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Fafrees FF20 Polar

Fafrees FF20 Polar E-Bike

INSTRUCTION MANUAL

Product Overview

The Fafrees FF20 Polar is a versatile folding electric bicycle designed for various riding environments. It features a robust dual battery system for extended range, a powerful hub motor for efficient climbing, and a high-resolution LCD display for comprehensive ride data. Its design prioritizes both performance and rider comfort, making it suitable for daily commutes and adventurous rides.



Image: The Fafrees FF20 Polar E-Bike, showcasing its compact design and included helmet.

Setup and Assembly

Your Fafrees FF20 Polar E-Bike comes partially assembled. Follow these steps for initial setup:

1. **Unfolding the Bike:** Carefully unfold the frame and secure all quick-release levers. Ensure the handlebar stem and seat post are properly locked into position.
2. **Handlebar Adjustment:** Adjust the handlebar height and angle for a comfortable riding position. Tighten all bolts securely.
3. **Seat Post Adjustment:** Adjust the seat height to allow for a slight bend in your knee when the pedal is at its lowest point. Secure the quick-release lever.
4. **Battery Installation & Charging:** The FF20 Polar features two batteries. Ensure both are securely installed. Fully charge both batteries before your first ride. Connect the charger to the charging port and a power outlet. The indicator light on the charger will change when charging is complete.
5. **Tire Inflation:** Inflate the CHAOYANG 20x4.0 fat tires to the recommended pressure, typically found on the tire sidewall.

6. **Brake Check:** Test both front and rear brakes to ensure they are functioning correctly and provide adequate stopping power.

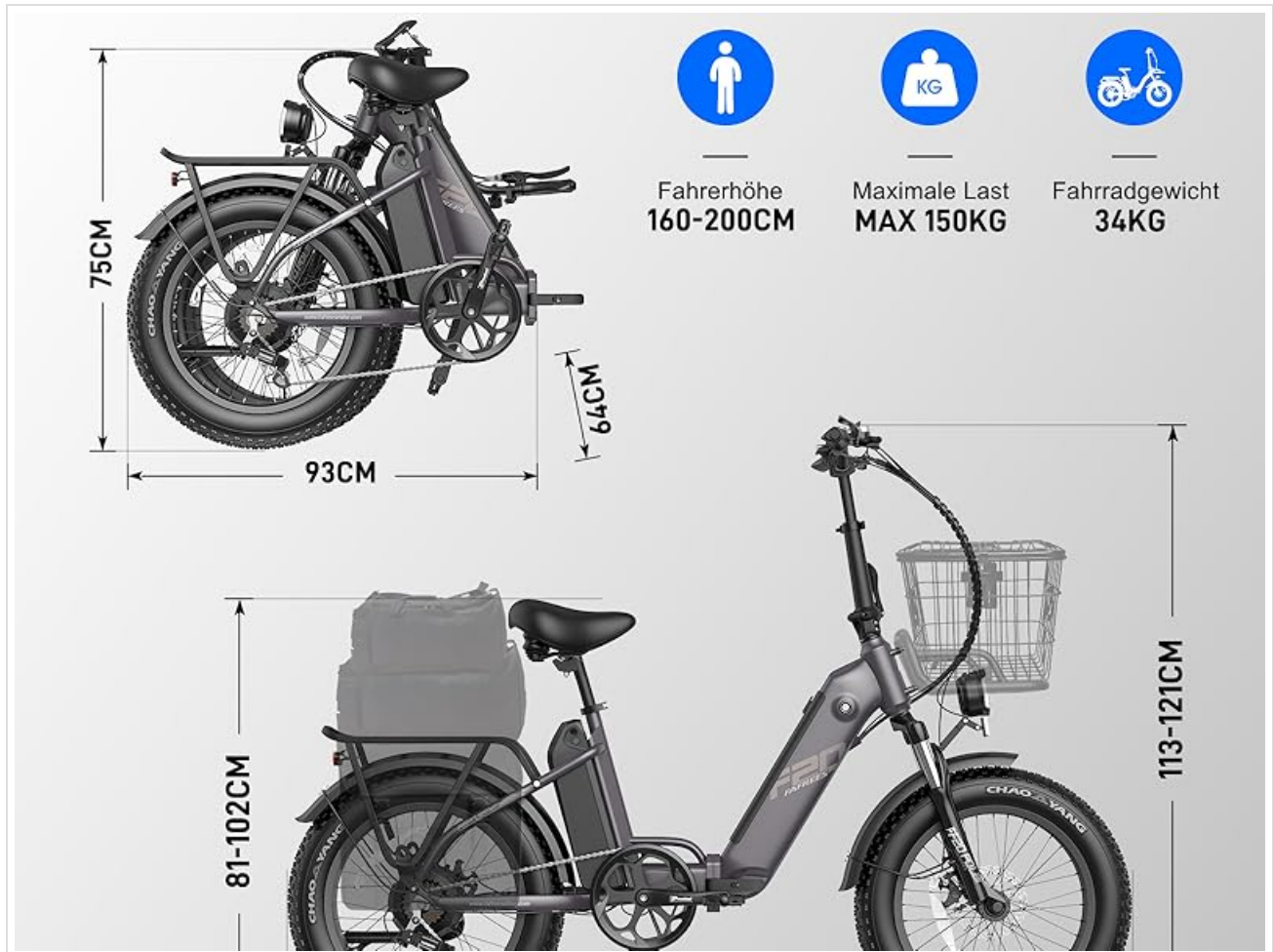


Image: Detailed dimensions of the Fafrees FF20 Polar E-Bike in both folded and unfolded states, along with rider height, maximum load, and bike weight specifications.

Operating Instructions

Familiarize yourself with the operating modes and features of your e-bike:

- **Power On/Off:** Press and hold the power button on the LCD display to turn the bike on or off.
- **LCD Display:** The high-resolution LCD display provides real-time information such as speed, battery level, mileage, and current gear. It also allows you to select from 5 preset speed levels.
- **Riding Modes:**
 - **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. You can adjust the level of assistance.
 - **Electric Mode:** Use the throttle for full electric power without pedaling.
 - **Manpower Mode:** Ride the bike like a traditional bicycle without any motor assistance.
- **Dual Battery System:** The FF20 Polar is equipped with two 48V 10.4Ah batteries, which can be used independently or together. A dual battery equalizer manages current flow, extending battery life and overall range up to 160 km in PAS mode.
- **Braking System:** The bike features efficient double disc brakes with 160mm F/L rotors and power-off brake levers, ensuring effective stopping even on loose terrain.
- **Fat Tires:** The CHAOYANG 20x4.0 fat tires offer increased traction, adapting to various riding conditions including snow, sand, mud, gravel, and flat roads.

- **Safety Features:** For night riding, the bike includes a super bright 15W front light and a 5W brake light. It also comes with rearview mirrors, an electric horn, and reflectors for enhanced visibility.

48V 26.8Ah 1286Wh

Dual Batteries



130-170km
PAS Mode



100-130km
Electric Mode



BMS Battery
Management



Main Battery
13.4Ah 643Wh



Second Battery
13.4Ah 643Wh

The dual-battery equalizer reduces the current intensity of each battery, increasing battery service life and mileage.

Image: Illustration of the Fafrees FF20 Polar E-Bike's dual battery system, highlighting its capacity and range capabilities.

Double Disc Brakes



Pedal Assist Mode



Electric Mode



Manpower Mode



Power-off brake



Image: Detailed view of the Fafrees FF20 Polar E-Bike's double disc brakes and the power-off brake lever, indicating the three riding modes.

Complete Safety Gear Day & Night



Image: A visual guide to the Fafrees FF20 Polar E-Bike's integrated safety equipment, such as the E-Mark headlight, electric horn, rearview mirrors, and various reflectors.

CHAOYANG 20*4.0 Fat Tires

4.0 fat tire with stronger friction that can adapt to a variety of riding environments



Snow road



Sand road



Mud Road



Gravel road



Flat terrain

Image: Close-up of the CHAOYANG 20x4.0 fat tires, demonstrating their suitability for diverse terrains including snow, sand, mud, gravel, and flat surfaces.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your Fafrees FF20 Polar E-Bike:

- **Cleaning:** Regularly clean your bike with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Battery Care:** Store batteries in a cool, dry place. If not used for extended periods, charge them every 1-2 months to maintain battery health. Avoid fully discharging the batteries.
- **Brake Inspection:** Periodically check brake pads for wear and ensure brake levers are responsive. Adjust or replace as needed.
- **Tire Pressure:** Check tire pressure before each ride and inflate to the recommended PSI.
- **Chain Lubrication:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **Fastener Check:** Regularly inspect all bolts and fasteners for tightness, especially after the first few rides.

Troubleshooting

If you encounter any issues with your Fafrees FF20 Polar E-Bike, consider the following:

- **Power Issues:** Ensure batteries are fully charged and properly seated. Check all electrical connections for looseness.
- **Motor Not Assisting:** Verify that the pedal assist level is set correctly on the LCD display. Check for any error codes on the display.
- **Brake Noise/Ineffectiveness:** Inspect brake pads for wear. Ensure disc rotors are clean and free of oil. Adjust brake cable tension if necessary.
- **Flat Tire:** Inspect the tire for punctures. If found, repair or replace the inner tube. Ensure proper tire pressure after repair.
- **General Problems:** For more complex issues, provide a detailed description of the problem, including any photos or videos if possible. This will assist our engineers in providing an effective solution.
- **Frame Number:** It is highly recommended to photograph your bike's frame number upon purchase. This unique identifier is crucial for identification and recovery in case of theft. The frame number is typically located on the underside of the bike frame.

Specifications







Feature	Specification
Brand	Fafrees
Model Number	Fafrees FF20 Polar
Bike Type	Electric Bicycle
Age Range	Adult
Color	Grey
Wheel Size	20 Inches
Frame Material	Aluminum
Suspension Type	Front
Number of Speeds	5
Product Dimensions	179 x 121 x 68 cm
Item Weight	34 Kilograms
Brake Type	Disc
Included Components	Fafrees FF20Polar E Bike mountain bike



Warranty and Support

Fafrees is committed to providing professional customer service. If you have any questions or require assistance with your FF20 Polar E-Bike, please do not hesitate to contact us. We aim to respond to all inquiries within 24 hours.

For support, please refer to the contact information provided at the point of purchase or on the official Fafrees website.

Related Documents - FF20 Polar

<div><div>FAFREES</div><div>User Manual</div><div></div></div>	<p>Fafrees FF20 Polar Electric Bicycle User Manual</p> <p>User manual for the Fafrees FF20 Polar electric bicycle, providing comprehensive guidance on assembly, operation, safety, maintenance, specifications, and troubleshooting.</p>
<div><div> FAFREES</div><div>Smart EV/Moped User Manual</div><div></div></div>	<p>FAFREES FF20 Polar Smart EV/Moped User Manual</p> <p>User manual for the FAFREES FF20 Polar Smart EV/Moped, covering operation, installation, and specifications. Learn how to safely use and maintain your electric moped.</p>
<div><div> FAFREES</div><div>Smart EV/Moped User Manual</div><div></div></div>	<p>FAFREES FF20 Polar Smart EV/Moped User Manual</p> <p>User manual for the FAFREES FF20 Polar Smart EV/Moped. Covers operation, safety, installation, specifications, and display functions for electric bicycles.</p>
<div><div>FAFREES</div><div>User Manual</div><div></div></div>	<p>FAFREES F20 Light Electric Bicycle User Manual - Assembly, Safety & Operation Guide</p> <p>Your essential guide to the FAFREES F20 Light Electric Bicycle. Discover assembly instructions, safety precautions, operating procedures, maintenance tips, specifications, and troubleshooting for your F20 Light ebike.</p>

<div data-bbox="150 120 277 152">FAFREES</div> <div data-bbox="178 181 248 203">User Manual</div> <div data-bbox="183 197 244 206"><small>F20 Mate Electric Tricycle</small></div> <div data-bbox="188 235 237 286"></div> <div data-bbox="183 284 244 291"><small>Scan to watch assembly video</small></div> <div data-bbox="188 324 244 333"><small>PDF PDF PDF PDF PDF</small></div>	<div data-bbox="341 271 884 300">Fafrees F20 Mate Electric Tricycle User Manual</div> <div data-bbox="341 311 1465 421"><p>Comprehensive user manual for the Fafrees F20 Mate Electric Tricycle, covering safety, operation, assembly, maintenance, specifications, and troubleshooting. Includes detailed instructions and warnings for optimal use.</p></div>
<div data-bbox="156 667 271 694">FAFREES</div> <div data-bbox="178 721 248 739">User Manual</div> <div data-bbox="183 734 244 743"><small>FF20 CUV Electric Bike</small></div> <div data-bbox="188 775 237 826"></div> <div data-bbox="183 824 244 831"><small>Scan to watch assembly video</small></div> <div data-bbox="178 862 248 873"><small>PDF PDF PDF PDF PDF</small></div>	<div data-bbox="341 719 1335 748">FAFREES FF20 CUV Electric Bike User Manual - Safety, Operation, and Specifications</div> <div data-bbox="341 759 1465 831"><p>Comprehensive user manual for the FAFREES FF20 CUV Electric Bike, covering assembly, safety guidelines, operation, maintenance, and technical specifications. Ensure safe and enjoyable riding.</p></div>