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FREESKY Eurostar Ultra

FREESKY 48V 23Ah 1500W Electric Bike User Manual

Model: Eurostar Ultra | Brand: FREESKY

INTRODUCTION

The FREESKY Eurostar Ultra electric bike is designed for adults seeking a powerful and versatile e-bike experience. Equipped with a 1500W peak motor and a 48V 23Ah battery, it offers impressive speed and range for various terrains. This manual provides essential information for the setup, operation, maintenance, and troubleshooting of your new electric bike.

Key features include full suspension for a comfortable ride, 26" fat tires for all-terrain capability, and advanced hydraulic disc brakes for superior stopping power. The integrated LCD display provides real-time riding metrics, enhancing your control and safety.

SETUP AND ASSEMBLY

Your FREESKY Eurostar Ultra electric bike arrives 85% pre-installed, simplifying the assembly process. The remaining steps can be easily completed by following the included user manual and instructional videos available on the product page. A tool kit is provided to assist with assembly.

Ensure all components are securely fastened before your first ride. Pay close attention to the handlebar, pedals, and seat installation. Proper assembly is crucial for safe and optimal performance.



Image: The FREESKY Eurostar Ultra electric bike, fully assembled, showcasing its design and components.

OPERATING YOUR E-BIKE

Power and Performance

The Eurostar Ultra is powered by a 1000W rear hub brushless motor, capable of reaching a peak power of 1500W. This motor delivers a maximum torque of 120 N.m, providing strong climbing power for inclines up to 40 degrees. The e-bike can achieve a top speed of 56 km/h (35 MPH) in pedal assist mode and 32 km/h (20 MPH) in throttle mode.

1500W PEAK MOTOR

Unmatched strength | Unrivaed speed

120 N.M



1000W
Rated Power



35MPH
Max Speed



40°
Max Uphill



7 SPEED
SHIMANO Gears



Image: Detailed view of the 1500W peak motor, highlighting its power, speed, and climbing capabilities.

The waterproof hidden battery is a 48V 25Ah (1200Wh) lithium-ion unit, UL2271-certified for safety. It offers a long range of 75-150 km (45-90 miles) in pedal assist mode, depending on riding conditions, terrain, weather, and rider weight. A full charge takes approximately 5-7 hours using the provided 54.6V 3A charger.

1200WH LITHIUM-ION BATTERY
48V 25AH

1000 Battery Cycle **TIMES** **95** Max Range **MILES**

UL[®]

BMS
Smart Protection

IP65
Waterproof Protection

54.6V 3A
Fast Charger

4-6 Hours
Fast Charging

Image: Illustration of the e-bike's integrated 48V 25Ah battery, emphasizing its waterproof design and charging specifications.

Riding Modes

The FREESKY Eurostar Ultra offers five distinct riding modes to adapt to your preferences and riding environment:

- **Electric Mode:** Utilizes the thumb throttle for pure electric propulsion.
- **Pedal Assist Mode:** Provides motor assistance as you pedal, extending range and reducing effort.
- **Cruise Mode:** Maintains a constant speed without continuous throttle input.
- **Manual Mode:** Operates as a traditional bicycle without electric assistance.

- **Walking Mode:** Provides low-speed assistance for pushing the bike, useful when walking alongside it.



Image: Visual representation of the five distinct riding modes available on the e-bike.

Display and Controls

The e-bike features a centered backlit LCD display that provides real-time metrics such as speed, mileage, battery power, and fault warnings. It also allows for adjustment of parameters and tracking of various trip options. An NFC function is integrated for smart key functionality.

CENTRED BACKLIT LCD DISPLAY

Promoting safer, smarter and easier riding



Image: The e-bike's LCD display, showing various metrics and the integrated USB charging port.

For braking, the Eurostar Ultra is equipped with sensitive 4-piston hydraulic disc brakes with larger 180mm rotors. This system ensures quick response times, significantly shortening braking distance and enhancing safety. The bike also features a Shimano 7-speed gear system for flexible riding across different terrains.

4-PISTON DUAL HYDRAULIC DISC BRAKES

180MM*2.3mm Disc



1. *Greater stopping power*
2. *Improved heat management*
3. *Better modulation*
4. *Enhanced control in demanding situations*



Image: Illustration comparing the performance benefits of 4-piston hydraulic disc brakes over mechanical disc brakes.

For visibility and safety, the e-bike includes an 800 lumens headlight, reflectors, and a horn. High-brightness turn signal taillights further improve visibility for oncoming traffic from behind.



Image: The e-bike's front headlight and rear reflector, designed for improved visibility and safety.

MAINTENANCE

Regular maintenance is essential to ensure the longevity and safe operation of your FREESKY Eurostar Ultra e-bike. Perform routine checks before and after each ride.

- **Tires:** The 26" x 4" fat tires are designed for various terrains including gravel, snow, sand, and urban environments. Regularly check tire pressure and inspect for wear or damage.
- **Brakes:** Inspect the hydraulic disc brakes and 180mm rotors for wear. Ensure brake levers provide firm and responsive stopping power. If braking performance degrades, professional inspection is recommended.
- **Battery:** Keep the battery charged and avoid fully depleting it. Store the bike and battery in a cool, dry place.
- **Suspension:** Check the lockable hydraulic front suspension fork and rear shock absorber for proper function and cleanliness.
- **Gears and Chain:** Keep the 7-speed Shimano gear system and chain clean and lubricated for smooth shifting.



Image: The versatile 26" x 4" fat tires, suitable for various terrains, emphasizing their wear, slip, and puncture resistance.

TROUBLESHOOTING

If you encounter issues with your e-bike, consider the following common troubleshooting steps:

- **No Power:** Check if the battery is properly seated and charged. Ensure the power button on the display is

pressed.

- **Motor Not Engaging:** Verify that the pedal assist level is set correctly or the throttle is engaged. Check for any error codes on the LCD display.
- **Braking Issues:** Inspect brake pads and rotors for wear. Ensure brake cables (if applicable) are not loose. For hydraulic brakes, check for fluid leaks or spongy feel, which may indicate air in the system requiring professional bleeding.
- **Unusual Noises:** Listen for the source of the noise. It could be loose components, chain issues, or brake rubbing. Address promptly to prevent further damage.

For persistent issues or complex repairs, it is recommended to contact FREESKY customer support or a certified e-bike technician.

SPECIFICATIONS

Below are the detailed specifications for the FREESKY Eurostar Ultra Electric Bike:

Feature	Specification
Bike Type	Electric Bike, Commuting Bike
Age Range (Description)	Adult
Brand	FREESKY
Number of Speeds	7
Color	Blue
Wheel Size	26 Inches
Frame Material	Aluminum
Suspension Type	Dual (Front Hydraulic Fork, Rear Shock Absorber)
Special Feature	Digital Display, Taillight, Dual Suspension, Dual Disc Brake (180 mm Rotor), Adjustable Seat
Included Components	Rear Rack, Full-fenders, Taillight, Charger, User Manual, Tool Kit
Item Weight	78 Pounds
Maximum Weight Recommendation	300 Pounds
Model Name	Eurostar Ultra
Power Source	Lithium Battery
Wattage	1000 watts (Peak 1500W)
Lithium Battery Energy Content	1200 Watt Hours (48V 25Ah)
Recommended Rider Height	5'3" - 6'8"



Image: Dimensional overview of the e-bike, including recommended rider height and load capacity.

WARRANTY AND SUPPORT

FREESKY provides comprehensive warranty coverage for your electric bike:

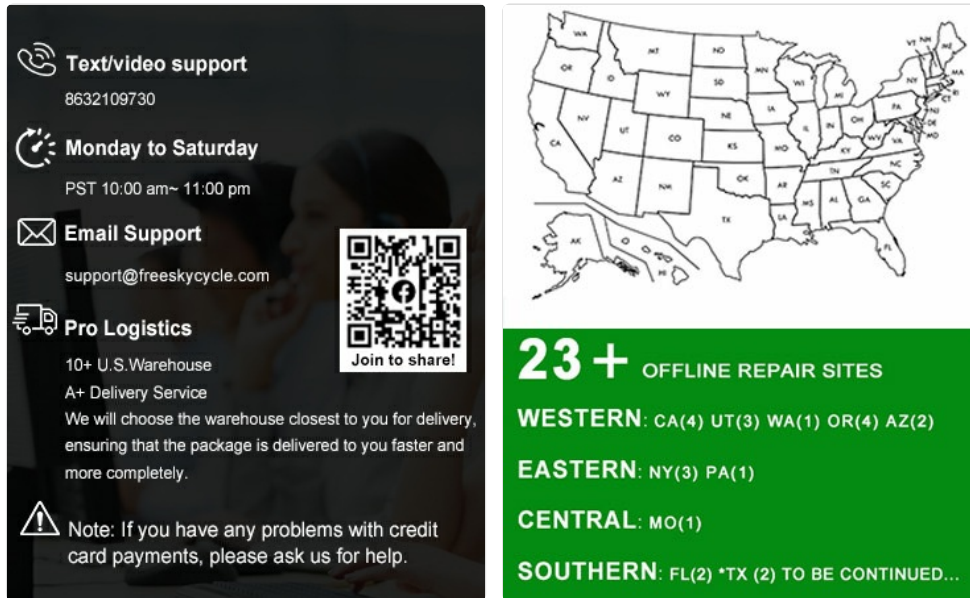
- **18 Months:** For the motor, battery, and controller.
- **12 Months:** For other parts.

For detailed warranty terms and conditions, please refer to the official warranty document: [FREESKY Warranty PDF](#).

Our professional customer service team is available to address any questions or concerns you may have. You can reach us via:

- **Text/Video Support:** 8632109730 (Monday to Saturday, PST 10:00 AM - 11:00 PM)
- **Email Support:** support@freeskycycle.com

FREESKY also offers professional logistics with over 10 U.S. warehouses and A+ Delivery Service, ensuring efficient delivery. Additionally, there are 23+ offline repair sites across Western, Eastern, Central, and Southern US regions for convenient service.



The image contains two main sections. On the left is a dark-themed card with white text and icons. On the right is a map of the United States with a green overlay at the bottom containing text about repair sites.

Text/video support
8632109730

Monday to Saturday
PST 10:00 am~ 11:00 pm

Email Support
support@freeskycycle.com

Pro Logistics
10+ U.S. Warehouse
A+ Delivery Service
We will choose the warehouse closest to you for delivery, ensuring that the package is delivered to you faster and more completely.

Note: If you have any problems with credit card payments, please ask us for help.

23+ OFFLINE REPAIR SITES

WESTERN: CA(4) UT(3) WA(1) OR(4) AZ(2)

EASTERN: NY(3) PA(1)

CENTRAL: MO(1)

SOUTHERN: FL(2) *TX (2) TO BE CONTINUED...

Images: FREESKY customer support contact details and a map indicating offline repair site locations.