

DEEPOWER S20

DEEPOWER S20 Electric Bicycle User Manual

Model: S20

Brand: DEEPOWER

1. IMPORTANT SAFETY INFORMATION

Before operating your DEEPOWER S20 electric bicycle, please read this manual thoroughly. Failure to follow safety instructions can result in serious injury or damage to the product.

- **Helmet Use:** Always wear a certified helmet when riding.
- **Pre-Ride Check:** Before each ride, check tire pressure, brake function, battery charge, and ensure all bolts and quick releases are secure.
- **Weather Conditions:** Avoid riding in heavy rain, snow, or icy conditions. The IPX4 water resistance protects against splashes but not submersion or heavy downpours.
- **Traffic Laws:** Obey all local traffic laws and regulations.
- **Weight Limit:** Do not exceed the maximum recommended load capacity of 300 lbs (136 kg).
- **Age Recommendation:** This electric bicycle is designed for adult use.
- **Battery Safety:** Do not attempt to open or modify the battery. Use only the provided charger. Avoid exposing the battery to extreme temperatures.
- **Visibility:** Utilize the integrated headlight and taillights, especially during low-light conditions. Consider wearing reflective clothing.

2. PRODUCT OVERVIEW

The DEEPOWER S20 is an adult electric bicycle designed for versatile terrain, featuring a powerful motor, long-range removable battery, and full suspension for a comfortable ride.



Image: The DEEPOWER S20 Electric Bicycle, showcasing its robust design and fat tires, ideal for various terrains.

Key Features:

- **Powerful Brushless Motor:** Provides strong acceleration and uphill capability (up to 30° incline).

LCD High-Definition Display

The intelligent display shows your speed, battery level, mileage, and other data, keeping you prepared for all road conditions.



Speed



Mileage



Battery Level

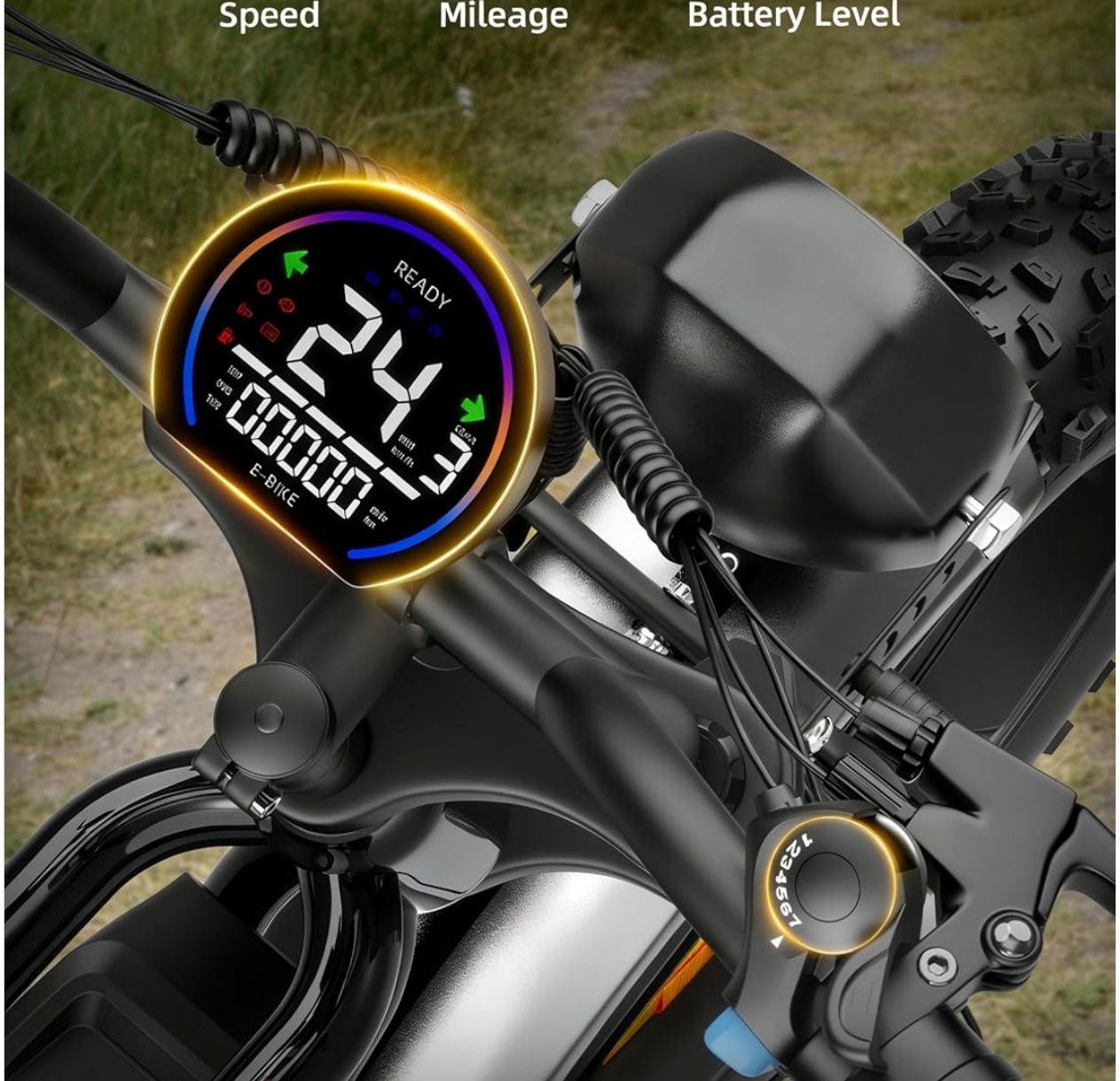


Image: Detailed view of the DEEPOWER S20's brushless hub motor, highlighting its powerful design.

- **Removable 48V 20Ah Battery:** Offers an extended range of up to 110 km (pedal assist mode) and 55 km (full electric mode). Features integrated BMS for protection and IPX4 water resistance.
- **20-inch Fat Tires:** Designed for all-terrain riding, including urban roads, dirt paths, sand, and snow.
- **7-Speed Gear System:** Smooth and adaptable for various riding conditions.
- **Full Suspension:** Hydraulic rear shock absorber and suspension fork ensure stability and comfort.

Customize Your Ride



5'3"-6'4"

Recommended height



84 LBS

Bicycle weight



330 LBS

Load capacity



Image: Front suspension and mechanical disc brake system of the DEEPOWER S20, emphasizing safety and comfort.

- **Mechanical Disc Brakes:** Provide reliable stopping power.
- **LCD High-Definition Display:** Shows real-time speed, mileage, and battery level.
- **Integrated Lighting:** Bright front headlight and rear signal lights for enhanced visibility.

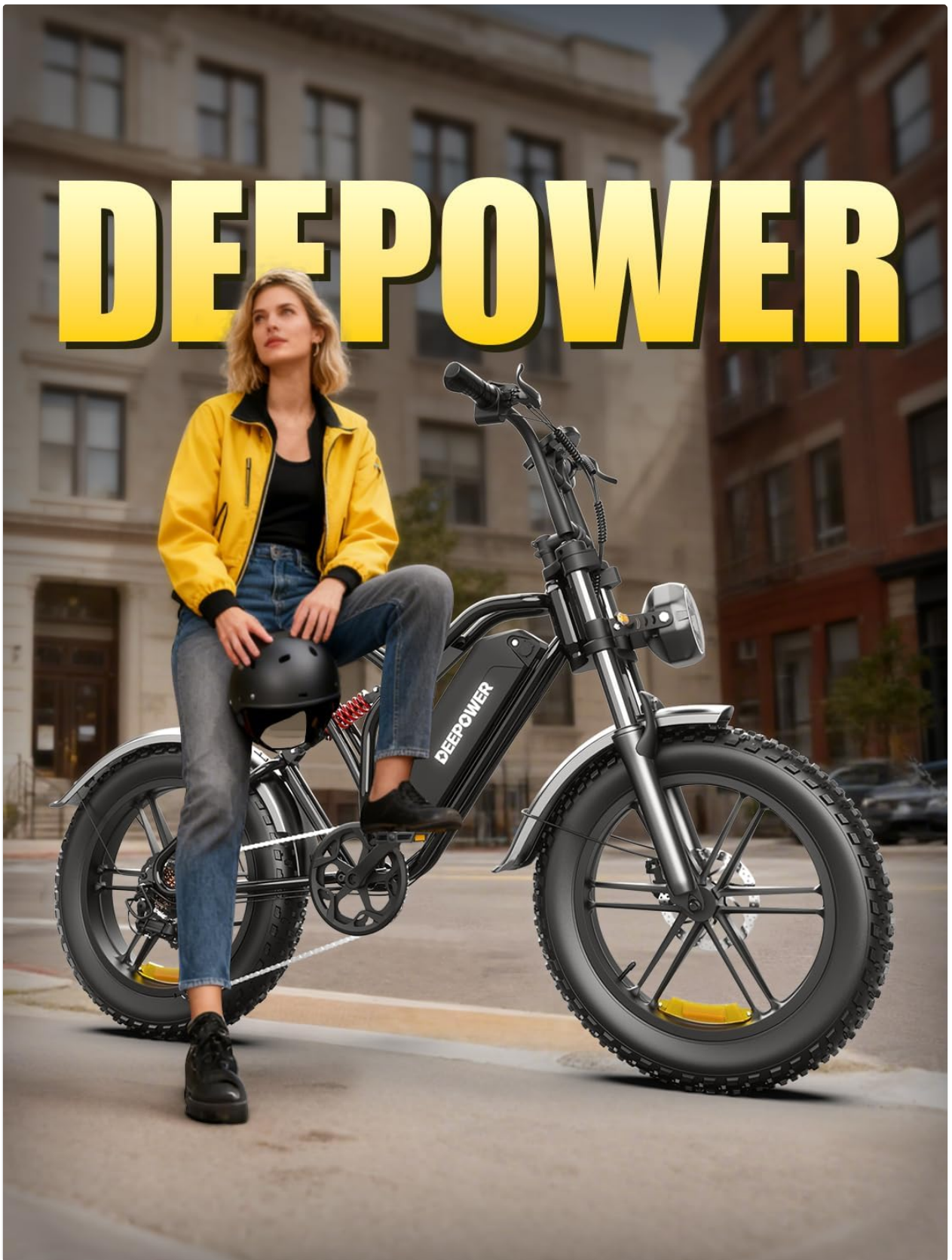


Image: Integrated lighting system of the DEEPOWER S20, including the headlight, warning light, and turn signals for safe riding.

3. ASSEMBLY AND SETUP

Your DEEPOWER S20 electric bicycle arrives 90% pre-assembled. Follow these steps for quick setup.

3.1 Unboxing and Initial Inspection

1. Carefully remove the bicycle and all components from the packaging.

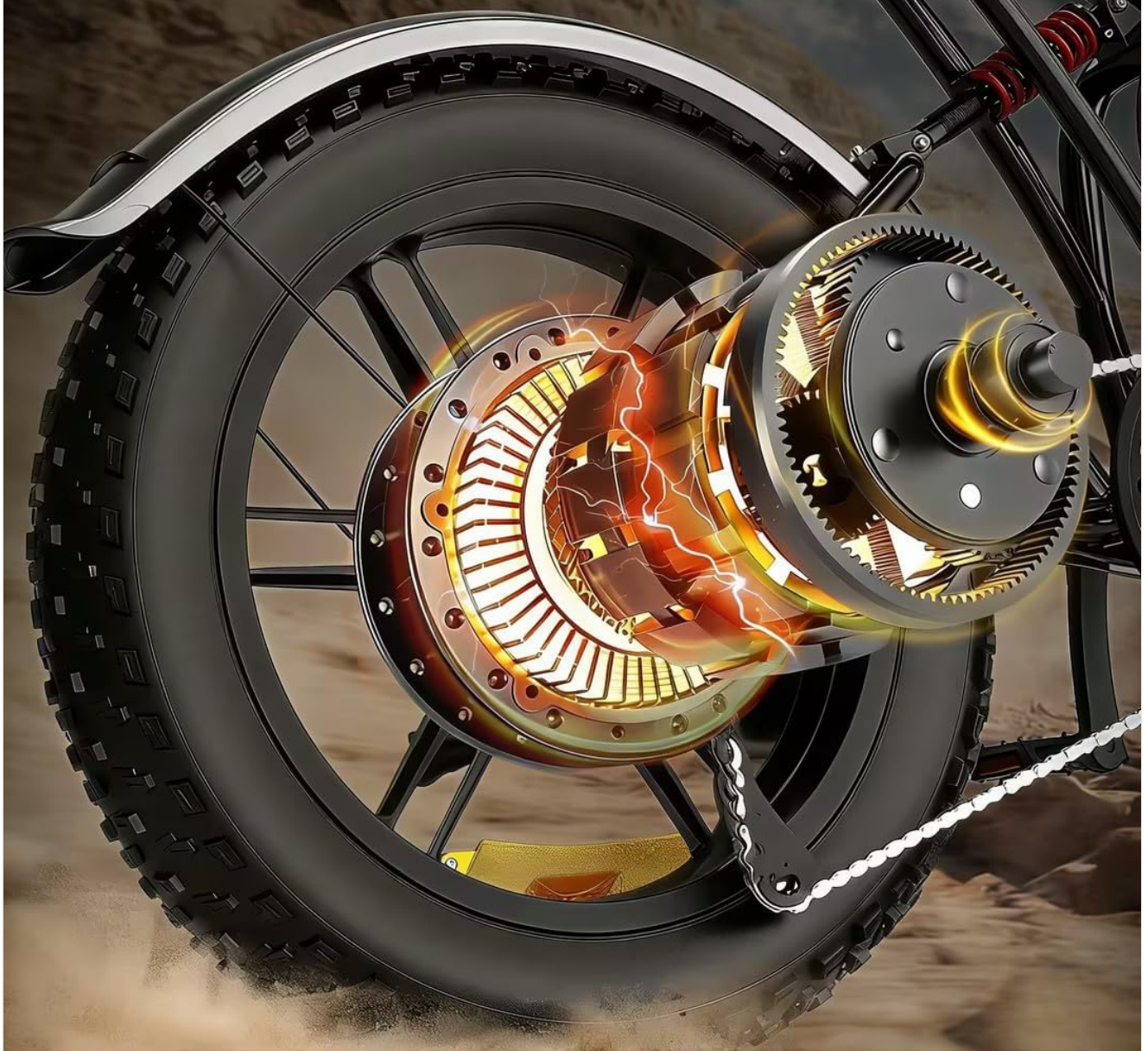
2. Inspect for any shipping damage. Contact customer support immediately if you find any issues.
3. Ensure all included components are present: Electric Bicycle x1, Battery x1, Charger x1, Fenders x2, Installation Kit x1.

3.2 Final Assembly Steps

Refer to the detailed assembly video and user manual for visual guidance.

- **Handlebar Installation:** Attach the handlebar to the stem and tighten securely.
- **Front Wheel Installation:** Install the front wheel, ensuring the disc brake rotor is correctly aligned with the caliper.
- **Pedal Installation:** Attach the pedals, noting that the left and right pedals are marked (L and R). Tighten firmly.
- **Seat Post Adjustment:** Insert the seat post and adjust the seat height for comfortable riding. Ensure the quick release is securely fastened.
- **Fender Installation:** Attach the front and rear fenders using the provided hardware.
- **Battery Installation:** Insert the removable battery into its compartment and lock it securely.

High-Speed Brushless Motor



24.9KM/H
Max speed



48V
Output Voltage



99N.M
Max Torque

Image: The DEEPOWER S20 Electric Bicycle with its main components, ready for final assembly.

3.3 Initial Battery Charge

Fully charge the battery before your first ride. Charging typically takes 5-6 hours.

- Connect the charger to the battery charging port.
- Plug the charger into a standard wall outlet.

- The indicator light on the charger will change (e.g., red to green) when charging is complete.

4. OPERATING INSTRUCTIONS

Understand the different riding modes and controls of your DEEPOWER S20.

4.1 Powering On/Off

- To power on, press and hold the power button on the LCD display.
- To power off, press and hold the power button again.

4.2 Riding Modes

The DEEPOWER S20 offers three riding modes:

- **Pedal Only:** Ride like a traditional bicycle without electric assistance.
- **Pedal Assist Mode:** The motor provides assistance as you pedal. Adjust the assist level using the controls on the handlebar. This mode offers the longest range (up to 110 km).
- **Full Electric Mode:** Use the throttle to propel the bicycle without pedaling. This mode provides a range of up to 55 km.

4.3 LCD Display Functions

The intelligent LCD display provides essential riding information:

Dedicated To Your Safety



Precise distance control



High temperature and impact resistant



Dual-system braking



Image: The LCD display on the DEEPOWER S20, showing current speed, battery charge, and trip distance.

- **Speed:** Current riding speed.
- **Battery Level:** Indicates remaining battery charge.
- **Mileage:** Displays trip distance and total odometer.
- **Assist Level:** Shows the current pedal assist level (if applicable).

- **Error Codes:** Displays diagnostic codes if an issue occurs.

4.4 Gear Shifting

The 7-speed gear system allows you to adapt to different terrains and optimize pedaling efficiency.

- Use the shifter on the right handlebar to change gears.
- Shift to lower gears (1-3) for uphill climbs or starting.
- Shift to higher gears (5-7) for flat terrain or downhill riding.
- Always ease off the pedals slightly when shifting to ensure smooth transitions.



Image: Detail of the 7-speed gear shifter and rear cassette, illustrating the smooth gear transitions.

5. MAINTENANCE AND CARE

Regular maintenance ensures the longevity and safe operation of your DEEPOWER S20.

5.1 General Cleaning

- Clean the bicycle regularly with a damp cloth and mild soap. Avoid high-pressure washing directly on electrical components.
- Dry the bicycle thoroughly after cleaning.

5.2 Battery Care

- Charge the battery regularly, even if not in use, to maintain its health. Avoid fully discharging the battery.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for an extended period, charge the battery to 50-70% capacity every 1-2 months.

20*4.0" Fat Tires for All-Terrain` Riding



Snow
Road



City
Road



Sand
Road



Stone
Road



Image: The removable 48V 20Ah battery of the DEEPOWER S20, highlighting its large capacity and easy access.

5.3 Brake Maintenance

- Regularly check brake pads for wear and replace them when necessary.
- Ensure brake levers are firm and responsive. Adjust cable tension if needed.

5.4 Tire Care

- Maintain correct tire pressure as indicated on the tire sidewall.
- Inspect tires for cuts, punctures, or excessive wear.

Safe Protection Worry Free Riding



Headlight



Warning Light



Turn signal*2



Image: The 20-inch fat tires of the DEEPOWER S20, demonstrating their versatility across different riding surfaces.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your DEEPOWER S20 electric bicycle.

Problem	Possible Cause	Solution
Bicycle does not power on.	Battery not charged, battery not properly seated, loose electrical connection.	Charge the battery, ensure battery is fully inserted and locked, check all visible connections.
Motor not assisting or providing power.	Low battery, assist level set to zero, brake levers engaged, motor connection issue.	Check battery level, increase assist level on display, ensure brake levers are fully released, inspect motor cable connection.
Brakes feel weak or spongy.	Worn brake pads, loose brake cable, air in hydraulic system (if applicable).	Inspect and replace brake pads, adjust brake cable tension, consult a professional for hydraulic brake bleeding.
Gears are not shifting smoothly.	Derailleur out of adjustment, bent hanger, dirty chain.	Clean and lubricate the chain, adjust derailleur limits and cable tension, consult a bike mechanic if issues persist.
Unusual noises during riding.	Loose components, rubbing brakes, worn bearings.	Check all bolts and fasteners, ensure brake calipers are not rubbing, inspect wheels and drivetrain for wear.

If you encounter an issue not listed here or cannot resolve a problem, please contact DEEPOWER customer support.

7. SPECIFICATIONS

Detailed technical specifications for the DEEPOWER S20 Electric Bicycle.

Feature	Detail
Model Number	S20
Dimensions (L x W x H)	195 x 72.01 x 119.99 cm (76.77 x 28.35 x 47.24 inches)
Motor Type	Brushless Hub Motor
Battery	48V 20Ah Removable Lithium-ion (960 Wh)
Max Range (Pedal Assist)	Up to 110 km (68 miles)
Max Range (Full Electric)	Up to 55 km (34 miles)
Max Speed	24.9 km/h (15.5 mph) - <i>Note: Max speed may vary by region due to regulations.</i>
Max Torque	99 N.M
Charging Time	5-6 hours
Wheel Size	20 inches (Fat Tires)
Gear System	7-Speed
Suspension Type	Full Suspension (Hydraulic Rear Shock, Suspension Fork)

Feature	Detail
Brake Type	Mechanical Disc Brakes (Front and Rear)
Water Resistance	IPX4
Recommended Rider Height	5'3" - 6'4" (160 cm - 193 cm)
Max Load Capacity	300 lbs (136 kg)
Bicycle Weight	84 lbs (38 kg)
Included Components	Electric Bicycle x1, Battery x1, Charger x1, Fenders x2, Installation Kit x1



Image: A detailed diagram illustrating the dimensions, recommended rider height, bicycle weight, and load capacity of the DEEPOWER S20.

8. WARRANTY AND SUPPORT

DEEPOWER provides comprehensive support and warranty for your S20 electric bicycle.

8.1 Warranty Information

Your DEEPOWER S20 electric bicycle comes with a **1-year full manufacturer's warranty**. This warranty covers manufacturing defects and ensures peace of mind.

- Keep your original packaging for warranty service.
- The warranty does not cover damage due to misuse, accidents, or unauthorized modifications.

8.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact our support team:

- **Email Support:** Deepowery@outlook.com (Guaranteed response within 24 hours)
- **Online Manual:** For the most up-to-date user manual, scan the QR code below or visit the provided link.



Image: QR code for accessing the S20 user manual and direct email support.

Direct link to manual: [DEEPOWER S20 User Manual PDF](#)

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