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FD FREEDARE EDEN

FREEDARE Eden Electric Bike User Manual

Model: EDEN

1. INTRODUCTION AND OVERVIEW

Welcome to the FREEDARE Eden Electric Bike user manual. This guide provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new electric bike. The FREEDARE Eden is designed for adults, featuring a powerful 250W motor, a long-lasting 48V 20Ah battery, and robust 26x4 inch KENDA fat tires, making it suitable for various terrains from urban roads to snow and sand.



Figure 1.1: The FREEDARE Eden Electric Bike in red, showcasing its robust design and integrated features.

FREEDARE E-BIKE

CARATTERISTICHE TECNICHE



150KM
Per Carica



250W
Motore



48V 20AH
Batteria di
Marca



Sensore di Coppia



26*4"
Pneumatici
Larghi KENDA



Cambio
SHIMANO 7
Velocità



25KM/H
Velocità Max



GPS
Sistema Antifurto



APP
Controllo da App



Pianificazione
del Percorso

Figure 1.2: Overview of key technical specifications including 150KM per charge, 250W motor, 48V 20AH battery, torque sensor, 26x4 inch Kenda tires, Shimano 7-speed, 25KM/H max speed, GPS anti-theft system, APP control, and route planning.

2. SAFETY INFORMATION

Always prioritize safety when operating your electric bike. Read and understand all instructions before your first ride. Ensure all components are properly assembled and secured. Wear a helmet and appropriate safety gear. Be aware

of local traffic laws and regulations.

2.1 Water Resistance and Certifications

The FREEDARE Eden Electric Bike has an **IPX6 water resistance rating**, providing protection against strong jets of water. This ensures reliable performance in various weather conditions, including rain. The bike is certified according to **EN15194 and CE RED standards**, ensuring compliance with European safety and quality requirements.

3. COMPONENTS AND FEATURES

3.1 Motor

The bike is equipped with a powerful **250W brushless motor**, delivering 90-105NM of torque. This motor allows for a maximum speed of 25 km/h and can easily handle inclines up to 30 degrees, providing robust assistance for various riding conditions.



Figure 3.1: Illustration of the powerful 250W brushless motor, highlighting its internal components and power delivery.

3.2 Battery

The FREEDARE Eden features a high-capacity **48V 20Ah removable battery**. With intelligent BMS (Battery Management System) for safety and energy saving, it offers an impressive range of up to 150 km on a single charge. Full charging takes approximately 6-8 hours.

BATTERIA DI MARCA REMOVIBILE

48V 20AH



960Wh
21700 Batteria



60-150km
Chilometraggio



BMS
Protezione Intelligente



6-8H
3A Carga Rápida



IPX6
Impermeabile

Figure 3.2: Detailed view of the removable 48V 20Ah battery, showing its internal structure and key features like 960Wh capacity, 60-150km range, BMS, 6-8H fast charge, and IPX6 waterproofing.

3.3 Tires

Equipped with **KENDA 26x4 inch fat tires**, the bike provides robust performance and excellent grip across various terrains, including urban roads, mountains, snow, and sand. The anti-puncture tread enhances durability and reliability.

26X4" PNEUMATICI FAT PER OGNI TERRENO

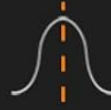
Adatto a tutte le strade



Neve



Sabbia



Terreno
montano



Asfalto
cittadino



Figure 3.3: Visual representation of the 26x4 inch fat tires, illustrating their suitability for snow, sand, mountain terrain, and city asphalt.

3.4 Brakes

The FREEDARE Eden features **hydraulic disc brakes**, offering superior stopping power and reliability in all weather conditions, ensuring maximum safety during your rides.

Forcella Ammortizzata in Alluminio

Regola la morbidezza o la rigidità nell'ammortizzatore in base al terreno e alle esigenze di guida.
Affronta ogni dosso e strada dissestata con sicurezza.



Figure 3.4: A rider on the FREEDARE Edén E-bike, highlighting the hydraulic disc brakes for safe riding on various terrains.

3.5 Suspension

An **adjustable front suspension fork** absorbs shocks and bumps, providing a smooth and comfortable ride even on uneven terrain. You can adjust the softness or rigidity of the shock absorber based on the terrain and riding needs.

FORCELLA AMMORTIZZATA REGOLABILE

La forcella ammortizzata regolabile assicura comfort perfetto su ogni terreno.



Figure 3.5: Close-up of the adjustable suspension fork, illustrating its mechanism for absorbing impacts and ensuring a comfortable ride.

3.6 Gears

The bike features a reliable **SHIMANO 7-speed gear system**, allowing you to easily adjust your pedaling effort to match different speeds and terrains.

3.7 Display

A clear **TFT color display** provides real-time information such as battery level, current speed, and mileage, ensuring you have all necessary data at a glance.

Adatto a Tutti i Terreni

L'e-bike all-terrain progettata per comfort sui lunghi percorsi. La bici perfetta per dominare strade cittadine, spiagge, neve e sentieri. Seguici per scoprire funzionalità esclusive.



Figure 3.6: The TFT digital display, showing battery level, speed, and trip information, designed for clear visibility even in wet conditions.

3.8 Lighting

The integrated **IPX6 waterproof headlight** ensures visibility and safety during night rides or in low-light conditions. It can be controlled from the handlebar or via the app.



Multi-Function Configuration

Preparati per l'avventura! La bici eden include un cestino anteriore, un portapacchi posteriore e un parafrangente. Il portapacchi posteriore supporta fino a 25 kg, perfetto per la spesa o per una gita nel weekend.

- 1. Display TFT
- 2. Multi-function
- 3. Fari anteriori
- 4. Sella Comfort

Figure 3.7: Close-up of the bright front headlight, designed for clear illumination during night rides and featuring IPX6 waterproofing.

3.9 Saddle and Handlebar

The bike features an **ergonomic saddle** for maximum comfort during long distances and a **professional mountain bike handlebar** for optimal control and handling.



Fari Anteriori Luminosi

Il faro anteriore con catanfrangente illumina i tuoi percorsi notturni ed è impermeabile IPX6 per un utilizzo senza preoccupazioni anche sotto la pioggia. Controllato dal manubrio o tramite app.

- 1. Display TFT
- 2. Multi-function
- 3. Fari anteriori
- 4. Sella Comfort

Figure 3.8: The wide and soft saddle, designed for enhanced comfort during extended rides.

3.10 Accessories

The FREEDARE Eden includes a **front basket**, a **rear rack** with a capacity of up to 25 kg, and **fenders**, enhancing its utility for daily commutes and weekend adventures.



Display TFT

Controlla facilmente tutti i dettagli di guida e la capacità residua della batteria. In più, la bici Saiga ha una classificazione IPX6 antiacqua, perfetta per ogni giorno di pioggia.

1. Display TFT

2. Multi-function

3. Fari anteriori

4. Sella Comfort

Figure 3.9: The multi-function configuration, showcasing the integrated front basket and rear rack for carrying items.

4. SETUP

4.1 Pre-Assembly

Your FREEDARE Eden Electric Bike arrives **85% pre-assembled**. This significantly simplifies the setup process. A detailed assembly video and guide are included to assist you with the final steps.

4.2 Initial Battery Charging

Before your first ride, fully charge the battery. Connect the charger to the battery port and then to a power outlet. The indicator light on the charger will change to signal a full charge. Refer to the battery section for more details on charging times.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

To power on the bike, press and hold the power button on the display. To power off, press and hold the same button until the display turns off.

5.2 Using the Display

The TFT color display provides real-time data. Use the buttons near the display to cycle through information such as current speed, average speed, max speed, trip distance, total odometer, and battery level. Adjust assistance levels as needed.

5.3 Gear Shifting

Utilize the SHIMANO 7-speed shifter on the handlebar to change gears. Shift to a lower gear for climbing hills and a higher gear for flat terrain or downhill riding. Always shift gears while pedaling lightly to ensure smooth transitions and prevent damage to the drivetrain.

5.4 Smart App Control

The FREEDARE App enhances your riding experience with integrated Bluetooth, 4G, and GPS functionalities. It offers advanced features for smart and protected riding.

- **Self-Diagnosis:** The app integrates an intelligent e-bike inspection system, allowing you to verify every electrical component and detect anomalies or malfunctions in real-time.
- **Anti-Theft with GPS Tracking:** The system includes an anti-theft feature with real-time location tracking and movement alarms. Once the bike is locked, the alarm monitors movements and notifies you of unauthorized activity, making it easy to locate your e-bike.
- **Personal Route Planning:** Plan unique routes in advance. The app will notify you upon reaching your destination and suggest recommended itineraries. You can also share these routes with friends.
- **Theft and Fall Alerts:** Receive real-time notifications for potential theft or if the bike falls over.

CONTROLLO SMART VIA APP



Pianificazione Percorsi
Personalizzati



Avvisi di Furto
e Caduta



Tracciamento GPS
Antifurto



Sistema Intelligente
di Ispezione per E-bike



L'APP Freedare ti mostra velocità, batteria e percorso in tempo reale, per una guida fluida e senza sforzo.

Figure 5.1: The FREEDARE App interface showing real-time speed, battery, and route information, alongside the bike's TFT display.



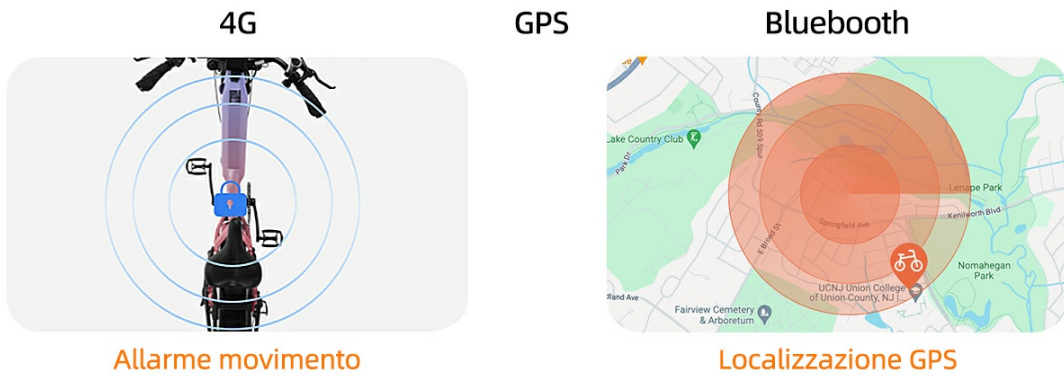
Sella Ampia e Morbida

Comfort senza pari grazie a una sella extra-morbida per pedalate rilassanti.

- 1. Display TFT
- 2. Multi-function
- 3. Fari anteriori
- 4. Sella Comfort

Figure 5.2: Diagram illustrating the GPS anti-theft system with 4G, GPS localization, and movement alarm features.

Antifurto GPS



Allarme movimento

Una volta bloccata la bici, l'allarme integrato monitora i movimenti e ti avvisa di quelli non autorizzati, mentre l'App Freedare rende facile localizzare la tua e-bike.

Localizzazione GPS

Figure 5.3: Visual representation of the app's smart journey planning feature, allowing users to define start and end points for their rides.



Scopri il Mondo con Viaggi Intelligenti

L'app FREEDARE supporta modifiche e personalizzazioni, permettendoti di pianificare in anticipo percorsi unici. L'app ti avviserà al loro raggiungimento e suggerirà itinerari consigliati. Potrai anche condividere questi percorsi con gli amici!

Figure 5.4: Diagram showing the IoT system integration for assisted diagnosis, allowing users to check various bike components via the app.

6. MAINTENANCE

6.1 Battery Care

- Always use the original charger provided.
- Do not overcharge or completely drain the battery.
- Store the battery in a cool, dry place when not in use, ideally charged to 50-70%.
- Avoid exposing the battery to extreme temperatures.

6.2 Tire Pressure

Regularly check tire pressure to ensure optimal performance and safety. Refer to the tire sidewall for recommended pressure ranges. Proper inflation improves ride quality, battery range, and tire longevity.

6.3 Brake Checks

Inspect brake levers and pads regularly. Ensure the brakes engage smoothly and effectively. If you notice any issues with braking performance, consult a qualified bicycle mechanic.

6.4 General Cleaning

Clean your e-bike regularly with a damp cloth and mild soap. Avoid using high-pressure washers directly on electrical components. Lubricate the chain periodically to ensure smooth operation.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, utilize the self-diagnosis feature in the FREEDARE App or contact customer support.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not properly seated; loose connections.	Ensure battery is fully charged and securely inserted. Check all cable connections.
Motor not assisting	Low battery; assistance level set to zero; sensor issue.	Charge battery. Increase assistance level on display. Check app for sensor diagnosis.
Display not working	Loose cable connection; display damage.	Check display cable connection. If issue persists, contact support.
Brakes feel spongy	Air in hydraulic lines; worn brake pads.	Bleed brake lines or replace brake pads. Professional service recommended.

8. SPECIFICATIONS

Below are the detailed specifications for the FREEDARE Eden Electric Bike:

Feature	Specification
Model Name	EDEN
Brand	FD FREEDARE
Motor Power	250W Brushless (90-105NM)
Max Speed	25 km/h
Climbing Ability	Up to 30° incline
Battery	48V 20Ah (960Wh) Removable
Range per Charge	Up to 150 km
Charging Time	6-8 hours
Tires	KENDA 26x4 inch Fat Tires
Brakes	Hydraulic Disc Brakes
Gears	SHIMANO 7-Speed
Frame Material	Aluminum
Suspension	Adjustable Front Suspension
Water Resistance	IPX6
Product Weight	37.1 kg
Max Load Capacity	150 kg
Recommended Rider Height	160-195 cm
Included Components	User Manual
Certifications	EN15194, CE RED

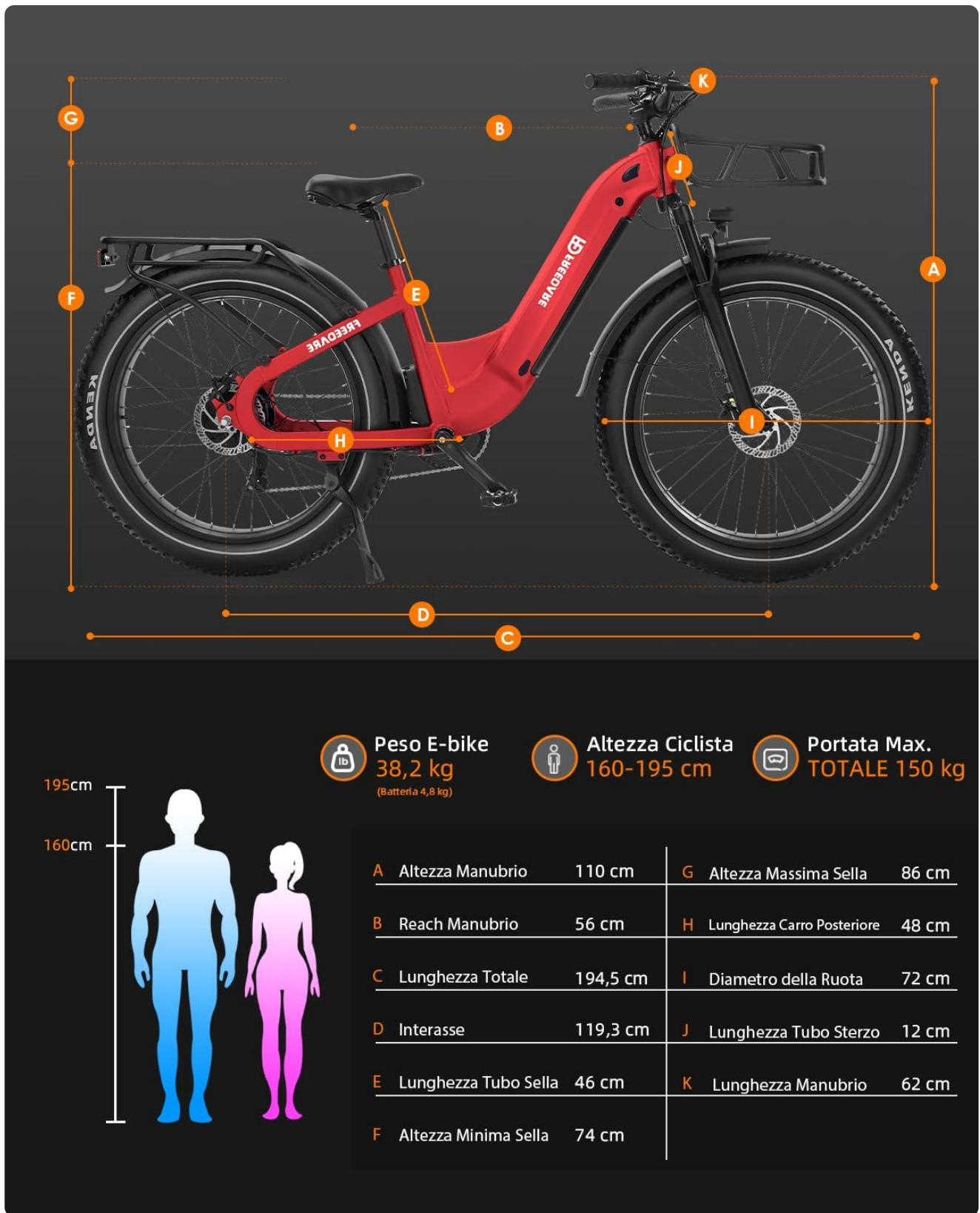


Figure 8.1: Detailed dimensions of the FREEDARE Eden E-bike and recommended rider height range (160-195 cm) and maximum load (150 kg).

9. WARRANTY AND SUPPORT

The FREEDARE Eden Electric Bike comes with a **12-month warranty**, covering manufacturing defects and major component failures under normal use. Please retain your proof of purchase for warranty claims.

For any questions, technical assistance, or warranty support, please contact our customer service team. Refer to the contact information provided with your purchase documentation or visit the official FREEDARE website for support details.