isinwheel U5

isinwheel U5 Electric Bike User Manual

Model: U5

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1. Introduction

Welcome to the user manual for your new isinwheel U5 Electric Bike. This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your e-bike. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.

The isinwheel U5 is a versatile 20-inch folding electric bike designed for adults, offering a powerful 500W motor, a top speed of 20 MPH, and a long range of 45+ miles with its 48V 374.4Wh removable battery. Weighing only 48.5 lbs, it is ideal for leisure riding and commuting, combining portability with robust performance.



Figure 1.1: The isinwheel U5 Electric Bike, showcasing its compact design and included accessories like fenders and a rear rack.

2. Safety Information

Your safety is paramount. Adhere to all local traffic laws and regulations. Always wear a helmet and appropriate safety gear when riding. Perform pre-ride checks as outlined in this manual.

2.1 General Safety Guidelines

- Always wear a certified helmet and other protective gear (gloves, knee pads, elbow pads).
- Familiarize yourself with local e-bike regulations and traffic laws.
- Do not ride under the influence of alcohol or drugs.
- Ensure the battery is securely installed and locked before riding.
- Check tire pressure, brakes, and lights before each ride.
- Avoid riding in adverse weather conditions (heavy rain, snow, ice).
- Do not exceed the maximum weight capacity of the bike.
- Keep both hands on the handlebars while riding.

2.2 Battery Safety

- Use only the original charger provided with the bike.
- Do not expose the battery to extreme temperatures or direct sunlight.
- Do not puncture, drop, or disassemble the battery.

- Charge the battery in a well-ventilated area, away from flammable materials.
- If the battery shows signs of damage or overheating, discontinue use immediately and contact support.

2.3 UL 2849 Certification

The isinwheel U5 Electric Bike is UL 2849 certified, ensuring that the entire electrical system, including the battery, motor, and controller, meets stringent safety standards. This certification provides assurance of the product's electrical safety.

3. Components Overview

Familiarize yourself with the main components of your isinwheel U5 Electric Bike:

- **Frame:** Aluminum alloy folding frame.
- **Motor:** 500W Brushless Hub Motor, providing powerful and quiet assistance.
- **Battery:** 48V 7.8AH (374.4Wh) Removable Lithium Battery.
- **Display:** Smart LCD Dashboard for speed, mileage, battery level, and pedal assist level.
- **Brakes:** Dual Disc Brakes for reliable stopping power.
- **Tires:** 20" x 2.6" Fat Tires for stability and comfort on various terrains.
- **Lighting System:** Integrated LED Headlight and Rear Reflector for enhanced visibility.
- **Gears:** 5-Speed Transmission.
- **Suspension:** Rear Suspension for a smoother ride.
- **Included Components:** Bell.



Figure 3.1: Detail of the 500W brushless motor, highlighting its power and efficiency for smooth acceleration.

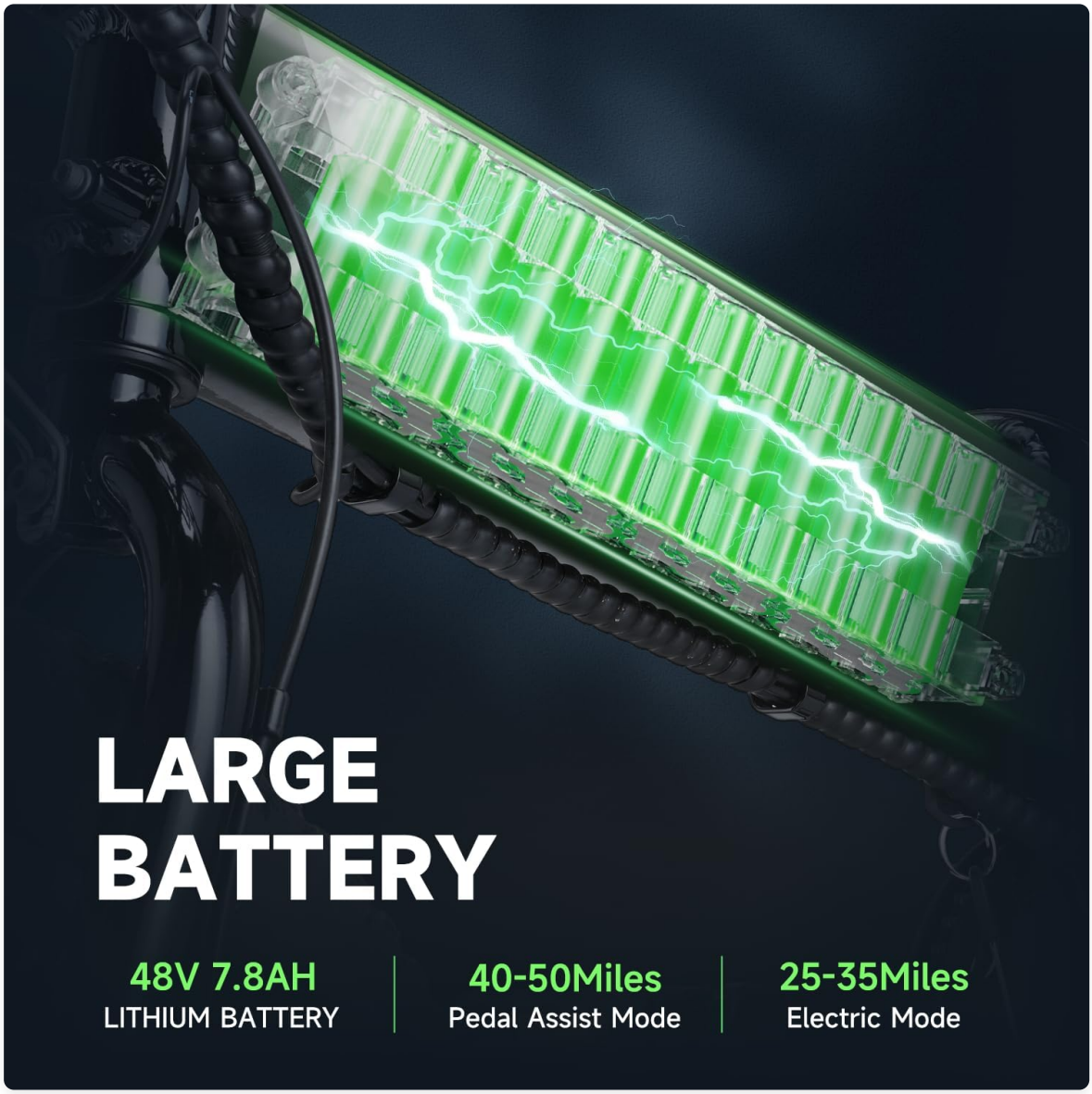


Figure 3.2: The large 48V 7.8AH removable battery, capable of providing up to 50 miles of range in pedal-assist mode.



Figure 3.3: The smart LCD dashboard and handlebar controls, including non-slip grips and an accelerator.

4. Setup and Initial Preparation

Your isinwheel U5 bike comes mostly pre-assembled. Follow these steps for final assembly and initial setup:

4.1 Unboxing and Inspection

1. Carefully remove the bike and all components from the packaging.
2. Inspect for any shipping damage. Contact customer support immediately if you find any.
3. Verify all parts are present according to the packing list.

4.2 Assembly Steps

1. **Unfold the Frame:** Release the frame latch and unfold the bike until the frame locks into place. Ensure the latch is securely fastened.
2. **Install Handlebars:** Insert the handlebar stem into the fork tube and tighten the quick-release lever or bolts. Adjust the handlebar height and angle for comfortable riding.
3. **Install Pedals:** Identify left (L) and right (R) pedals. Thread the left pedal counter-clockwise and the right pedal clockwise into the crank arms. Tighten firmly with a wrench.
4. **Install Front Wheel (if detached):** Align the front wheel with the fork dropouts and secure it with the quick-release skewer or axle nuts. Ensure the brake rotor is correctly seated in the caliper.
5. **Adjust Seat Post:** Insert the seat post into the frame and adjust the height so your feet can comfortably touch the ground when stopped. Secure with the quick-release lever.

6. **Install Fenders and Rear Rack (Optional):** Attach the included fenders and rear rack using the provided hardware.

4.3 Battery Installation and Initial Charge

1. **Insert Battery:** Slide the 48V 7.8AH battery into its compartment on the frame. Ensure it clicks securely into place. Use the provided key to lock the battery.
2. **Initial Charge:** Before first use, fully charge the battery. Connect the charger to the charging port on the bike or directly to the battery if removed. Plug the charger into a standard wall outlet. The charging indicator light will change when fully charged (typically 2-3 hours).



Figure 4.1: Illustration of the battery charging process, showing the charger connected to the bike.

5. Operating Your isinwheel U5 Electric Bike

5.1 Powering On/Off

- **To Power On:** Ensure the battery is installed and the key is turned to the "ON" position. Press and hold the 'M' button on the display for two seconds. The LCD screen will illuminate.
- **To Power Off:** Press and hold the 'M' button on the display again for two seconds. The display will turn off.

5.2 Riding Modes

Your U5 e-bike offers three riding modes:

1. **Pedal Assist Mode (PAS):** Provides electric assistance as you pedal. Use the '+' and '-' buttons on the display to

adjust the assist level (1-5). Higher levels provide more assistance. This mode offers a range of 40-50 miles.

2. **Pure Electric Mode (Throttle):** Use the thumb throttle to engage the motor without pedaling. This mode is ideal for quick bursts of speed or when you need a break from pedaling. This mode offers a range of 25-35 miles.
3. **Normal Bike Mode:** Ride the bike like a traditional bicycle with no electric assistance. The motor will not engage.

5.3 LCD Display Usage

The smart LCD display provides real-time riding data:

- **Speed:** Current riding speed.
- **Battery Level:** Indicates remaining battery charge.
- **PAS Level:** Shows the current pedal assist level (1-5).
- **Mileage:** Displays trip distance or total odometer reading.
- **Error Codes:** In case of a system malfunction, an error code may appear. Refer to the Troubleshooting section.

5.4 Braking

The U5 is equipped with dual disc brakes. Apply both brake levers simultaneously for effective and safe stopping. Avoid sudden, hard braking, especially at high speeds or on slippery surfaces.

5.5 Folding and Portability

To fold your isinwheel U5 for transport or storage:

1. Ensure the bike is powered off.
2. Lower the seat post to its lowest position.
3. Fold the handlebars down by releasing the stem latch.
4. Release the main frame latch and fold the bike in half. Secure the folded frame with the safety clasp.
5. The folded size is approximately 37.4 x 17.7 x 27.5 inches, making it suitable for car trunks or public transport.



Figure 5.1: A person placing the folded isinwheel U5 electric bike into a car trunk, demonstrating its portability.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your e-bike.

6.1 Cleaning

- Wipe the frame with a damp cloth. Avoid using high-pressure washers directly on electrical components.
- Clean the chain regularly and lubricate it with bicycle chain lubricant.

6.2 Tire Care

- Check tire pressure before each ride. Maintain pressure within the recommended range (usually printed on the tire sidewall).
- Inspect tires for wear, cuts, or embedded objects.

6.3 Brake System

- Regularly check brake pads for wear and replace them when necessary.
- Ensure brake levers are firm and responsive. Adjust cable tension if needed.

6.4 Battery Storage

- If storing the bike for an extended period, charge the battery to 50-70% and store it in a cool, dry place.

- Recharge the battery every 1-2 months to prevent deep discharge.

6.5 General Checks

- Periodically check all bolts and fasteners for tightness.
- Ensure all electrical connections are secure and free from corrosion.

7. Troubleshooting

This section addresses common issues you might encounter with your isinwheel U5 Electric Bike.

Problem	Possible Cause	Solution
Bike does not power on	Battery not installed correctly; Battery not charged; Key not in "ON" position; Loose electrical connection.	Ensure battery is fully inserted and locked. Charge the battery. Turn the key to "ON". Check all visible cable connections.
Motor not assisting	PAS level set to 0; Battery low; Brake levers engaged; Motor connection loose.	Increase PAS level using '+' button. Charge battery. Ensure brake levers are fully released. Check motor cable connection.
Short battery range	Low tire pressure; Riding uphill frequently; High PAS level/throttle use; Old battery.	Inflate tires to recommended pressure. Use lower PAS levels or pedal more. Consider battery replacement if very old.
Brakes feel weak	Worn brake pads; Loose brake cable; Contaminated rotors.	Inspect and replace brake pads. Adjust brake cable tension. Clean rotors with disc brake cleaner.
Display shows error code	Specific system malfunction.	Note the error code and refer to the detailed error code list in the full manual (if available) or contact customer support with the code.

If you encounter an issue not listed here or cannot resolve a problem, please contact isinwheel customer support.

8. Specifications

Feature	Detail
Model Name	U5
Bike Type	Electric Bike, Folding Bike, Commuting Bike, Cruiser Bike
Motor	500W Brushless Hub Motor
Max Speed	20 MPH (32 km/h)
Battery	48V 7.8AH (374.4Wh) Removable Lithium Battery
Charging Time	2-3 Hours
Range (Pure Electric)	25-35 Miles (40-56 km)
Range (Pedal Assist)	40-50 Miles (64-80 km)
Wheel Size	20 Inches
Tire Size	20" x 2.6"
Frame Material	Aluminum
Suspension Type	Rear

Feature	Detail
Brake Style	Disc (Dual)
Number of Speeds	5
Item Weight	48.5 Pounds (22 kg)
Folded Size	37.4 x 17.7 x 27.5 inches (95 x 45 x 70 cm)
Certification	UL 2849

9. Warranty and Support

9.1 Warranty Information

isinwheel provides a one-year limited warranty for the U5 Electric Bike. This warranty covers manufacturing defects in materials and workmanship. It does not cover damage due to misuse, accidents, normal wear and tear, or unauthorized modifications.

For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official isinwheel website.

9.2 Customer Support

If you have any questions, require technical assistance, or need to make a warranty claim, please contact isinwheel customer support. We offer lifetime technical support and aim to provide a professional and rapid reply within 24 hours.

Contact Information:

Website: Visit the isinwheel Store on Amazon

Email: (Refer to product packaging or official website for specific email address)

Phone: (Refer to product packaging or official website for specific phone number)

Please have your model number (U5) and purchase date ready when contacting support.

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