

## ZLPOWER ZLPOWER

# ZLPOWER Electric Stair Climbing Hand Truck Dolly - User Manual

Model: ZLPOWER

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your ZLPOWER Electric Stair Climbing Hand Truck Dolly. Please read this manual thoroughly before using the product to ensure proper handling and to prevent injury or damage.

## 2. SAFETY INSTRUCTIONS

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Always prioritize safety when operating the electric stair climbing hand truck. Failure to follow these instructions may result in serious injury or property damage.

- **Read the Manual:** Understand all operating procedures and safety warnings before use.
- **Load Capacity:** Do not exceed the maximum load capacity of 661 pounds (300 kg). Overloading can cause instability and damage.
- **Secure Loads:** Always use the provided safety belts or straps to securely fasten items to the dolly before moving, especially on stairs.
- **Stable Surface:** Ensure the load is balanced and stable on the tray before moving.
- **Clear Path:** Keep the path clear of obstacles when moving the dolly, particularly on stairs.
- **Personal Protective Equipment:** Wear appropriate safety footwear and gloves when handling heavy loads.
- **Battery Safety:** Only use the charger provided. Do not expose the battery to extreme temperatures or moisture. Disconnect the battery when not in use or during maintenance.
- **Children and Pets:** Keep children and pets away from the operating area.
- **Maintenance:** Regularly inspect the tracks, wheels, and frame for wear or damage. Do not operate if any components are damaged.

## 3. PRODUCT COMPONENTS AND OVERVIEW

Familiarize yourself with the main parts of your ZLPOWER Electric Stair Climbing Hand Truck Dolly.



**Figure 3.1:** Overview of the ZLPOWER Electric Stair Climbing Hand Truck Dolly, showing key dimensions and features such as safety belts, thickened track, 500W powerful motor, 3-speed adjustment, control panel, and 40 steps per minute climbing speed.

- **Adjustable Handle:** For comfortable grip and height adjustment.
- **Control Panel:** Features power switch, speed adjustment, and battery indicator.
- **500W Motor:** Provides power for stair climbing.
- **Lithium Battery:** Removable 24V 36AH battery for power.
- **Solid Steel Load-bearing Tray:** Platform for carrying items.
- **Non-slip Rubber Track:** Provides grip and stability on stairs.
- **Dual Locking Wheels:** For stability on flat surfaces.
- **Safety Belts:** To secure loads during transport.

# Electric Stair Climber

The hand truck can hold more goods, with a maximum load of 661 lbs, it can carry heavy goods such as refrigerators, TVs, and air conditioners



Figure 3.2: Detailed view highlighting features such as the adjustable lever height, handle, non-slip rubber track, locking wheels, upgrade tray, and equipped seat belt.

## 4. SETUP AND ASSEMBLY

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The ZLPOWER Electric Stair Climbing Hand Truck Dolly typically arrives partially assembled. Follow these steps for final setup:

1. **Unpacking:** Carefully remove all components from the packaging. Retain packaging for future storage or transport.
2. **Handle Adjustment:** Adjust the height of the support rod/handle to a comfortable and secure position using the locking mechanisms.
3. **Battery Installation:** Ensure the 24V 36AH lithium battery is fully charged before first use. Insert the battery into its designated compartment and ensure it is securely connected.
4. **Pre-Operation Check:** Before first use, inspect all bolts, nuts, and connections to ensure they are tight. Check the rubber tracks and wheels for any damage.

## 5. OPERATING INSTRUCTIONS

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Operating the electric stair climbing hand truck requires attention to detail and adherence to safety guidelines.



Figure 5.1: Illustration of the easy-to-operate control panel with up/down buttons, battery indicator, and speed regulation.

### 5.1. Basic Operation

1. **Power On:** Locate the power switch on the control panel and turn the unit on. The LED battery indicator will show the current power status.
2. **Load Item:** Place the item securely on the load-bearing tray. Use the safety belts to strap the item firmly to the dolly.
3. **Adjust Speed:** Use the speed adjustment buttons on the control panel to select one of the 3 available speeds (up to 40 steps per minute). Start with a lower speed until you are comfortable with the operation.

### 5.2. Stair Climbing

1. **Positioning:** Tilt the dolly slightly back so the rubber tracks make contact with the edge of the first stair.
2. **Ascending:** Press and hold the "Up" button. The tracks will engage, and the dolly will begin to climb the stairs. Maintain a firm grip on the handles and guide the dolly.
3. **Descending:** Press and hold the "Down" button. The tracks will engage, and the dolly will slowly descend the stairs. Control the descent carefully.
4. **Stability:** The non-slip track design ensures stability on stairs. Always maintain control and be prepared to stop if necessary.

# Electric Stair Climbing Hand Trucks

Work efficiency increased 3 times  
One person can easily do the work of two person



**Figure 5.2:** The electric stair climbing hand truck ascending stairs with a secured load, demonstrating its capability to handle heavy items efficiently.

## 5.3. Flat Ground Movement

For moving on flat surfaces:

- **Engage Wheels:** Ensure the dolly is tilted back onto its main rubber wheels.
- **Maneuvering:** The flexible rubber wheels provide excellent maneuverability. Use the handles to push or pull the dolly.
- **Locking Wheels:** When stationary, engage the safety locks on the heavy-duty rear wheels to prevent unintended movement.

## 6. BATTERY CHARGING AND MAINTENANCE

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Proper battery care ensures longevity and reliable performance.



**Figure 6.1:** Close-up of the removable Lithium Battery and the powerful 500W motor, highlighting the battery's capacity to climb 80-120 floors or 2400 steps after approximately 4 hours of charging.

- **Charging:** The removable 24V 36AH lithium battery can be charged separately. Connect the charger to the battery and a standard power outlet. A full charge typically takes about 4 hours.
- **Endurance:** A fully charged battery provides enough power to climb approximately 2400 steps (80-120 floors).
- **Battery Indicator:** Monitor the LED battery indicator on the control panel to check the remaining power. Charge the battery when the indicator shows low power.
- **Storage:** If storing the dolly for an extended period, ensure the battery is partially charged (around 50%) and stored in a cool, dry place. Recharge every 3-6 months to prevent deep discharge.
- **Safety:** Do not use damaged batteries or chargers. Avoid short-circuiting the battery terminals.

## 7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your hand truck.

- **Cleaning:** Wipe down the frame and components with a damp cloth. Do not use harsh chemicals or immerse electrical parts in water.
- **Track Inspection:** Regularly check the rubber tracks for wear, tears, or debris. Clean any debris from the tracks and drive mechanism.
- **Wheel Inspection:** Inspect the wheels for damage and ensure they rotate freely. Check the locking mechanism for proper function.
- **Fastener Check:** Periodically check all nuts, bolts, and screws for tightness. Tighten as necessary.
- **Lubrication:** Apply a small amount of general-purpose lubricant to moving parts, such as axle points, if they become stiff.
- **Storage:** Store the hand truck in a dry, protected area when not in use.

## 8. TROUBLESHOOTING

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Refer to this section for common issues and their solutions.

| Problem                                    | Possible Cause                                       | Solution  |
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| Dolly does not power on.                   | Battery is not installed correctly or is discharged. | Ensure battery is fully inserted and charged. Check power switch.                                       |
| Dolly moves slowly or struggles on stairs. | Battery low, overloaded, or tracks are obstructed.   | Charge battery. Reduce load. Check tracks for debris.   |
| Unusual noise during operation.            | Loose components or debris in the mechanism.         | Stop operation immediately. Inspect for loose parts or obstructions. Contact support if noise persists. |
| Wheels do not lock properly.               | Locking mechanism is dirty or damaged.               | Clean the locking mechanism. If damaged, contact support for replacement parts.                         |

## 9. SPECIFICATIONS

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Key technical specifications for the ZLPOWER Electric Stair Climbing Hand Truck Dolly.

| Feature                    | Specification  |
|----------------------------|--|
| Brand                      | ZLPOWER  |
| Model Number               | ZLPOWER  |
| Material                   | Metal  |
| Color                      | Black  |
| Product Dimensions (LxWxH) | 25.59" x 22.05" x 44.09" (65cm x 56cm x 112-175cm adjustable height) |
| Wheel Type                 | Rubber   |
| Load Capacity              | 661 Pounds (300 kg)  |
| Motor Power                | 500W   |
| Battery                    | 24V 36AH Lithium Battery   |
| Charging Time              | Approx. 4 hours  |
| Stair Climbing Speed       | Up to 40 steps/minute (3 adjustable speeds)                          |
| Battery Endurance          | Approx. 2400 steps (80-120 floors) per full charge                   |
| Number of Wheels           | 6  |

## 10. WARRANTY AND SUPPORT

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For warranty information, technical support, or to order replacement parts, please contact ZLPOWER customer service directly. Refer to your purchase documentation for specific contact details or visit the official ZLPOWER website.

**Manufacturer:** ZLPOWER