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## CBVELO EK4-heiul

# CBVELO EK4-heiul 1000W Folding Electric Bike User Manual

Model: EK4-heiul

## 1. Introduction

Thank you for choosing the CBVELO EK4-heiul 1000W Folding Electric Bike. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your electric bicycle. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.




Figure 1: CBVELO EK4-heiul 1000W Folding Electric Bike.

## 2. Safety Information

Your safety is paramount. Always adhere to local traffic laws and regulations. Failure to follow these guidelines may result in serious injury or property damage.

### 2.1 General Riding Safety

- Always wear a certified helmet and appropriate safety gear.
- Perform a pre-ride inspection before each use, checking brakes, tires, battery, and all fasteners.
- Be aware of your surroundings and ride defensively.
- Avoid riding in adverse weather conditions or at night without proper lighting.

### 2.2 Battery Safety

- Use only the charger provided with your e-bike.
- Do not expose the battery to extreme temperatures or direct sunlight.
- Never puncture, open, or disassemble the battery pack.
- Charge the battery in a well-ventilated area, away from flammable materials.

### 2.3 Folding Mechanism Safety

- Ensure all folding latches and quick releases are securely fastened before riding.
- Do not attempt to fold or unfold the bike while it is in motion.

## 3. What's in the Box

Upon unpacking, verify that all components are present:

- CBVELO EK4-heiul Folding Electric Bike (partially assembled)
- Removable 48V 20Ah Lithium-ion Battery
- Battery Charger
- Tool Kit
- User Manual (this document)

## 4. Setup and Assembly

Your CBVELO EK4-heiul electric bike comes mostly assembled. Follow these steps to complete the setup:

### 4.1 Unfolding the Bike

1. Carefully remove the bike from its packaging.
2. Unfold the frame by releasing the main frame latch. Ensure it clicks securely into place.
3. Raise the handlebar stem and secure the quick-release lever.
4. Adjust the handlebar height to your preference and tighten the quick-release.
5. Adjust the seat post height and secure the quick-release lever.

Video 1: Demonstration of unfolding and basic adjustments for the electric bicycle.

### 4.2 Installing Pedals

- Identify the left (L) and right (R) pedals.
- Thread the right pedal (R) clockwise into the right crank arm.
- Thread the left pedal (L) counter-clockwise into the left crank arm.
- Tighten both pedals firmly with a wrench from the provided tool kit.

### 4.3 Battery Installation and Charging

- Insert the removable battery into its compartment on the frame.
- Lock the battery with the provided key to secure it.
- Before your first ride, fully charge the battery using the supplied charger. The charging time is approximately 5-7 hours.

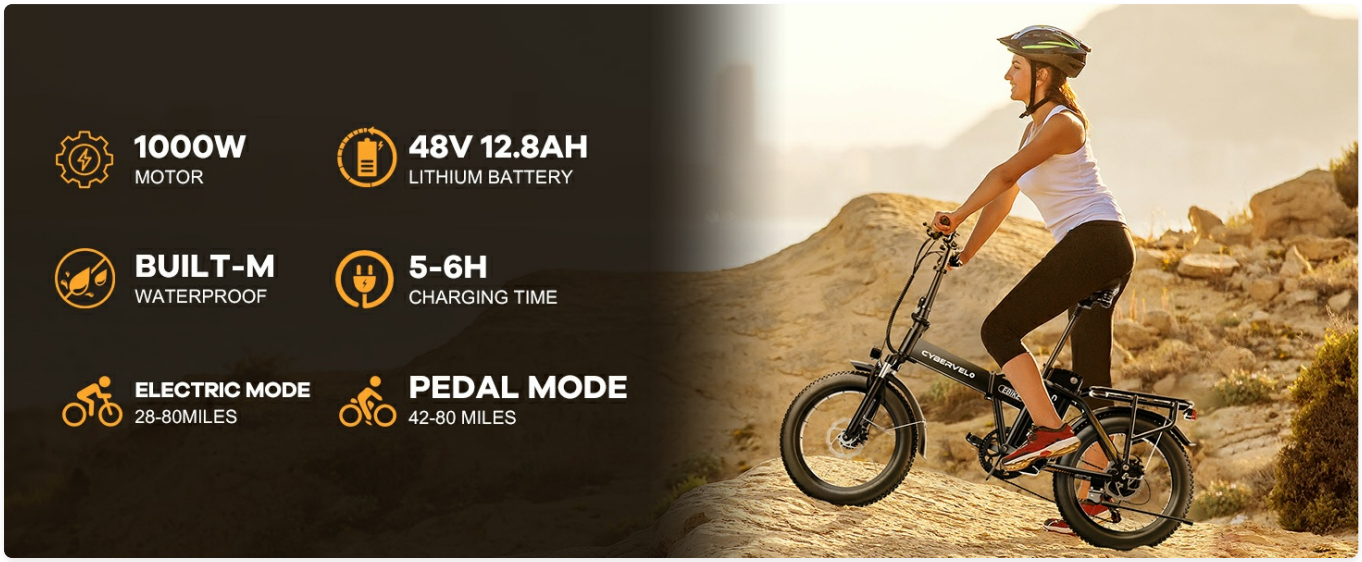



Figure 2: The removable 48V 20Ah Lithium-ion battery can be charged on or off the bike.

## 5. Operating Instructions

### 5.1 Powering On/Off

- To power on the bike, press and hold the power button on the LCD display.
- To power off, press and hold the power button again.

### 5.2 LCD Display

The color LCD display provides real-time information:

- **Speed Display:** Current riding speed.
- **Battery Display:** Remaining battery level.
- **Travel Distance Display:** Trip distance and total odometer.
- **Pedal-Assist Mode (PAS) Display:** Current assist level (1-5).




Figure 3: Intelligent LCD Display for monitoring ride data and settings.

## 5.3 Riding Modes and Pedal Assist

The bike offers three riding modes and five pedal assist levels:

- **Pedal Assist Mode:** Provides motor assistance while pedaling. Adjust levels 1-5 using the '+' and '-' buttons on the display.
- **Classic Bike Mode:** Ride without any motor assistance, like a traditional bicycle.
- **Pure Electric Mode:** Use the throttle for motor power without pedaling.

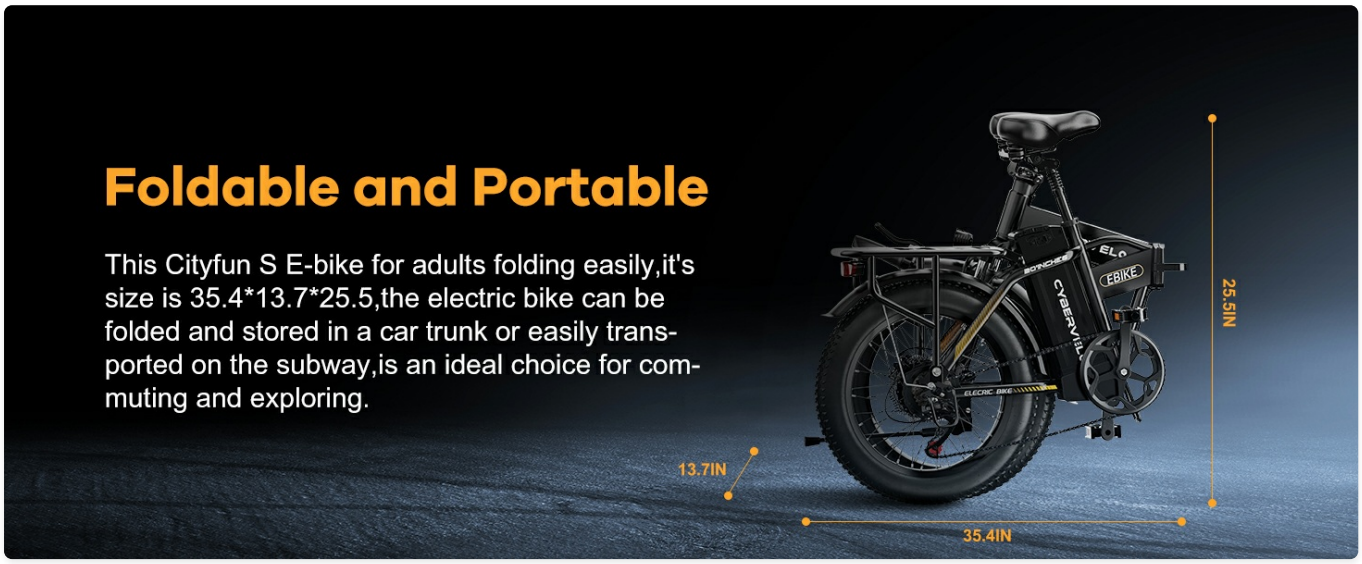



Figure 4: Three riding modes and five pedal assist levels for versatile riding.

## 5.4 Gear Shifting

The bike is equipped with a 7-speed transmission. Use the twist grip shifter on the handlebar to change gears according to terrain and desired effort.




Figure 5: The 7-speed gear system allows for efficient pedaling on various terrains.

## 5.5 Braking

The hydraulic dual disc brakes provide reliable stopping power. Apply both brake levers gently and evenly to slow down or stop. Avoid sudden, hard braking, especially at high speeds or on loose surfaces.




Figure 6: Hydraulic disc brakes ensure powerful and precise stopping.

## 5.6 Folding for Storage and Transport

The bike's foldable design allows for compact storage and easy transport.

1. Ensure the bike is powered off.
2. Lower the seat post to its lowest position.
3. Release the main frame latch and fold the frame in half.
4. Fold down the handlebar stem.
5. Secure any loose components.

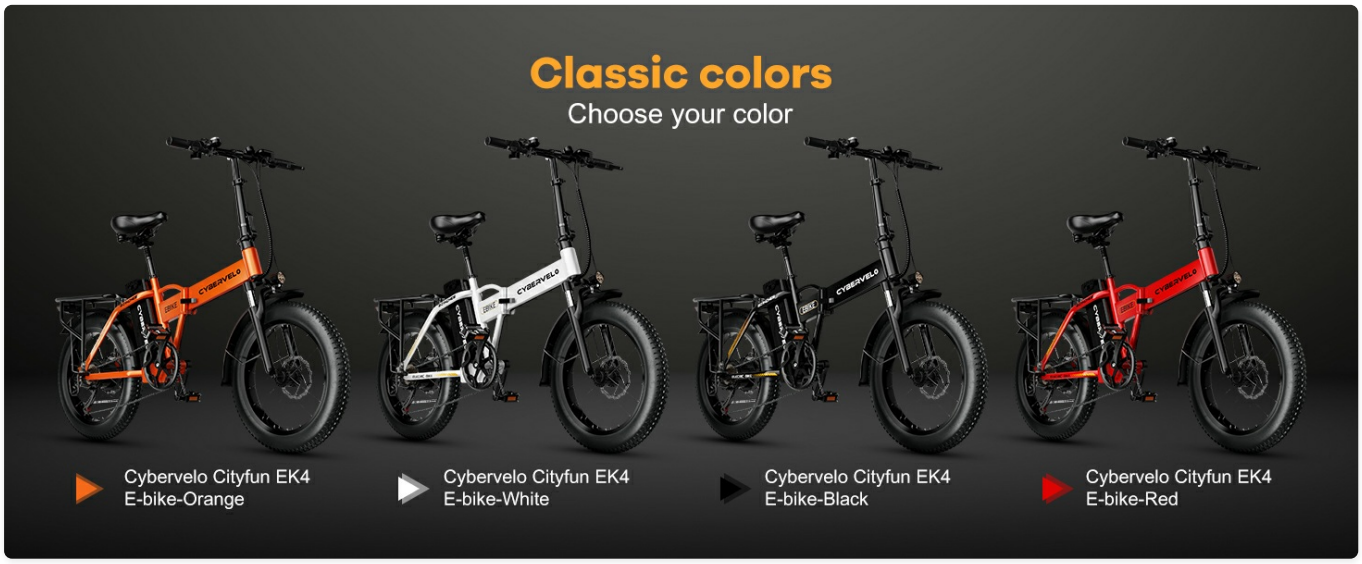



Figure 7: The bike folds compactly for easy storage in a car trunk or public transport.

## 6. Key Features

- **Powerful 1000W Peak Motor:** Delivers up to 65Nm of torque for speeds up to 30 MPH, suitable for city commuting and off-road paths.

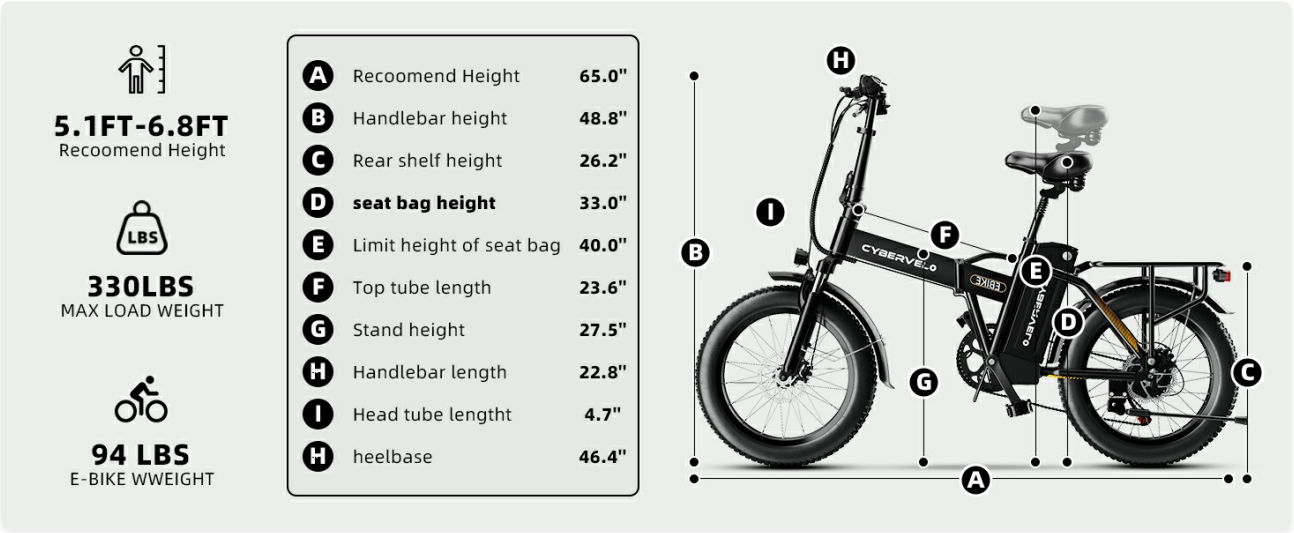



Figure 8: The 1000W peak brushless motor provides strong acceleration and hill-climbing capability.

- **Long-Lasting 48V 20Ah Removable Battery:** Offers a range of up to 80 miles on a single charge, with a detachable design for convenient indoor charging.
- **Front Suspension:** Absorbs shocks from uneven terrain for a smoother and safer ride.

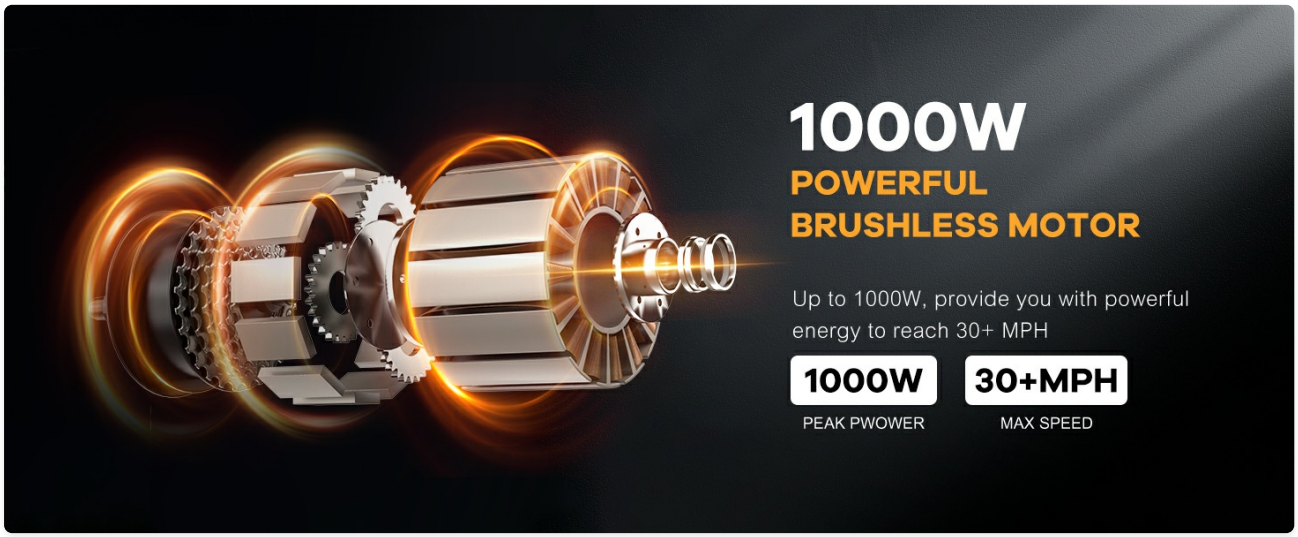



Figure 9: Front suspension enhances comfort and control on rough surfaces.

- **20" Fat Tires:** Durable 20" x 3.0 fat tires provide superior grip and stability on various surfaces, including city streets, gravel, and dirt.
- **Integrated Lighting:** Equipped with a bright headlight and taillight for enhanced visibility and safety during night riding.




Figure 10: Integrated headlight and taillight for improved safety in low-light conditions.

Video 2: Overview of the CBVELO electric bike's features and performance for commuting.

Video 3: Showcase of the folding electric bike for adults, highlighting its versatility.

## 7. Maintenance

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

### 7.1 Cleaning

- Wipe the bike with a damp cloth after each ride. Avoid high-pressure washing.
- Keep electrical components dry.

### 7.2 Tire Care

- Check tire pressure before each ride. Refer to the tire sidewall for recommended PSI.
- Inspect tires for wear, cuts, or punctures regularly.

### 7.3 Brake System

- Regularly check brake pads for wear and replace as needed.
- Ensure brake levers are firm and responsive. If they feel spongy, the hydraulic system may need bleeding by a qualified technician.

### 7.4 Chain and Drivetrain

- Keep the chain clean and lubricated to prevent rust and ensure smooth shifting.
- Inspect gears and derailleur for damage or misalignment.

### 7.5 Battery Care

- Charge the battery regularly, even if not in use, to maintain its health.
- Store the battery in a cool, dry place, ideally between 50-70% charge if storing for extended periods.

## 8. Troubleshooting

This section addresses common issues you might encounter.

| Problem | Possible Cause | Solution |
|---|---|---|
| Bike does not power on | Battery not charged or installed correctly; Loose electrical connection | Charge battery fully; Ensure battery is securely installed and locked; Check all visible cable connections. |
| Motor not assisting | PAS level set to 0; Throttle not engaged; Brake lever engaged; Motor or sensor issue | Increase PAS level; Ensure throttle is fully engaged; Release brake levers; Consult support if issue persists. |
| Brakes feel weak or spongy | Worn brake pads; Air in hydraulic lines; Low brake fluid | Inspect and replace brake pads; Have hydraulic system bled by a professional; Check fluid levels. |
| Gears are not shifting smoothly | Dirty or unlubricated chain; Derailleur misalignment; Damaged shifter cable | Clean and lubricate chain; Adjust derailleur; Inspect shifter cable for damage. |

## 9. Specifications

Detailed technical specifications for the CBVELO EK4-heiul Folding Electric Bike:

| Feature | Specification |
|---|---|
| Bike Type | Electric Bike, Fat Tire |
| Age Range | Adult |
| Brand | CBVELO |
| Motor | 1000W Peak Hub Motor |

| Feature | Specification |
|---|---|
| Battery | 48V 20Ah Removable Lithium-ion |
| Max Speed | Up to 30 MPH |
| Max Range | Up to 80 Miles (Pedal Assist) |
| Charging Time | 5-7 Hours |
| Wheel Size | 20 Inches |
| Tire Width | 3 Inches |
| Frame Material | Carbon Steel |
| Suspension Type | Front |
| Brake Style | Hydraulic Dual Disc |
| Number of Speeds | 7 |
| Max Load Weight | 300 Pounds |
| E-Bike Weight | 70 pounds (including battery) |
| Model Number | EK4-heiul |
| UPC | 767176813024 |




Figure 11: Key dimensions and recommended rider height for the CBVELO EK4-heiul.

## 10. Warranty and Support

CBVELO provides a limited warranty for the EK4-heiul electric bike. The frame is covered by a lifetime limited warranty. For specific warranty details, claims, or technical support, please contact CBVELO customer service through the retailer where the product was purchased or visit the official CBVELO website.

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