CBVELO EK4-Y-Black

CBVELO EK4-Y-Black 1000W Folding Electric Bike User Manual

Model: EK4-Y-Black

1. Introduction

This manual provides essential information for the safe operation, assembly, and maintenance of your CBVELO EK4-Y-Black 1000W Folding Electric Bike. Please read this manual thoroughly before your first ride to ensure proper use and to maximize your riding experience. Retain this manual for future reference.

The CBVELO EK4-Y-Black is designed for adult riders, featuring a powerful 1000W motor, a 48V 20Ah removable battery, 20-inch fat tires, and a foldable frame for convenience. It offers multiple riding modes and a 7-speed transmission for versatile use across various terrains.



Image 1.1: The CBVELO EK4-Y-Black 1000W Folding Electric Bike. This image displays the electric bike in its unfolded state, highlighting its robust frame, fat tires, and integrated rear rack.

2. Safety Guidelines

Your safety is paramount. Adhere to all local traffic laws and regulations. Always wear a helmet and appropriate safety gear when riding. Regular inspections and maintenance are crucial for safe operation.

2.1 General Safety

- Always wear a certified helmet and other protective gear (gloves, knee pads, elbow pads).
- Perform a pre-ride inspection before each use, checking brakes, tires, battery, and frame.
- Do not ride under the influence of alcohol or drugs.
- Ensure all fasteners are securely tightened before riding.
- This electric bike is designed for adult use only.

2.2 Riding Safety

- Maintain a safe speed and distance from other vehicles and pedestrians.
- Be aware of your surroundings and potential hazards.
- Use hand signals for turns and stops.
- Avoid riding in adverse weather conditions (heavy rain, snow, ice).
- Do not exceed the maximum load capacity of 330 lbs (150 kg).

2.3 Battery Safety

- Use only the charger provided by CBVELO.
- 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 is damaged or emits an unusual odor, discontinue use immediately and contact support.

3. Product Overview

The CBVELO EK4-Y-Black electric bike combines power, range, and convenience for various riding needs.

3.1 Key Components

- **Frame:** Foldable Carbon Steel frame.
- **Motor:** 1000W Peak Brushless Motor, providing up to 65Nm of torque.
- **Battery:** 48V 20Ah Removable Lithium-ion Battery.
- **Tires:** 20-inch x 3.0 Fat Tires for all-terrain stability.
- **Brakes:** Front and Rear Hydraulic Disc Brakes.
- **Suspension:** Front Suspension Fork.
- **Gears:** 7-speed transmission.
- **Display:** Color LCD Display.
- **Lighting:** Integrated Headlight and Taillight.

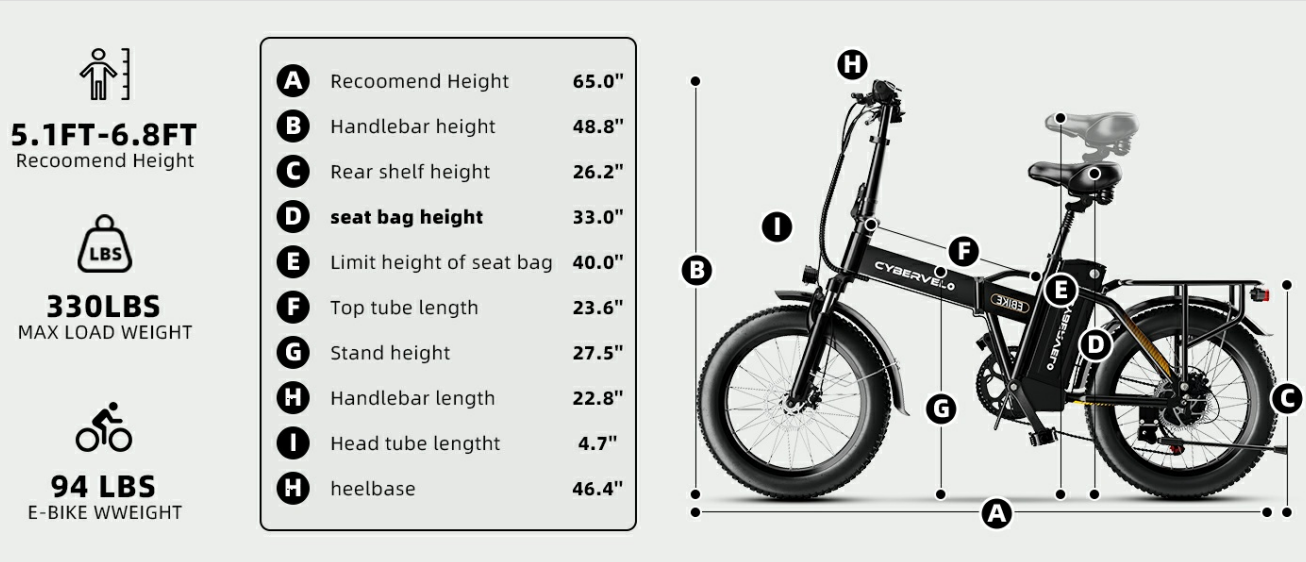


Image 3.1: Diagram of the 1000W Brushless Motor. This image illustrates the internal components of the powerful 1000W brushless motor, highlighting its design for high performance and speed.

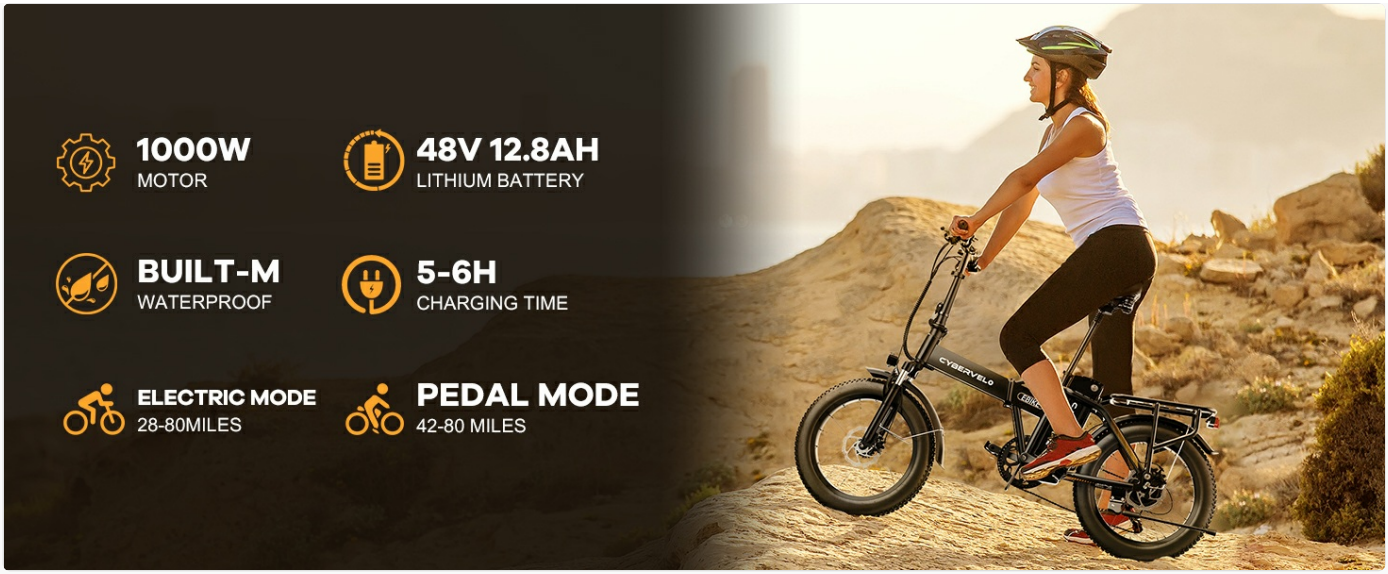


Image 3.2: The 48V 20Ah High Capacity Battery. This image shows the removable lithium-ion battery pack, emphasizing its capacity and integration into the bike frame.



Image 3.3: 20-inch Fat Tires and Front Suspension. This image highlights the robust 20-inch fat tires and the front suspension system, designed for stability and shock absorption across various terrains.

4. Setup and Assembly

Your CBVELO EK4-Y-Black electric bike comes partially assembled. Follow these steps for final assembly.

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 damage is found.
3. Verify all parts listed in the packing list are present.

4.2 Handlebar Installation

1. Unfold the handlebar stem and secure it with the quick-release lever.
2. Adjust the handlebar height to a comfortable position and tighten the clamp.
3. Ensure the display and controls are correctly oriented and secured.

4.3 Pedal Installation

1. Identify the left (L) and right (R) pedals.
2. Thread the 'L' pedal counter-clockwise into the left crank arm.
3. Thread the 'R' pedal clockwise into the right crank arm.
4. Tighten both pedals securely with a wrench.

4.4 Seat Post Installation

1. Insert the seat post into the frame's seat tube.
2. Adjust the seat height to a comfortable riding position.
3. Secure the seat post with the quick-release clamp. Ensure the minimum insertion mark is not visible.

4.5 Initial Battery Charge

1. Before first use, fully charge the battery. Refer to Section 5.2 for charging instructions.

5. Operating Instructions

Understand how to operate your electric bike's various functions.

5.1 Powering On/Off

- To power on: Press and hold the power button on the LCD display for a few seconds.
- To power off: Press and hold the power button again until the display turns off.

5.2 Battery Charging and Removal

The 48V 20Ah battery is removable for convenient charging.

1. **Charging:** Connect the charger to the battery charging port (either on the bike or after removal). Plug the charger into a standard wall outlet. The indicator light on the charger will show charging status (typically red for charging, green for fully charged). A full charge takes approximately 5-7 hours.

2. **Removal:** Unlock the battery with the provided key. Slide the battery out of its compartment.
3. **Installation:** Slide the battery back into the compartment until it clicks into place. Lock it with the key.



Image 5.1: Battery Charging Illustration. This image shows the battery being charged, emphasizing the ease of removal and charging indoors.

5.3 Riding Modes

Your electric bike offers three riding modes:

- **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. You can adjust the level of assistance (typically 1-5 levels) via the LCD display controls.
- **Pure Electric Mode:** Use the throttle to propel the bike without pedaling. This mode is ideal for quick acceleration or when you need a break from pedaling.
- **Classic Bike Mode:** The motor is off, and you ride the bike like a traditional bicycle, using pedal power only.



Image 5.2: Illustration of the Three Riding Modes. This image visually represents the Pedal Assist, Pure Electric, and Classic Bike modes available on the electric bike.

5.4 Gear Shifting

The bike is equipped with a 7-speed transmission. Use the gear shifter on the handlebar to change gears according to terrain and desired pedaling effort. Lower gears are for climbing hills, higher gears for flat terrain and speed.



Image 5.3: The 7-Speed Derailleur System. This image provides a close-up view of the rear derailleur and cassette, illustrating the bike's 7-speed gearing for varied terrain.

5.5 LCD Display Functions

The color LCD display provides real-time information about your ride.



Image 5.4: The Electric Bike's Color LCD Display. This image shows the digital display mounted on the handlebar, indicating speed, battery level, and other ride parameters.

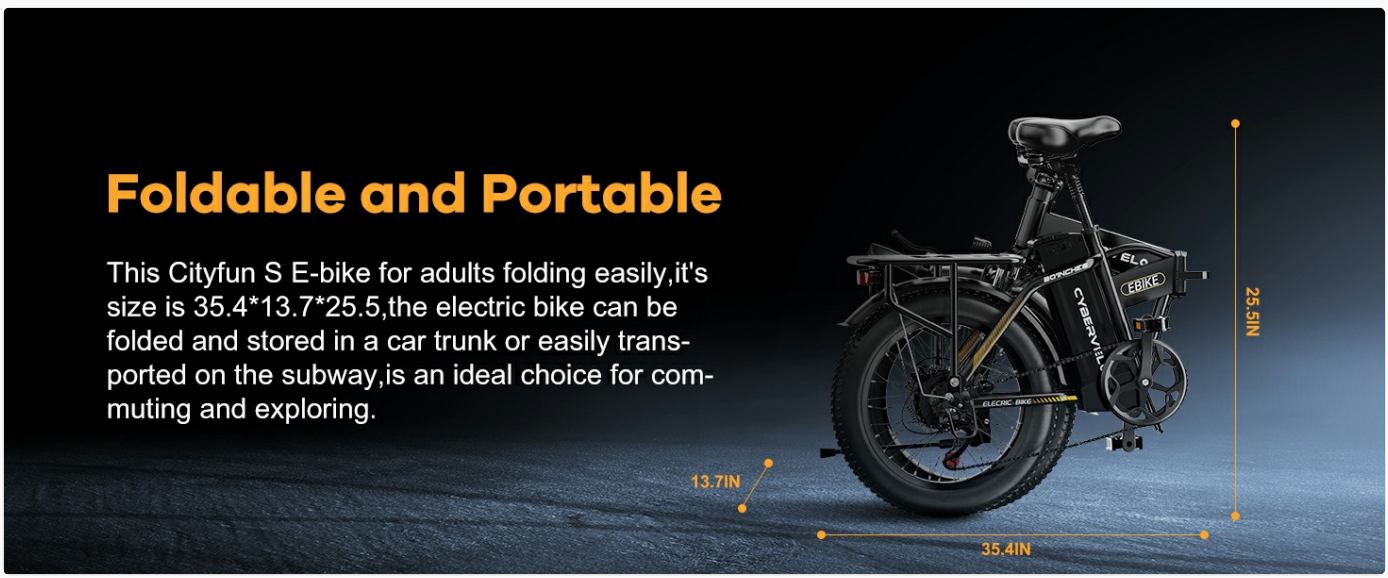


Image 5.5: LCD Display Controls and Information. This image details the various buttons and readouts on the intelligent LCD display, including power switch, PAS up/downshift, gear shift, brake handle, horn, throttle, speed display, battery display, power assist gear display, and travel distance display.

The display typically shows:

- Current Speed (MPH/KMH)
- Battery Level Indicator
- Pedal Assist Level (PAS 1-5)
- Odometer / Trip Distance
- Headlight Indicator
- Error Codes (if any)

Use the '+' and '-' buttons to adjust PAS levels. The 'M' button typically cycles through display modes (e.g., Odometer, Trip Distance).

5.6 Folding and Unfolding

The foldable design allows for easy storage and transport.



Image 5.6: Foldable Electric Bike. This image demonstrates the bike in its folded state, highlighting its compact dimensions for storage and transport.

1. **Folding:** Open the frame's quick-release lever, fold the frame in half. Lower the seat post and fold the handlebars down. Secure all folded parts with any integrated latches.
2. **Unfolding:** Reverse the folding process. Ensure all quick-release levers and latches are securely fastened before riding.

6. Maintenance

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

6.1 General Care

- Keep the bike clean. Wipe down the frame with a damp cloth. Avoid high-pressure washing directly on electrical components.
- Lubricate the chain regularly with bicycle-specific chain lubricant.

- Store the bike in a dry, cool place, away from direct sunlight and extreme temperatures.

6.2 Battery Maintenance

- Charge the battery fully after each ride, especially if it has been heavily discharged.
- If storing the bike for an extended period, charge the battery to 50-70% and recharge every 1-2 months.
- Do not allow the battery to fully discharge for prolonged periods.

6.3 Tire Pressure

- Check tire pressure before each ride. Maintain pressure within the range specified on the tire sidewall.
- Proper tire pressure improves ride quality, efficiency, and reduces the risk of punctures.

6.4 Brake Inspection

- Regularly inspect brake pads for wear. Replace them when worn.
- Check brake levers for proper tension and responsiveness. Adjust if necessary.
- Ensure hydraulic disc brakes are functioning smoothly and quietly. If squeaking or reduced performance occurs, consult a bike mechanic.



Image 6.1: Front and Rear Disc Brakes. This image provides a detailed view of the disc brake system, emphasizing its role in providing powerful and precise stopping power.

7. Troubleshooting

This section addresses common issues you might encounter with your electric bike.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not properly installed; loose electrical connection.	Ensure battery is fully charged and securely locked in place. Check all visible cable connections.
Motor not assisting	PAS level set to 0; brake levers engaged; motor cable disconnected.	Increase PAS level on the display. Release brake levers. Check motor cable connection.
Short battery range	Low tire pressure; frequent use of high PAS/throttle; riding uphill; cold weather.	Ensure tires are properly inflated. Use lower PAS levels or pedal more. Charge battery fully before each ride.

Problem	Possible Cause	Solution
Brakes squeak or feel weak	Brake pads worn or contaminated; disc rotor dirty; air in hydraulic system.	Clean rotors and pads. Replace worn pads. If hydraulic issue, consult a professional.
Gears not shifting smoothly	Derailleur out of adjustment; bent hanger; dirty chain.	Clean and lubricate chain. Adjust derailleur. If issue persists, seek professional service.

For issues not listed here or if solutions do not resolve the problem, please contact CBVELO customer support.

8. Specifications

Detailed technical specifications for the CBVELO EK4-Y-Black 1000W Folding Electric Bike.



Image 8.1: Electric Bike Dimensions and Weight. This image provides a diagram with key measurements and weight specifications for the electric bike, including recommended height and max load capacity.

Feature	Specification
Model Name	EK4-Y-Black (EK4-hei-yydscbv)
Bike Type	Electric Bike, Foldable
Motor	1000W Peak Brushless Motor
Top Speed	Up to 30 MPH
Battery	48V 20Ah Removable Lithium-ion
Max Range	Up to 80 miles (Pedal Assist Mode)
Charging Time	5-7 Hours
Wheel Size	20 Inches (20" x 3.0 Fat Tires)
Frame Material	Carbon Steel

Feature	Specification
Suspension	Front Suspension
Brake Style	Hydraulic Disc Brakes (Front & Rear)
Number of Speeds	7-speed (Rear Derailleur)
Max Load Weight	330 lbs (150 kg)
Item Dimensions (LxWxH)	69 x 28 x 46 inches (Unfolded)
UPC	723907752109

9. Warranty and Support

CBVELO provides a limited warranty for its electric bikes. Please refer to the warranty card included with your purchase or visit the official CBVELO website for detailed warranty terms and conditions.
For technical assistance, troubleshooting, or warranty claims, please contact CBVELO customer support through the following channels:

- **Website:** CBVELO Official Store on Amazon
- **Email:** Refer to your purchase documentation for specific contact information.
- **Phone:** Refer to your purchase documentation for specific contact information.

When contacting support, please have your model name (EK4-Y-Black) and purchase date ready.

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