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AlveyTech 24BC3500T-4

AlveyTech 24 Volt 3.5 Amp XLR Battery Charger User Manual

Model: 24BC3500T-4

Introduction
Safety
Contents
Setup
Operation
Maintenance
Troubleshooting
Specifications
Warranty & Support

1. Introduction

This manual provides essential information for the safe and efficient use of your AlveyTech 24 Volt 3.5 Amp XLR Battery Charger (Model 24BC3500T-4). This charger is designed to provide a full charge for AGM/SLA batteries commonly found in mobility scooters, power chairs, and electric wheelchairs. Please read this manual thoroughly before operating the charger.



Image 1.1: The AlveyTech 24 Volt 3.5 Amp XLR Battery Charger. This image shows the charger unit with its power cord and XLR connector cable.

2. Safety Information

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

- **Indoor Use Only:** This charger is designed for indoor use. Do not expose to rain, moisture, or extreme temperatures.
- **Proper Ventilation:** Ensure adequate ventilation around the charger during operation. Do not cover the charger.
- **Battery Type:** This charger is specifically for 24V AGM/SLA (Sealed Lead-Acid) batteries. Do not attempt to charge other battery types.
- **XLR Connector:** Only use with devices equipped with a compatible 3-pin XLR charging port.
- **Avoid Damage:** Do not operate the charger if the cord, plug, or charger unit is damaged. Contact support for replacement.
- **Children and Pets:** Keep the charger out of reach of children and pets.
- **Disconnect Power:** Always disconnect the charger from the power outlet before connecting or disconnecting from the battery.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



Image 2.1: Bottom view of the charger showing safety certifications and warnings. This image highlights the product's compliance markings and cautions.

3. Package Contents

Verify that all items are present and undamaged upon opening the package.

- AlveyTech 24 Volt 3.5 Amp Battery Charger (Model 24BC3500T-4)

The charger includes an integrated power cord and an XLR connector cable.

4. Setup

Follow these steps to prepare your charger for use:

1. **Unpack:** Carefully remove the charger from its packaging.
2. **Inspect:** Check the charger unit, power cord, and XLR connector for any signs of damage. Do not use if damaged.
3. **Placement:** Place the charger on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat sources, and moisture.



Image 4.1: Top view of the charger showing the power and charging indicator lights. These lights provide status feedback during operation.

5. Operating Instructions

This charger features automatic shut-off and is designed for ease of use.

5.1 Charging Your Battery

1. **Connect to Battery:** Locate the 3-pin XLR charging port on your mobility device. Firmly insert the charger's XLR connector into the device's charging port.
2. **Connect to Power:** Plug the charger's power cord into a standard 120V AC wall outlet.
3. **Monitor Charging:**
    - The **POWER** indicator light (usually green) will illuminate when the charger is connected to an active power source.
    - The **CHARGING** indicator light (usually red or amber) will illuminate when the battery is actively charging.
    - Once the battery is fully charged, the**CHARGING** indicator light will typically turn green or extinguish, indicating the automatic shut-off feature has engaged.
4. **Disconnect:** Once charging is complete, first unplug the charger from the wall outlet, then disconnect the XLR connector from your mobility device.



Image 5.1: Close-up view of the 3-pin XLR connector. This connector is standard for many mobility devices.



Image 5.2: The charger connected to a power chair for charging. This illustrates the typical setup during use.

5.2 Compatibility

This charger is compatible with a wide range of mobility scooters and power chairs from various brands. Refer to your device's manual to confirm the required charger specifications (24V, 3.5A, XLR connector).
Known compatible models include (but are not limited to):

- **Amigo Mobility:** Centra (310000), Fiesta One (810000)
- **Bruno:** Catalina 46, Cub 30, Cub 32, Cub 35, Cub Pediatric, Firefighter 46, Humvee 46, Police 46, PWC-2300, SuperCub 34, SuperCub 44, SuperCub 46, Thunder 37, Typhoon C3
- **C.T.M. Homecare:** HS-328
- **Dalton Medical:** Primechair
- **Golden:** Alante DX (GP204/GP215), LiteRider (GL110/GL111/GL140/GL141), LiteRider PTC (GP160), Liteway (GL100)
- **Invacare:** At'm QT Take Along Chair, At'm Take Along Chair, Pronto 31, Pronto M41 with SureStep
- **Jazzy:** Elite ES, Elite ES 1, Elite ES Portable, EVO 613, Select 6, Select 6 2.0, Select 6 Ultra, Select Elite, Select GT, Sport 2, Sport Portable, Zero Turn (ZT)

- **Merits:** Junior (P320/P3201/P32011/P32012), S637, Travel-Ease Regal (P120/P1201/P12011/P12012)
- **Metro Mobility:** MAX Plus
- **Pride:** Revo 2.0 (S66/S67), Sonic (SC50/SC52), TSS 300, Victory, Zero Turn 8
- **Shoprider:** Cutie L (TE-787LT), Dasher 9 (GK7-3), Sprinter XL4 (889B-4), Start (GK3), Start 8 (GK9), Sunrunner 3 (888B-3), Sunrunner 4 (888B-4)



Image 5.3: A visual representation of the charger's broad compatibility with various mobility device models.

6. Maintenance

Proper maintenance ensures the longevity and safe operation of your charger.

- **Cleaning:** Disconnect the charger from all power sources before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place when not in use. Avoid wrapping the cords tightly around the unit.

- **Cord Inspection:** Regularly inspect the power cord and XLR cable for cuts, fraying, or other damage. Replace the charger if any damage is found.

7. Troubleshooting

If you encounter issues with your charger, refer to the table below:

Problem	Possible Cause	Solution
Charger not powering on (no POWER light)	No power from outlet; damaged power cord/plug	Check wall outlet with another device; inspect power cord for damage.
CHARGING light not illuminating	XLR connector not fully inserted; battery fully charged; battery fault	Ensure XLR connector is secure; check battery status; consult mobility device manual for battery issues.
Charger gets excessively hot	Poor ventilation; internal fault	Ensure charger is in a well-ventilated area; discontinue use and contact support if overheating persists.

If the problem persists after attempting these solutions, contact customer support.

8. Specifications

Feature	Detail
Model Number	24BC3500T-4
Brand	AlveyTech
Input Voltage	120V AC (Standard US Outlet)
Output Voltage	24 Volts
Output Amperage	3.5 Amps
Wattage	84 watts
Connector Type	3-pin XLR
Compatible Battery Types	AGM/SLA (Sealed Lead-Acid)
Product Dimensions	9.5 x 4 x 3.5 inches (24.13 x 10.16 x 8.89 cm)
Item Weight	2.2 pounds (1 kg)
Special Feature	Automatic Shut-off

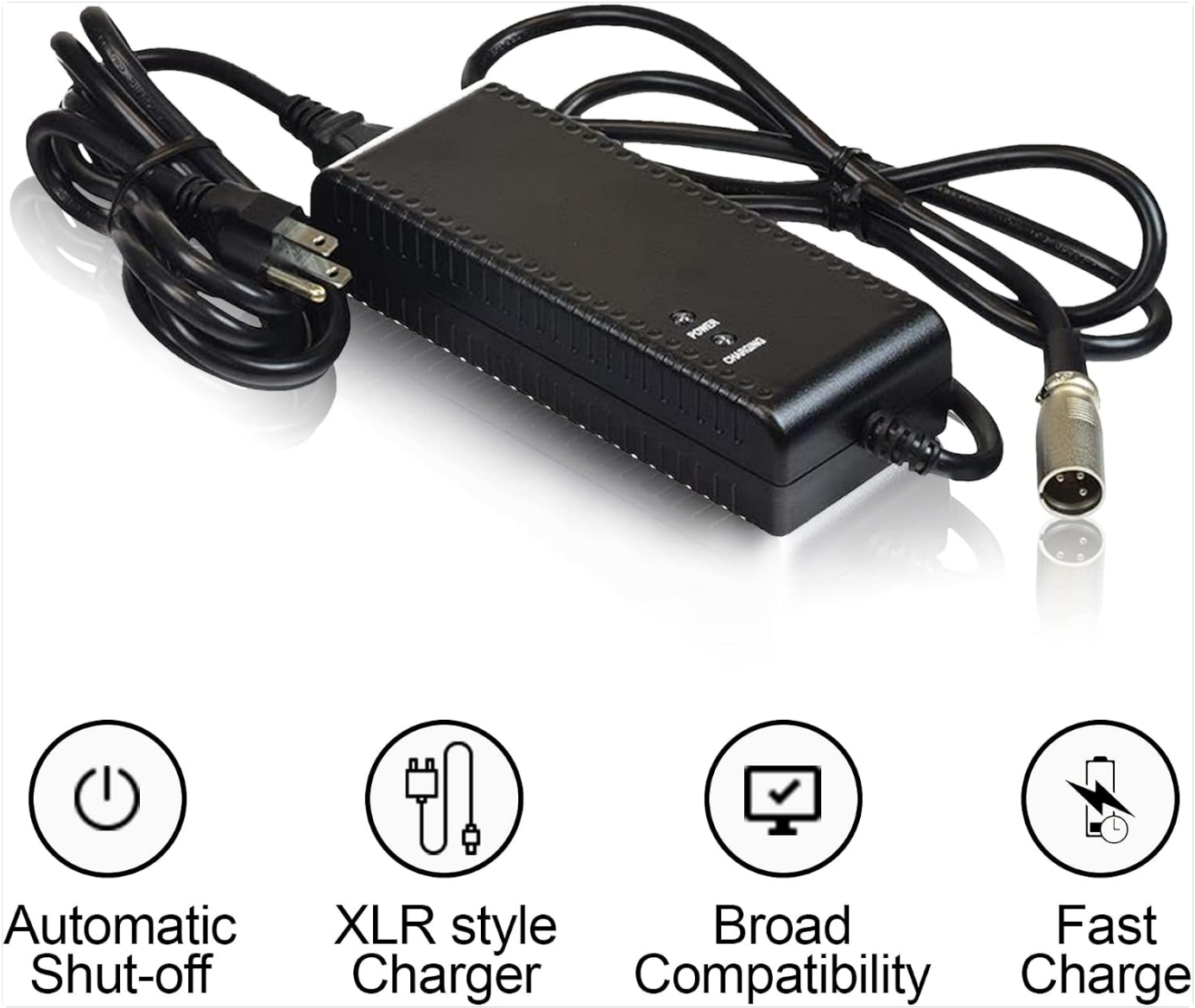


Image 8.1: Dimensional diagram of the charger, illustrating its physical measurements.

9. Warranty and Support

For warranty information or technical support, please contact the manufacturer, AlveyTech, or your retailer. Keep your purchase receipt as proof of purchase.

Manufacturer: AlveyTech

Return Policy: Typically 30 days for refund/replacement (check with retailer for specific terms).

Protection Plans: Extended protection plans may be available through your retailer. These plans are separate from the manufacturer's warranty.

For further assistance, you may visit the **AlveyTech Store on Amazon**.

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