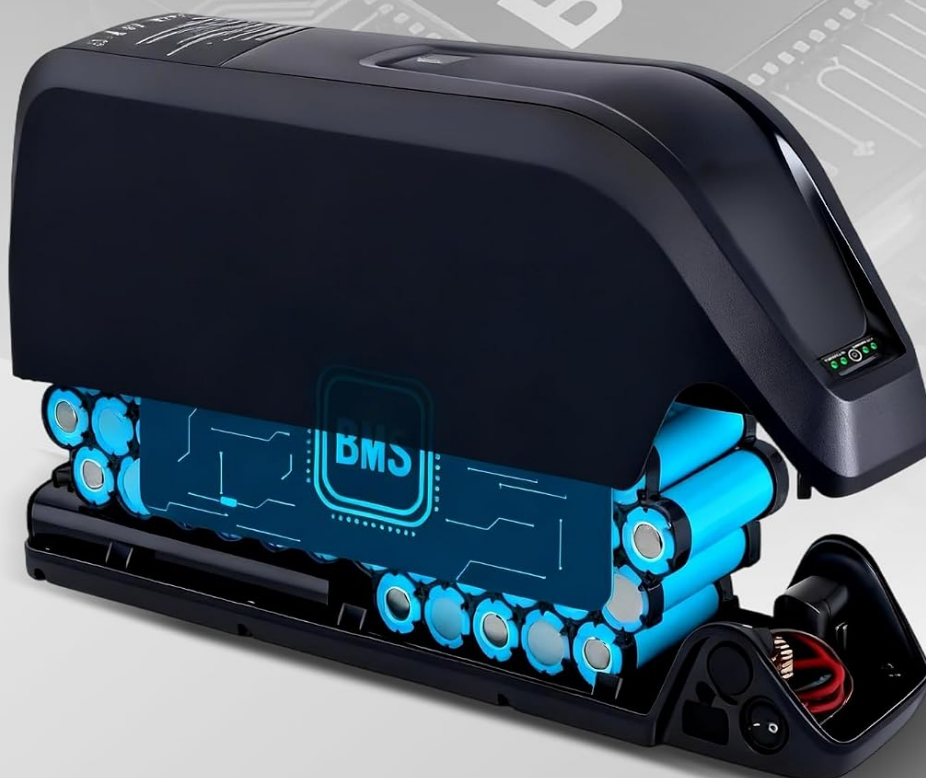


Image 1.1: YinZhiBoo Ebike Battery with internal structure highlighting the Battery Management System (BMS) and its protective features. The BMS provides overcurrent, overvoltage, overcharge, overpower, over-discharge, and short-circuit protection.

Key Features:

- **Integrated BMS:** Provides comprehensive protection against overcurrent, overvoltage, overcharge, overpower, over-discharge, and short circuits.
- **Convenient On/Off Switch:** Allows for power saving and easy control.
- **Security Lock:** A key-operated lock secures the battery to the bike frame, preventing theft.
- **Battery Indicator Light:** Displays remaining charge level.
- **High-Rate, Low Internal Resistance Cells:** Contributes to efficient power delivery.

GREEN AND SAFT



Overcurrent
Protection



Overvoltage
Protection



Overcharge
Protection



Overpower
Protection



Over discharge
Protection



Short circuit
Protection

Image 1.2: Detailed view of the battery's external features including the key switch for security, the battery indicator lights (1 Red 3 Green = 100%, 1 Red 2 Green = 75%, 1 Red 1 Green = 50%, 1 Red 0 Green = 25%), and the charge socket. The charge current for this socket should not exceed 5 Amps. Also shown is the internal arrangement of high-rate, low internal resistance cells.

Your browser does not support the video tag.

Video 1.1: This video demonstrates the production process of the battery, showcasing the assembly of internal components and quality control measures.

2. SAFETY INFORMATION

Read all safety warnings and instructions before using the battery. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- Do not immerse the battery in water or expose it to rain.
- Do not use or store the battery near heat sources, open flames, or in direct sunlight.
- Use only the charger specified by the manufacturer.

- Do not short-circuit the battery terminals.
- Do not puncture, hit, or drop the battery.
- Keep the battery out of reach of children.
- If the battery leaks, avoid contact with the liquid. If contact occurs, wash with plenty of water and seek medical attention.
- Dispose of used batteries according to local regulations.

3. SETUP AND INSTALLATION

The battery is designed for secure mounting on your electric bicycle frame. Follow these steps for proper installation:

1. Ensure your e-bike is turned off and the power is disconnected.
2. Mount the battery base plate securely to the bicycle frame using the provided hardware. Ensure it is firmly attached and does not wobble.
3. Align the battery with the base plate.
4. Slide the battery onto the base plate until it clicks into place.
5. Use the key to lock the battery to the frame for security.
6. Connect the battery's power cable to your e-bike's motor system.



Image 3.1: Visual guide for battery installation. It illustrates the process of attaching the mounting plate to the bike frame, then sliding the battery onto the plate and securing it.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

To power on the battery, press the on/off button located on the battery casing. To power off, press the button again. Always turn off the battery when not in use to conserve power.

4.2 Battery Indicator

The battery indicator lights provide an estimate of the remaining charge:

- **1 Red 3 Green:** Approximately 100% charge.
- **1 Red 2 Green:** Approximately 75% charge.
- **1 Red 1 Green:** Approximately 50% charge.
- **1 Red 0 Green:** Approximately 25% charge.

4.3 Charging the Battery

Charge the battery using the provided charger. The charging process typically takes 4-6 hours for a full charge. The battery features an IP65 waterproof design, but ensure the charging port is dry before connecting the charger.

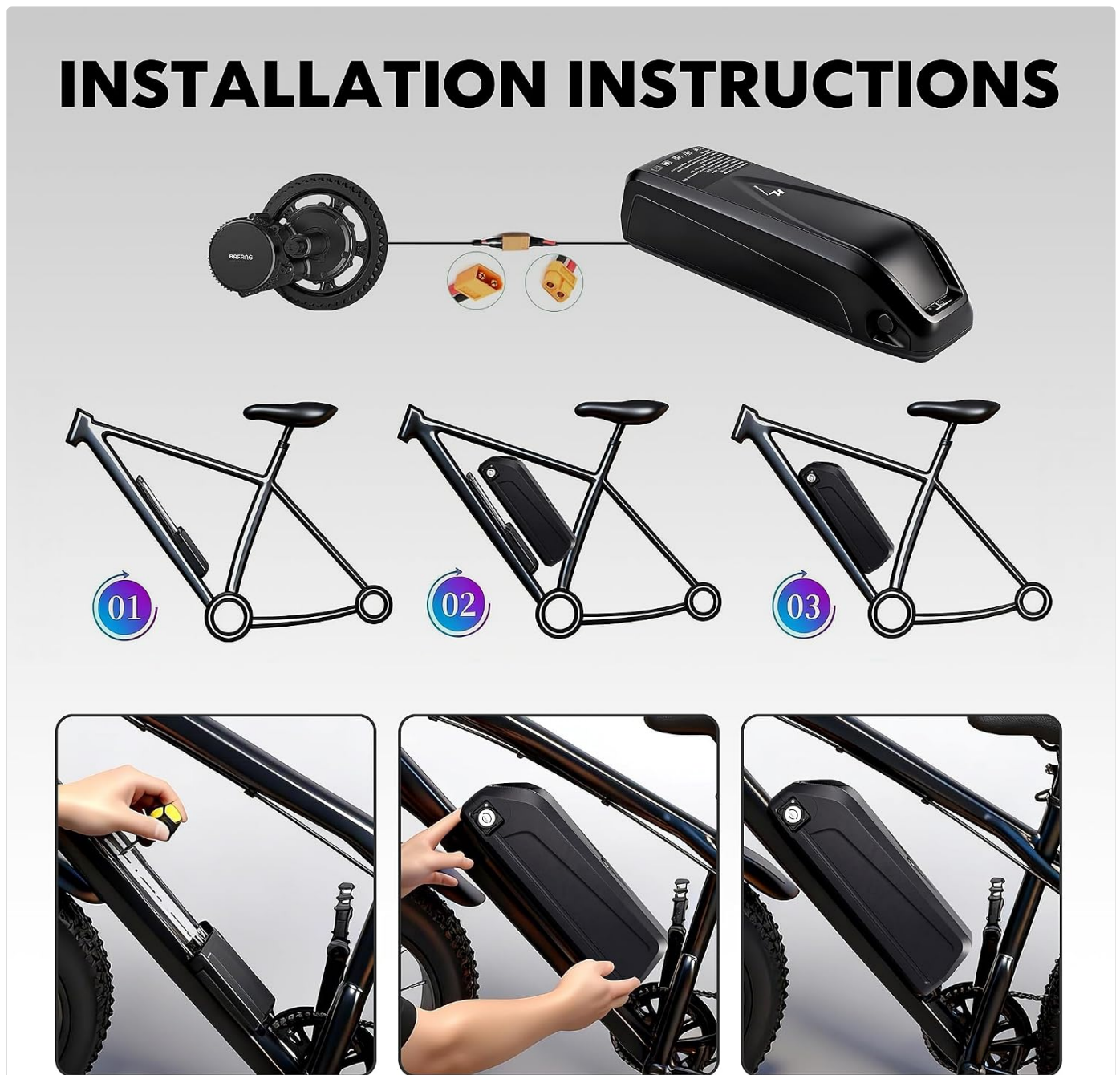


Image 4.1: Illustration of the battery charging process. The battery is connected to a charger, which is then plugged into a standard wall outlet. The image highlights the 4-6 hours fast charging capability and the IP65 waterproof design.

Important Charging Notes:

- Only use the charger supplied by YinZhiBoo.
- Do not exceed a charge current of 5 Amps through the charge socket.
- Charge the battery in a well-ventilated area.
- Do not leave the battery charging unattended for extended periods.

5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your battery.

- **Cleaning:** Wipe the battery exterior with a dry or slightly damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the charging port is clean and free of debris.
- **Storage:** If storing the battery for an extended period, charge it to approximately 50-70% capacity. Store in a cool, dry place away from direct sunlight and extreme temperatures (0°C to 20°C is ideal). Recharge every 2-3 months to prevent deep discharge.
- **Temperature:** Avoid operating the battery in extremely hot or cold conditions, as this can affect performance and lifespan.

6. TROUBLESHOOTING

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

- **Battery not powering on:**
 - Ensure the battery is charged.
 - Check if the on/off switch is in the 'on' position.
 - Verify that the battery is securely locked and connected to the e-bike.
- **Battery not charging:**
 - Confirm the charger is properly connected to both the battery and the power outlet.
 - Check if the power outlet is functional.
 - Ensure the charging port on the battery is clean and free of obstructions.
 - Verify that you are using the correct charger for this battery model.
- **Reduced range or power:**
 - The battery may not be fully charged.
 - Operating in extremely cold temperatures can temporarily reduce performance.
 - Battery degradation over time is normal.

If problems persist, contact customer support.

7. SPECIFICATIONS

Specification	Value
Brand	YinZhiBoo
Model Number	Sea Dragon PLUS (V1)
Battery Cell Type	Lithium Ion
Voltage	48 Volts
Amperage	17.5 Amps
Battery Weight	4 Kilograms
Reusability	Rechargeable
Recommended Uses	Bicycle

Compatible Bike Models	XDC600
Manufacturer	Zhuhai Jiaxinde Technology Co., LTD
GTIN / UPC	762849083537



Image 7.1: The YinZhiBoo Ebike Battery is suitable for various electric vehicles, including electric bicycles, electric mountain bikes, electric scooters, and electric tricycles.

EBIKE BATTERY

**ELECTRIC
BICYCLE**

**ELECTRIC
MOUNTAIN BIKE**

**ELECTRIC
SCOOTER**

**ELECTRIC
TRICYCLE**



Image 7.2: The 48V 17.5A E-bike battery installed on an electric bicycle, demonstrating its integration and use.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

This YinZhiBoo Ebike Battery comes with a **1-year warranty** from the date of purchase. The warranty covers manufacturing defects under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

8.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your YinZhiBoo Ebike Battery, please contact our customer support team. Refer to your purchase documentation for specific contact details or visit the official YinZhiBoo website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

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Details

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