

VOLTOGUE VV20-1

VOLTOGUE Electric E-Bike VV20-1 User Manual

Model: VV20-1

1. INTRODUCTION

Thank you for choosing the VOLTOGUE Electric E-Bike VV20-1. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your electric bicycle. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.

2. SAFETY GUIDELINES

Always prioritize safety when operating your e-bike. Failure to follow safety instructions can result in serious injury or damage to the product.

- Always wear a helmet and appropriate safety gear.
- Familiarize yourself with local traffic laws and regulations for electric bicycles.
- Perform a pre-ride inspection before each use, checking brakes, tire pressure, and battery level.
- Do not ride under the influence of alcohol or drugs.
- Ensure all components are securely fastened before riding.
- The recommended age range for riders is 12-60 years.

3. SETUP AND ASSEMBLY

Your VOLTOGUE VV20-1 E-Bike arrives approximately 90% pre-assembled. The remaining assembly steps are straightforward and designed for user convenience. A tool kit is included to assist with the final assembly.

3.1 Unpacking

Carefully remove all components from the packaging. Inspect for any shipping damage. Retain packaging materials for future transport or return if necessary.

3.2 Final Assembly Steps

Typically, final assembly involves attaching the front wheel, handlebars, pedals, and seat. Refer to the included user

manual for detailed, step-by-step instructions specific to your model.



Figure 1: Main view of the VOLTVOGUE VV20-1 Electric E-Bike. The bike features a robust frame, fat tires, and integrated lighting.

4. OPERATING INSTRUCTIONS

This section details the key features and operational aspects of your VOLTVOGUE VV20-1 E-Bike.

4.1 Battery and Charging

The e-bike is equipped with a removable 48V 15.6AH (748Wh) large-capacity lithium-ion battery, providing a range of 25-68 miles per charge depending on riding conditions and assist level. The battery can be charged both indoors and outdoors. A full charge typically takes about 6 hours.



Figure 2: The removable battery being charged. The battery can be easily detached for convenient charging.



Figure 3: Internal view of the 748.8 Wh lithium battery, highlighting its waterproof design and intelligent BMS for safety and performance.

4.2 Motor and Performance

The VV20-1 features a powerful 500W motor with a peak output of 1500W, providing a top speed of 25 MPH and a climbing ability of up to 30 degrees. The motor delivers 80 Nm of torque for strong acceleration and hill climbing.



Figure 4: Illustration of the powerful brushless motor, highlighting its 1500W peak output, 25 MPH max speed, and 30-degree climbing ability.

4.3 Suspension System

The e-bike is equipped with an advanced full suspension system, featuring four shock absorbers (front and rear). This system effectively filters vibrations, providing a comfortable riding experience across various terrains, including urban roads, mountain trails, snowy paths, and beaches.



Figure 5: Close-up view of the front and rear shock absorbers, illustrating the bike's multi-damping system for enhanced comfort and control.

4.4 Gearing and Speed Control

The VV20-1 features a 7-speed gear system with a renowned brand derailleur for smooth and precise speed switching. It offers 5 pedal assist levels, allowing speeds from 6 mph to 25 mph. The speed range for each gear can be customized via the accompanying mobile application.

4.5 Smart Cruise Control

The integrated cruise control function activates after maintaining a steady speed for 8 seconds. This feature allows for comfortable, effortless riding. Any acceleration or braking action will disengage the cruise control.

4.6 LCD Display

A large, smart color LCD display provides clear visibility of all essential riding parameters and functions. This includes current speed, mileage, power source, battery level, operating mode, and startup mode.



Figure 6: Detailed view of the color LCD display, showing various indicators such as mileage, current speed, power remaining, startup mode, cruise status, and riding mode.

4.7 Lighting and Braking

The e-bike is equipped with large LED headlights for a bright and wide field of vision, enhancing night driving safety. It also includes brake lights and turn signals for improved visibility and communication with other road users. Stopping power is provided by reliable disc brakes.



Figure 7: Close-up of the large LED headlights and integrated turn signals, designed for enhanced safety during night riding.

4.8 Riding Modes

The VOLTVOGUE VV20-1 supports multiple riding modes to suit your preference and eliminate range anxiety:

- **Bicycle Mode:** Ride like a traditional bicycle, using pedal power only.
- **Pedal Assist (PAS) Mode:** The motor provides assistance as you pedal, extending your range and reducing effort.
- **Pure Electric Mode:** Use the throttle for motor power without pedaling.

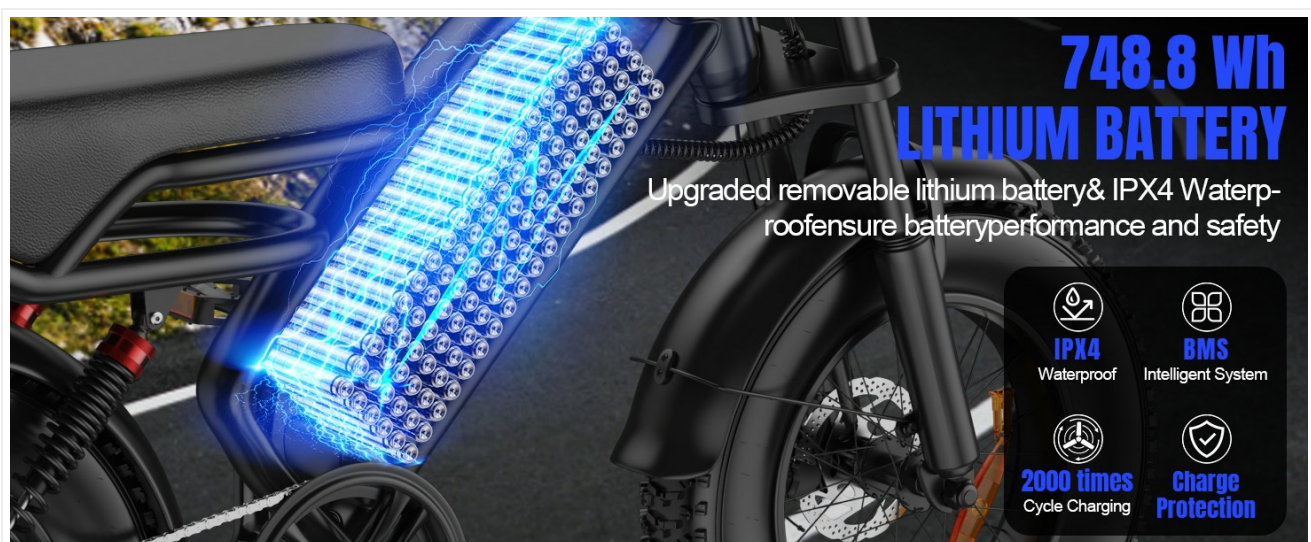


Figure 8: Visual representation of the e-bike operating in Bicycle, Pedal Assist (PAS), and Pure Electric modes across a scenic road.

4.9 All-Terrain Fat Tires

The 20-inch all-terrain fat tires provide excellent grip and stability, making the e-bike suitable for various road conditions, including city streets, mountain trails, sandy paths, and snowy surfaces.

16"x4.0" FAT TIRE Applicable Roads



Figure 9: The 16"x4.0" fat tires are shown with examples of applicable road types: City Road, Mountain Road, Sandy Road, and Snow Road.

4.10 Seating

The e-bike features enlarged and widened seats, including a back seat, offering increased comfort and versatility for carrying goods or an additional passenger.

4.11 Video Overview

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Video 1: An overview demonstrating the vehicle's specifications and excellent suspension system, including details on the 7-speed shifter, removable battery, and anti-slip pedals.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your VOLTVOGUE VV20-1 E-Bike.

- **Battery Care:** Charge the battery regularly, even when not in use, to maintain its health. Avoid fully discharging the battery. Store the battery in a cool, dry place.
- **Tire Pressure:** Check tire pressure before each ride. Maintain recommended pressure for optimal

performance and safety.

- **Brake Inspection:** Regularly inspect brake pads and rotors for wear. Ensure brake levers are responsive and provide adequate stopping power.
- **Chain Lubrication:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent wear.
- **Fastener Checks:** Periodically check all bolts and fasteners for tightness, especially after the first few rides.
- **Cleaning:** Clean your e-bike with a damp cloth. Avoid using high-pressure washers directly on electrical components.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your e-bike. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
E-bike does not power on	Battery not charged or not properly seated; power cable loose	Check battery charge level and connections. Ensure battery is fully inserted.
Motor not assisting	Pedal Assist (PAS) level too low; brake levers engaged; motor connection issue	Increase PAS level. Ensure brake levers are fully released. Check motor cable connections.
Brakes feel weak	Worn brake pads; air in hydraulic system (if applicable); misaligned calipers	Inspect and replace brake pads if worn. Consult a professional for hydraulic brake bleeding or caliper adjustment.
Unusual noises during riding	Loose components; dry chain; rubbing brakes	Check all fasteners. Lubricate chain. Inspect brake calipers for rubbing against rotors.

7. SPECIFICATIONS

Detailed technical specifications for the VOLTVOGUE Electric E-Bike VV20-1.

Feature	Specification
Model Name	VV20
Model Number	VV20-1
Bike Type	Electric Bike
Brand	VOLTVOGUE
Motor	500W (1500W Peak)
Top Speed	25 MPH
Climbing Slope	30 Degrees
Torque	80 Nm
Battery	48V 15.6AH (748 Wh) Removable Lithium-ion

Feature	Specification
Range per Charge	25-68 Miles
Charging Time	Approx. 6 Hours
Number of Speeds	7 (Mechanical Gears) + 5 (Electric Assist Levels)
Wheel Size	20 Inches
Tire Type	All-Terrain Fat Tires
Frame Material	Stainless Steel
Suspension Type	Dual (Front & Rear Shock Absorbers)
Brake Style	Disc
Special Features	Back Seat, Smart Cruise Control, LED Headlights, Color LCD Display
Recommended Age Range	12-60 Years
Included Components	Backseat, Battery, Charger, User Manual, Tool Kit, Lock



Figure 10: Diagram illustrating the key dimensions of the e-bike, including length, height, and handlebar width, along with net weight and maximum load capacity.

8. WARRANTY INFORMATION

The VOLTVOGUE VV20-1 Electric E-Bike comes with a warranty to cover manufacturing defects. A 1-year guarantee is provided for the electric motor, battery, and charger. The overall product warranty is 2 years. Please retain your proof of purchase for warranty claims.

9. CUSTOMER SUPPORT

For any questions, concerns, or assistance regarding your VOLTVOGUE VV20-1 Electric E-Bike, please do not hesitate to contact our customer support team. You can reach out to the seller, LEQUKEJI Direct, for prompt assistance. Please have your model number (VV20-1) and purchase details ready when contacting support.

