FREESKY Swift Horse Pro

FREESKY 2000W Electric Bike User Manual

Model: Swift Horse Pro

Brand: FREESKY

1. Introduction

Welcome to the FREESKY 2000W Electric Bike user manual. This guide provides essential information for the safe operation, maintenance, and optimal performance of your new electric bicycle. Please read this manual thoroughly before your first ride and keep it for future reference.

The FREESKY Swift Horse Pro is a powerful electric mountain bike designed for thrilling and comfortable rides across various terrains. It features a 1000W (Peak 2000W) Bafang motor, a 48V 30Ah Samsung Cells battery, dual suspension, and hydraulic 4-piston disc brakes. Its smart key card system and advanced lighting enhance convenience and security.



Figure 1: FREESKY Swift Horse Pro Electric Bike

2. Key Features

2.1 Powerful BAFANG Motor

Equipped with a 1000W BAFANG motor (peak 2000W) and 130Nm torque, this e-bike can conquer 40° slopes effortlessly and reach speeds of up to 35 MPH (pedal assist) or 20 MPH (throttle-only). The BAFANG motor is designed for overheating protection, low energy consumption, and superior performance across all terrains.



Figure 2: Powerful BAFANG Motor System

2.2 Long-Range Samsung Cells Battery

The hidden, removable 48V 30Ah Samsung cells battery provides an impressive range of 75-120 miles in pedal-assist mode. It is UL2271-certified by TÜV SÜD, ensuring safety and performance. The battery charges in 6-8 hours with the included 54V 3A charger. Samsung cells contribute to enhanced durability, stability, and a longer lifespan.



Figure 3: High-Capacity Samsung Cells Battery

2.3 Full Suspension System

Experience a smoother ride with the bike's lockable hydraulic suspension system, featuring a double crown fork and rear suspension. This system effectively absorbs bumps and uneven terrain, enhancing comfort and control.



Figure 4: Double Shoulder Fork and Rear Suspension

2.4 Hydraulic Disc Brakes

Dual 180mm hydraulic disc brakes with 4-piston calipers provide reliable and responsive stopping power in all conditions, including rain and off-road environments. This system ensures enhanced safety and reduced hand fatigue.



Figure 5: High-Performance Hydraulic Disc Brakes

2.5 CST All-Terrain Fat Tires

The 26"x4" CST fat tires provide excellent grip and stability across various terrains, from gravel and sand to mountain trails and snow. They also contribute to a more comfortable ride by absorbing minor shocks.



Figure 6: Durable CST All-Terrain Fat Tires

2.6 Shimano 7-Speed Gear System

The integrated Shimano 7-speed gear system allows for smooth and efficient gear changes, adapting to different riding conditions and rider preferences. This ensures an optimal cadence for both beginners and experienced cyclists.



Figure 7: Shimano 7-Speed Gear System

3. Setup

Your FREESKY electric bike arrives 85% pre-installed, making assembly quick and straightforward. Most users can complete the setup in 15-30 minutes.

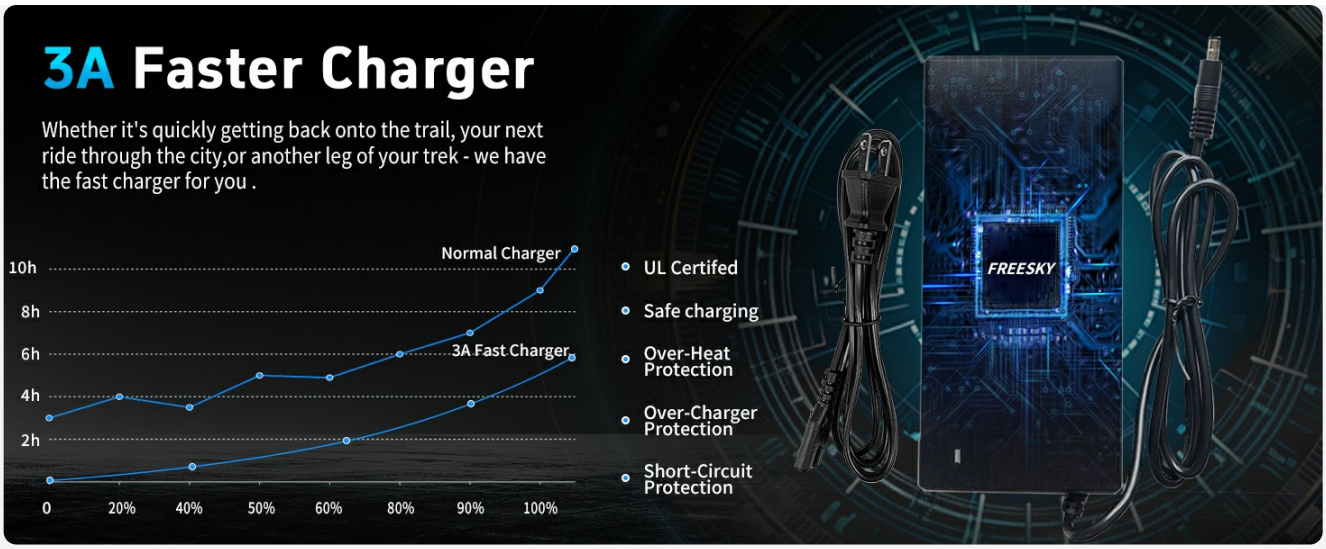


Figure 8: Partially Assembled Bike and Included Tools

3.1 Initial Assembly

1. Carefully unpack all components from the box.
2. Attach the front wheel, handlebars, pedals, and seat post. Refer to the included detailed instruction booklet for step-by-step guidance.
3. Ensure all pre-assembled parts are securely tightened and inspected for any shipping damage. It is recommended to have a second person assist with assembly due to the bike's weight.

3.2 Battery Charging

Before your first ride, fully charge the battery. The 48V 30Ah Samsung cells battery charges in 6-8 hours using the provided 54V 3A charger. The charger is UL certified and features over-heat, over-charger, and short-circuit protection.

- Connect the charger to the bike's charging port.
- Plug the charger into a standard wall outlet.
- The display will indicate charging status. Disconnect once fully charged.

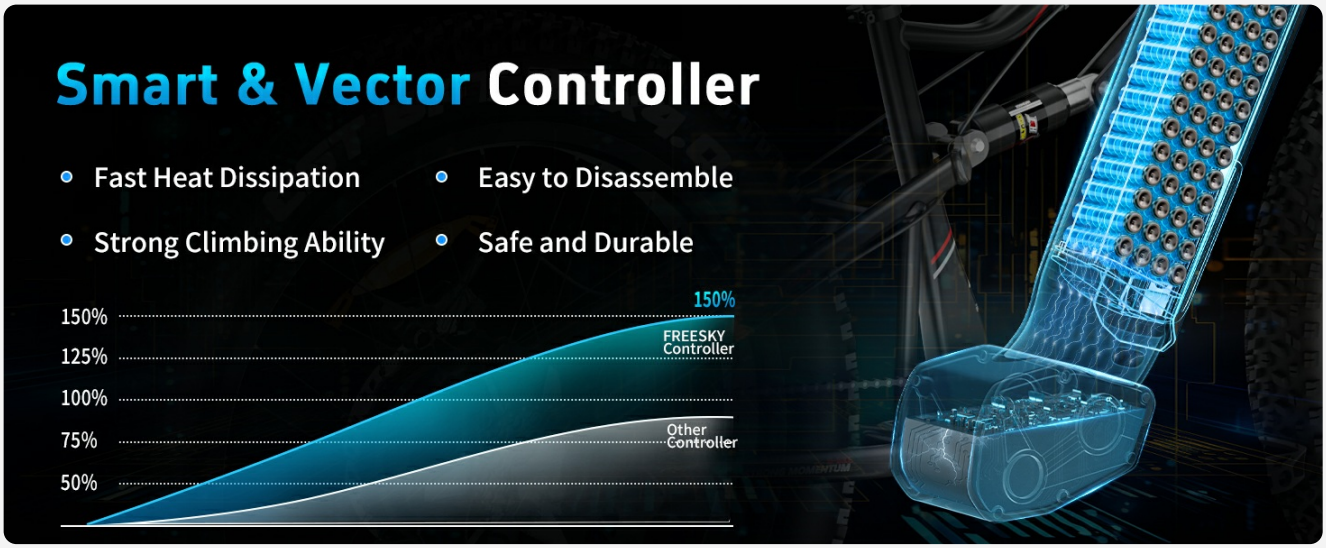


Figure 9: Battery Charging with 3A Fast Charger

4. Operating Instructions

4.1 Riding Modes

Your FREESKY electric bike offers 5 distinct riding modes to suit various needs and terrains:

- **Electric Mode:** Full throttle, no pedaling required.
- **Pedal-Assist Mode:** Motor provides assistance as you pedal (5 levels of assistance).
- **Cruise Mode:** Maintains a set speed without continuous throttle or pedaling.
- **Manual Mode:** Ride like a traditional bicycle, using only pedal power and the 7-speed gear system.
- **Walk Mode:** Provides low-speed assistance for walking the bike alongside you.



Figure 10: Overview of Riding Modes



Figure 11: Riding Modes for Various Terrains

4.2 HD Colorful Display & Smart Keys

The high-definition colorful display provides clear visibility even in direct sunlight, showing essential information like speed, battery level, distance, and current pedal-assist level. The bike can be activated by swiping the Smart Key card or entering a password, enhancing convenience and security. A Type-C charging port under the display allows you to charge your mobile phone on the go.



Figure 12: HD Colorful Display and Smart Key System

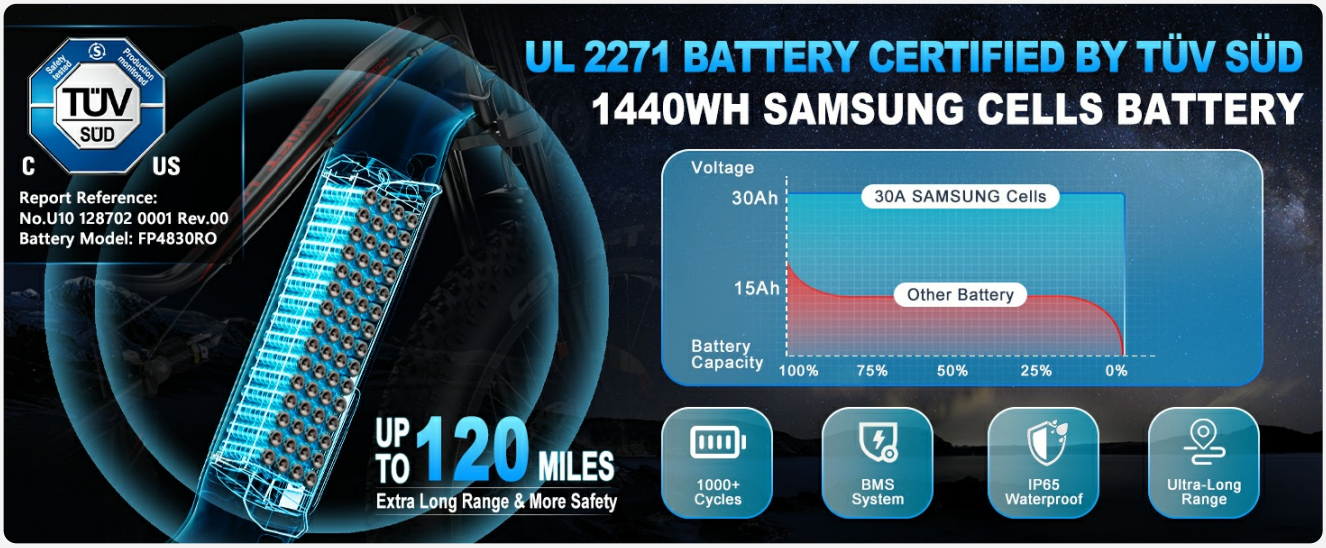


Figure 13: Detailed View of HD Colorful Display

4.3 Safety Features

For safe night rides, the bike is equipped with an 800-lumen headlight, turn and brake lights, reflectors, and a horn. These features ensure you are visible to others and can signal your intentions effectively.



Figure 14: Headlight, Turn Signals, and Brake Light



Figure 15: Enhanced Visibility Features

4.4 Product Video

Watch this official product video for a visual guide on the Swift Horse Pro's features and operation:

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Video 1: Smart Riding Made Easy: Swift Horse Pro's Hidden Features!
This video showcases the key functionalities and design aspects of the FREESKY Swift Horse Pro electric bike, including its frame, suspension, battery, motor, and display.

5. Maintenance

Regular maintenance is crucial for the longevity and safe operation of your electric bike.

5.1 Battery Care

- Charge the battery regularly, even if not in frequent use, to maintain its health.
- Avoid completely draining the battery before recharging.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- The battery features BMS (Battery Management System) for intelligent safety, including thermal, over-voltage, over-current, over-discharge, over-temperature, and over-charge protection.

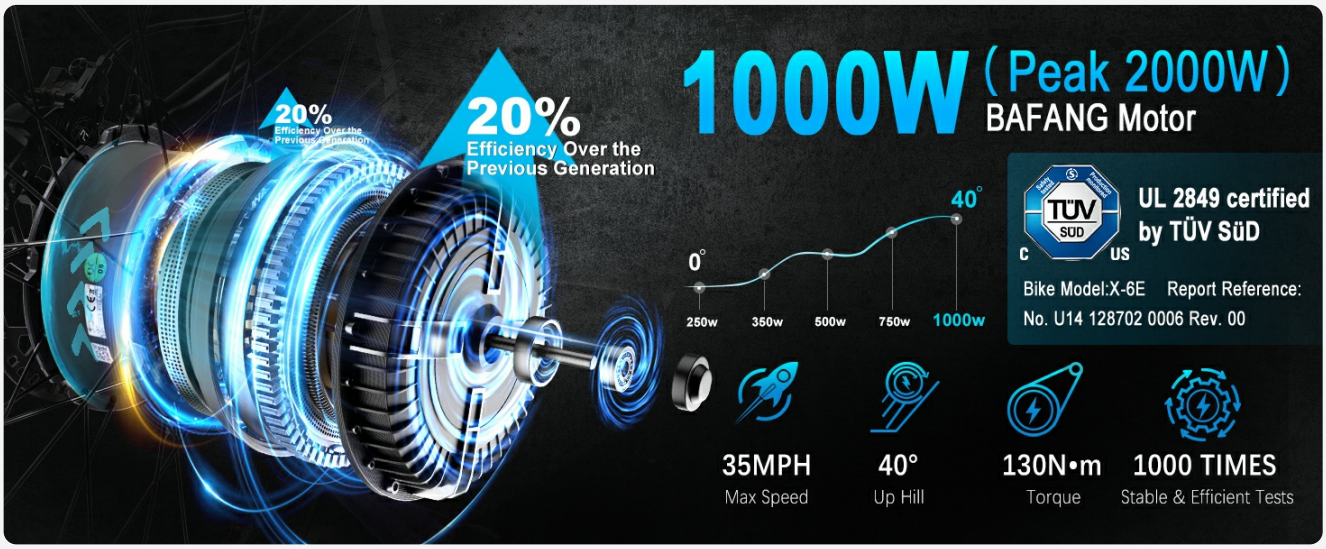


Figure 16: Battery Management System Protections

5.2 General Bike Maintenance

- Regularly check tire pressure and inflate to recommended levels.
- Inspect brake pads and rotors for wear and ensure proper braking function.
- Keep the chain clean and lubricated.
- Check all bolts and fasteners for tightness before each ride.
- Clean the bike regularly with a damp cloth, avoiding direct high-pressure water on electrical components.

6. Troubleshooting

This section addresses common issues you might encounter with your FREESKY electric bike. For more complex problems, please contact customer support.

Problem	Possible Cause	Solution
Bike does not power on.	Battery is low or not properly seated; power cable loose.	Charge the battery; ensure battery is fully inserted and locked; check all cable connections.
Motor not assisting.	Pedal-assist level is zero; brake levers engaged; motor connection loose.	Increase pedal-assist level on display; release brake levers; check motor cable connection.
Brakes feel weak.	Worn brake pads; air in hydraulic system; misaligned calipers.	Inspect and replace brake pads if worn; consult a bike technician for hydraulic system bleeding or caliper adjustment.
Unusual noises during ride.	Loose components; dry chain; debris in drivetrain.	Check all bolts and connections; lubricate chain; clean drivetrain components.

7. Specifications

Detailed specifications for the FREESKY Swift Horse Pro Electric Bike:

Bike Type: Mountain Bike

Age Range: Adult

Brand: FREESKY

Model Name: Swift Horse Pro

Motor: 1000W BAFANG (Peak 2000W)

Battery: 48V 30Ah Samsung Cells (UL 2271 Certified)

Max Speed: 35 MPH (pedal assist) / 20 MPH (throttle-only)

Max Range: 75-120 Miles (pedal-assist mode)

Frame Material: 6061 Aluminum Alloy

Suspension Type: Dual (Double Shoulder Fork & Rear Suspension)

Brake Style: Hydraulic Disc (4-piston, 180mm)

Wheel Size: 26 Inches

Tires: 26"x4" CST Fat Tires

Number of Speeds: 7 (Shimano Gear System)

Maximum Weight Recommendation: 300 Pounds

Included Components: Manual, Charger, Tool Kit



Figure 17: Swift Horse Pro Size and Load Capacity



Figure 18: Detailed Dimensions of the Swift Horse Pro

8. Warranty & Support

FREESKY provides comprehensive warranty coverage for your electric bike:

- **Motor, Battery, and Controller:** 18-month warranty.
- **Other Parts:** 12-month warranty.

The battery is UL 2849 and UL 2271 certified, ensuring enhanced reliability and safety.



Figure 19: UL Certification for Safety

8.1 Customer Support

If you have any questions, require assistance, or need to make a warranty claim, please contact FREESKY customer support. You can typically find contact information on the official FREESKY website or through the seller's contact details on the platform where you purchased the bike (e.g., FREESKYStore on Amazon).

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