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› YS YOSE POWER 48V 15AH Lithium Ebike Battery Instruction Manual

YS YOSE POWER AN 48V15Ah

YS YOSE POWER 48V 15AH Lithium Ebike Battery Instruction Manual

Model: AN 48V15Ah

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your YS YOSE POWER 48V 15AH Lithium Ebike Battery. Please read these instructions carefully before installation and operation to ensure optimal performance and longevity of your battery.



Image 1.1: The YS YOSE POWER 48V 15AH Lithium Ebike Battery with its dedicated charger.

2. PRODUCT FEATURES

- **High Capacity:** 48V 15Ah lithium battery designed for electric bicycles, offering enhanced durability and extended cycling life.
- **Extended Range:** A single charge can provide a range of 50-175 kilometers with a PAS sensor, depending on riding conditions, road conditions, and rider weight.
- **Advanced BMS Protection:** Features a built-in 30A Battery Management System (BMS) for short circuit protection, overcharge protection, over-discharge protection, and temperature protection.
- **Secure Lock Design:** Integrated lock mechanism helps prevent theft and controls battery power.
- **Status Indicator:** A light indicator shows the battery charge level.
- **Motor Compatibility:** Compatible with ebike motors ranging from 0W to 1000W.
- **USB Charging Port:** Includes a 5V1A USB output for charging mobile devices.

3. WHAT'S IN THE BOX

Upon unpacking, please ensure all the following items are present:

- Battery Pack (x1)
- Battery Holder Base (x1)
- Charger (x1)

- Keys (x2)
- Extra Fuses (x2)
- Discharge Plug (x1)
- User Manual (x1)

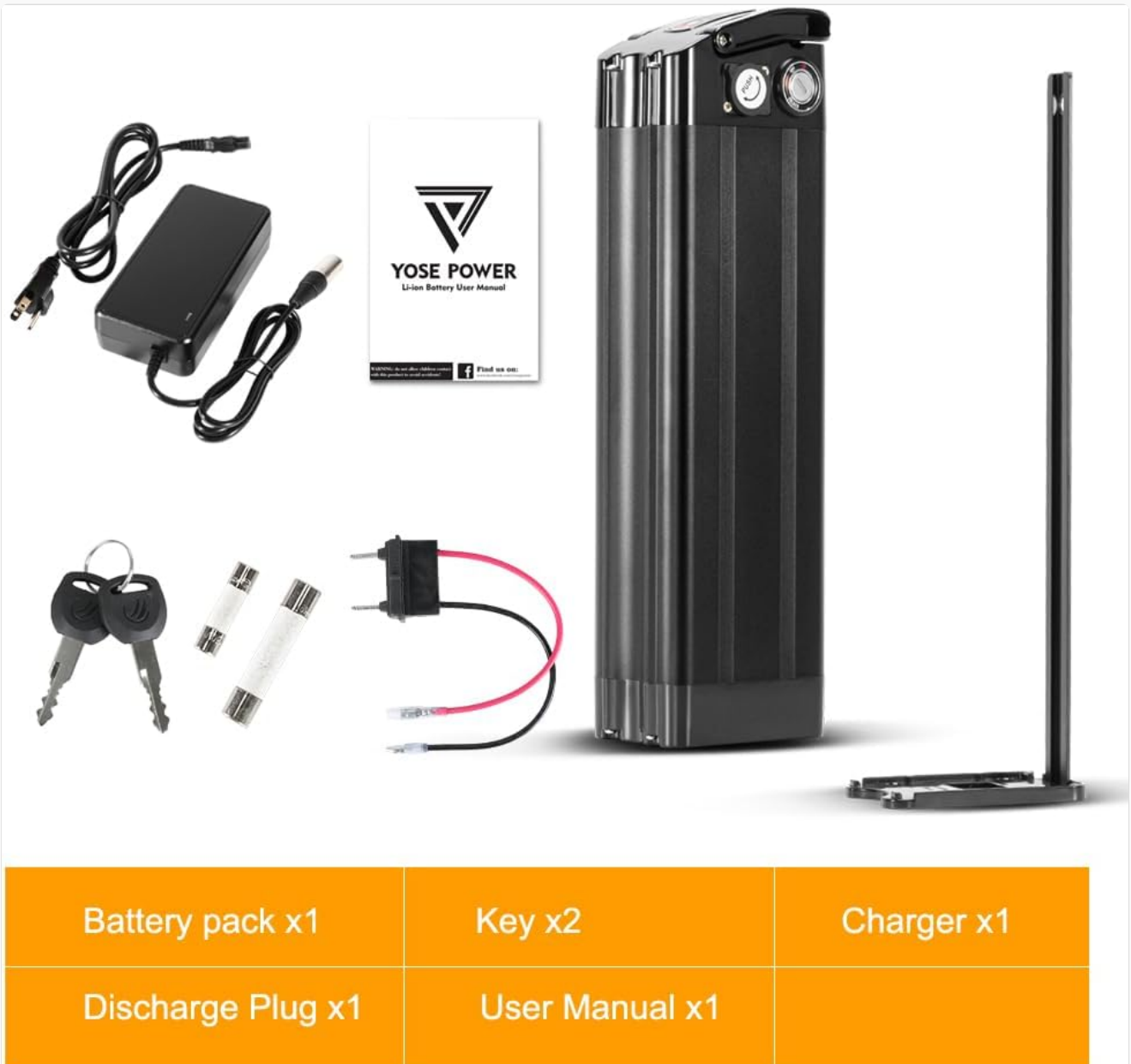


Image 3.1: All components included in the YS YOSE POWER 48V 15AH Lithium Ebike Battery package.

4. SETUP AND INSTALLATION

The battery is designed for seat tube installation. Follow these steps for proper setup:

1. Use the provided keys to unlock the battery holder base.
2. Remove the battery holder base from the battery unit.
3. Install the battery holder base securely onto your bicycle's seat tube.
4. Slide the battery unit onto the installed holder base until it locks into place.
5. Ensure the discharge port (2-pins) is correctly aligned and connected to your ebike's system.

Seat Tube Battery

48V15Ah



Image 4.1: The YS YOSE POWER battery designed for seat tube mounting.

Installation Example



Image 4.2: Visual guide for installing the battery onto the bicycle seat tube.

5. OPERATION

5.1 Charging the Battery

The battery takes approximately 8 hours to fully charge with the included 2A charger (Model: DPLC110V55).

1. First, connect the charger's output connector pin to the battery's charge socket.
2. Next, plug the charger into an alternating current (AC) power supply.
3. During charging, the indicator light on the charger will be red.
4. Once fully charged, the indicator light will turn green.
5. To disconnect, first unplug the charger from the AC power supply, then disconnect the charger from the battery.




Image 5.1: The YS YOSE POWER battery charger (Model DPLC110V55).

5.2 Battery Level Indicator

Press the power button twice on the battery to activate the status indicator light. The light will turn off automatically after two seconds.

- **Green Light:** Approximately 100% charge.
- **Yellow Light:** Approximately 50% charge.
- **Red Light:** Approximately 20% charge.

Battery Level Light

Press the  button the light will turn on

-    100%
-   50%
-  20%



Image 5.2: Close-up of the battery showing the power button and charge level indicator lights.

5.3 Safe Lock and Power Control

The integrated lock secures the battery to the frame and also functions as a power switch for the battery.

Safe Lock

Lock, use to lock the battery on the frame and turn off and on the battery power.



Charge Socket

The charge current for this socket can not be more than 5amps.

Image 5.3: Details of the battery's safe lock mechanism and the charge socket.

5.4 USB Charge Socket and Discharge Port

The battery includes a USB charge socket with a 5V1A output for charging external devices like mobile phones. The main discharge port is a 2-pin connector. Ensure your controller's cable matches the battery's discharge cable, paying attention to '+' and '-' polarity.

USB Charge Socket

Can be used to charge cell phone.
The Output is 5V1A



Discharge Socket

Please use our discharge cable connect to your controller. If you do not use our cable, please ensure your cable “+” and “-” is same as our battery.

Image 5.4: Close-up view of the USB charge socket and the main discharge port on the battery.

6. SPECIFICATIONS

Feature	Specification
Battery Type	Lithium Ion
Voltage	48V
Capacity	15Ah
BMS	30A
Standard Discharge Current	10A
Max Discharge Current	30A
Charger Output	54.6V 2A

Charging Time	Approx. 8 hours (with 2A charger)
USB Output	5V 1A
Motor Compatibility	0-1000W
Product Dimensions (H x W x L)	14 x 3 x 4.3 inches (358 x 75 x 111 mm)
Item Weight	11.2 pounds (5.08 kg)
Cycle Life	1000+ cycles



48V15Ah
Voltage&Capacity

3.3kg
Weight(with holder)

721Wh
Energy

1000+
Cycle Life(time)

8 hours
Charge Time

54-180km
Driven Distance

- Use in bicycles: MiFa, Rex, Prophete, Aldi
- Use in bicycles(UK): Avocet,Viking, Byocycles
- Replaceable battery brand and model: Phylion/XH370-10J,Zhenlong/ZL1010-F

Image 6.1: Detailed dimensions and key specifications of the battery.

6.1 Performance Overview

The actual driven distance can vary based on factors such as rider weight, terrain, and assistance level (PAS sensor usage).

Driven Distance



48V15Ah

POWER

50-55km

ECO

175-180km

Test condition

Temperature: 20° Weight: 70kg Max Motor: 48V1000W Pedal assist

Image 6.2: Chart illustrating potential driven distances under different power modes (e.g., ECO vs. POWER).

7. SAFETY INFORMATION AND CHARGER INSTRUCTIONS

Your YS YOSE POWER battery and charger are designed with safety in mind. Please adhere to the following guidelines to prevent hazards and ensure safe operation.

7.1 Important Safety Instructions for Charger (Model: DPLC110V55)

- **SAVE THESE INSTRUCTIONS:** This document contains important safety and operating instructions for the charger.
- **RISK OF FIRE OR ELECTRIC SHOCK:** Follow instructions carefully to reduce these risks.
- **HIGH VOLTAGE:** The charger contains high voltage. Do not attempt to open it.
- **INDOOR USE ONLY:** The charger is designed for indoor use only.
- **NON-RECHARGEABLE BATTERIES:** Do not attempt to recharge non-rechargeable batteries.

- **CONTACT MANUFACTURER:** If problems occur, contact the manufacturer or retail dealer.
- **SUPERVISION:** This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless supervised or instructed by a responsible person. Children should be supervised to ensure they do not play with the appliance.
- **POWER OUTLET:** If the plug shape does not fit the power outlet, use an appropriate attachment plug adapter.
- **DAMAGED CORD:** If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.
- **CHARGING LOCATION:** Never place batteries on the charger during charging.

7.2 Environmental Disposal

Do not dispose of electrical appliances as unsorted municipal waste. Use separate collection facilities. Contact your local government for information regarding available collection systems. Improper disposal can lead to hazardous substances leaking into groundwater, damaging health and well-being.

Li-ion Battery Charger Instructions
Manufacturer: Wu Xi Dpower Electronic Co., Ltd.
Model: DPLC110V55

1.Characteristics
This manufacture is an intelligent charger, which employs the technology of power switching and is designed specifically for Li-ion battery charger. Its advantages are as follows:
(1) For different export regions, the product input voltage is as follows:
CE input voltage:110-240Vac
SAA input voltage:180-240Vac
FCC input voltage:100-240Vac
CUL input voltage:120Vac

(2) Low noise.
(3) Short circuit of electric is zero, permits a long time of short circuit.
(4) Adopt entire hermetic sea long instructor, could be used safely.
(5) Meet all the requirements set by the European Union RoHS instructions.


2.Applicability
The manufacture is designed to charge 13 batteries, 54.6±0.2v, Li-ion battery pack.

3.Usage
(1) Connect the connector pin of battery case firstly, and then the alternating current power supply.
(2) When in charge process, the charging indicator light shows red; after fully charged, the charging indicator light shows green.
(3) When the batteries are fully charged, (When the Green light is on), unplug the connector pin of alternating current power supply firstly, and then that of battery case.

4.Trouble removal
(1) The power indicator light does not illuminate.
A. Check whether there is alternating current power supply.
B. Check whether the connection is bad at the input interface.
When you eliminate the conditions above, please ask for help from the manufacturers: do not attempt to repair it by yourself.
(2) The charging indicator light is not work.
A.Check whether the output connector is well connected.
B.Check whether the battery can be used.
When you eliminate the conditions above, please ask for help from the manufacturers; do not attempt to repair it by yourself.

(3) The charging indicator light is always red.
A. See whether the battery is damaged.
When you eliminate the conditions above, please ask for help from the manufacturers; do not attempt to repair it by yourself.

5.Attention
(1) **IMPORTANT SAFETY INSTRUCTIONS-
SAVE THESE INSTRUCTIONS**
(2) **DANGER-TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THE SEINSTRUCTIONS**
(3) There is high voltage inside the charger. Do not attempt to open it.
(4) The charger is designed for indoor use only.
(5) Do not attempt to recharge any non-rechargeable batteries.
(6) Contact the manufacturers or retail dealers if there are any problems.
(7) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
(8) Children should be supervised to ensure that they do not play with the appliance.
(9) If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet.
(10) If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
(11) Please let them put on paper inbox: never put batteries on charger during charging.



Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available.
If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

Image 7.1: Original instructions for the DPLC110V55 charger, including safety guidelines and troubleshooting.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your battery and charger.

8.1 Charger Indicator Light Issues

- **If the power indicator light does not illuminate:**
 - Check for AC power supply.
 - Verify the input interface connection.
- **If the charging indicator light is not working:**
 - Ensure the output connector is properly connected.

- Check if the battery is functional.
- **If the charging indicator light is always red:**
 - Inspect the battery for potential damage.

For any persistent issues after checking these points, do not attempt to repair the unit yourself. Please contact the manufacturer for assistance.

8.2 General Battery Issues

- **Battery not powering on:** Ensure the battery is fully charged and properly locked into its base. Check all connections to the ebike.
- **Reduced range:** Factors like cold weather, aggressive riding, heavy loads, or aging can reduce range. Ensure the battery is fully charged before each ride.

9. MAINTENANCE

Proper maintenance ensures the longevity and performance of your YS YOSE POWER battery.

- **Regular Charging:** Charge the battery regularly, even if not in use, to maintain its health. Avoid completely draining the battery.
- **Storage:** If storing the battery for an extended period, charge it to approximately 50-70% and store it in a cool, dry place away from direct sunlight and extreme temperatures. Recharge every 1-2 months.
- **Cleaning:** Keep the battery and its contacts clean and dry. Use a soft, dry cloth to wipe away dust or dirt. Avoid using water or harsh chemicals.
- **Inspection:** Periodically inspect the battery casing, cables, and connectors for any signs of damage or wear. Do not use a damaged battery.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or contact YS YOSE POWER customer service directly. Contact details can typically be found on the manufacturer's official website or through your point of purchase.