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› [SINOHON](#) /

› [SINOHON Electric Bike User Manual - Model ZP248-A20](#)

SINOHON ZP248-A20

SINOHON Electric Bike User Manual

Model: ZP248-A20

1. IMPORTANT SAFETY INFORMATION

Before operating your SINOHON ZP248-A20 Electric Bike, please read this manual thoroughly. Failure to follow these instructions can result in serious injury or property damage. Always prioritize your safety and the safety of others.

- **Helmet Use:** Always wear an approved bicycle helmet that fits properly.
- **Local Regulations:** Familiarize yourself with and obey all local traffic laws and regulations regarding electric bicycles.
- **Pre-Ride Check:** Before each ride, inspect the brakes, tires (pressure and condition), battery charge, and ensure all quick releases and fasteners are secure.
- **Weather Conditions:** Exercise caution when riding in wet conditions, on loose surfaces, or in low visibility.
- **Weight Limit:** Do not exceed the maximum weight recommendation of 250 pounds (113 kg).
- **Age/Height:** This bike is designed for adults with a minimum user height of 5.4 feet (165 cm).
- **Alcohol/Drugs:** Never operate the e-bike under the influence of alcohol or drugs.
- **Maintenance:** Regular maintenance is crucial for safe operation. Refer to the Maintenance section.

2. PACKAGE CONTENTS

Your SINOHON ZP248-A20 Electric Bike package includes the following items:

- SINOHON ZP248-A20 Electric Bike (partially assembled)
- Battery Charger
- User Manual
- Portable Air Pump
- Smartphone Holder
- Rearview Mirrors (pair)
- Front Basket
- Rear Rack
- Assembly Tools (basic wrench set, hex keys)



Image 1: The SINOHON ZP248-A20 Electric Bike shown with all standard included accessories, such as the portable air pump, smartphone holder, rearview mirrors, front basket, and rear rack.

3. ASSEMBLY AND SETUP

The SINOHON ZP248-A20 Electric Bike requires some assembly before its first use. Please follow these steps carefully. It is recommended to have another person assist you during assembly.

1. Unfolding the Frame:

Carefully unfold the main frame of the bicycle. Locate the frame locking mechanism, typically near the center hinge, and secure it firmly until it clicks into place. Ensure the safety latch is engaged.

2. Handlebar Installation/Adjustment:

Insert the handlebar stem into the head tube. Adjust the height to a comfortable riding position and tighten the quick-release lever or bolts securely. Ensure the handlebars are aligned straight with the front wheel.

3. Pedal Attachment:

Identify the left (L) and right (R) pedals. The left pedal has a reverse thread. Apply a small amount of grease to the threads and screw the pedals into the crank arms. Tighten them firmly with a wrench.

4. Front Wheel Installation (if detached):

If the front wheel is detached, align it with the front fork and insert the axle. Secure it using the quick-release skewer or axle nuts, ensuring it is centered and tight.

5. Seat Post and Saddle Adjustment:

Insert the seat post into the frame. Adjust the saddle height for comfortable pedaling, ensuring your leg has a slight bend at the bottom of the pedal stroke. Secure the quick-release lever firmly.

6. Battery Insertion:

Insert the removable battery into its designated compartment, typically within the frame. Ensure it is securely locked in place to prevent dislodgement during riding. Refer to the "Charging the Battery" section before first use.

7. Accessory Installation:

Attach the front basket, rear rack, rearview mirrors, and smartphone holder as desired, following any specific instructions provided with those accessories.

8. Final Inspection:

Double-check all bolts, nuts, and quick releases for tightness. Test the brakes, gear shifting, and tire pressure before your first ride.

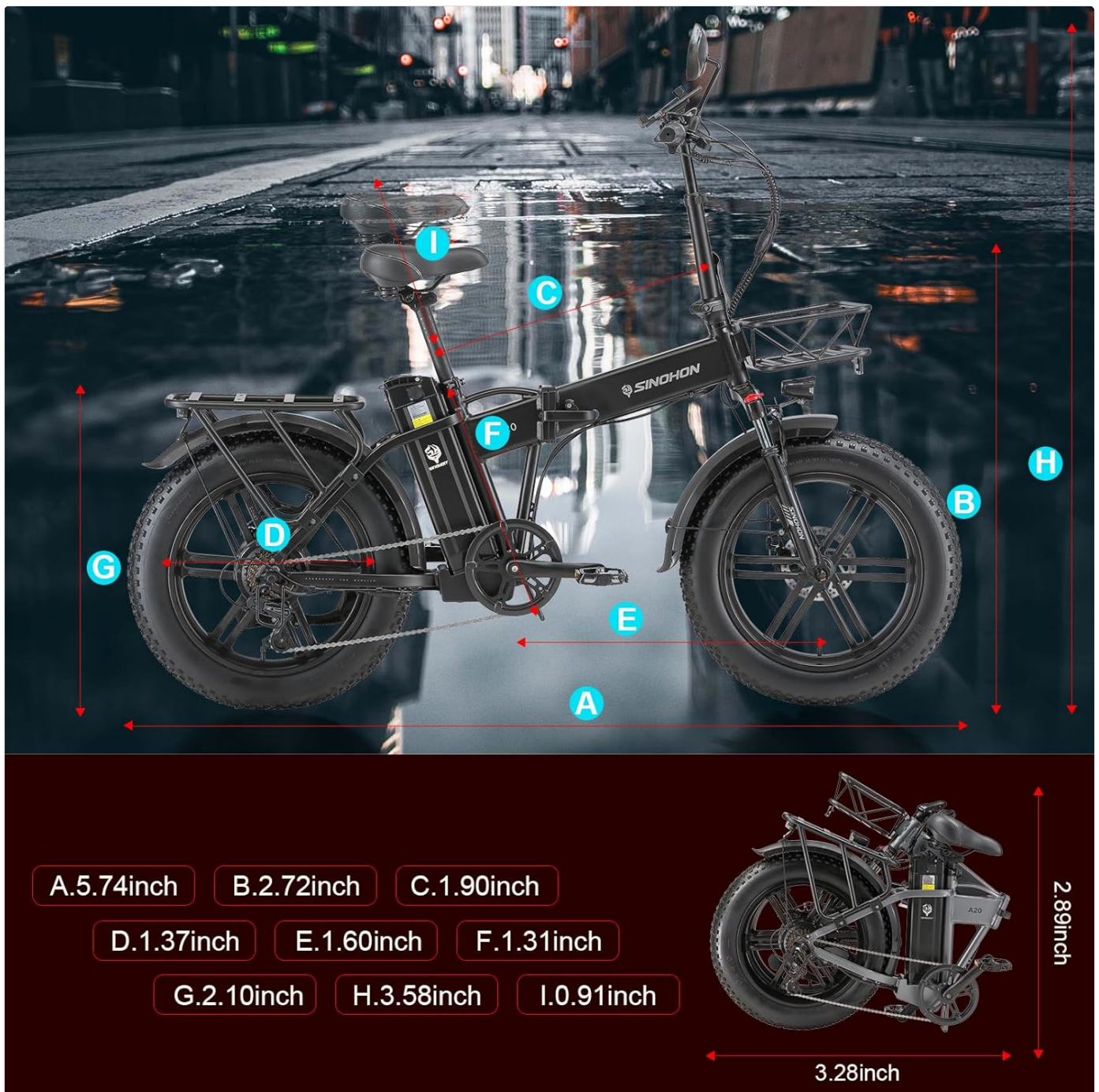


Image 2: The SINOHON ZP248-A20 Electric Bike shown in its folded configuration, highlighting its compact size for storage and transport.

4. COMPONENTS OVERVIEW

Understanding the key components of your SINOHON ZP248-A20 Electric Bike will enhance your riding experience and assist with maintenance.

- **Motor:** Equipped with a 1000W peak brushless motor, providing powerful assistance for various terrains.



Image 3: An internal diagram illustrating the 1000W peak brushless motor, responsible for the bike's electric propulsion.

- **Battery:** A removable 48V 22AH Lithium-ion battery offers a range of 55-70 miles per charge.



Image 4: The removable 48V 22AH lithium-ion battery, integrated into the bike's frame for convenient charging and security.

- **Suspension System:** Features a dual suspension design, including an air suspension front fork with 80mm travel and a rear suspension, to absorb shocks and provide a comfortable ride on varied terrain.

Newly Upgraded Full Suspension



Image 5: A rider on the SINOHON electric bike, illustrating the effectiveness of the dual suspension system on uneven surfaces.

- **Tires:** 20" x 4.0" fat tires provide enhanced grip and stability across various surfaces, including sand, snow, and rough trails.



Image 6: A detailed view of the 20x4.0 inch fat tire, designed for superior traction and stability on diverse terrains.

- **Brakes:** Front and rear mechanical disc brakes ensure reliable stopping power in various conditions.
- **Gears:** A 7-speed Shimano derailleurs system allows for smooth gear changes to adapt to different inclines and speeds.
- **Lighting:** Integrated bright headlight and adjustable rear light for improved visibility and safety during night rides.
- **LCD Display:** An intuitive display provides real-time information.



Image 7: The color smart LCD display, showing current speed, battery charge level, pedal assist level, and trip distance.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- **To Power On:** Press and hold the power button on the LCD display for a few seconds until the screen illuminates.
- **To Power Off:** Press and hold the power button again until the display turns off.

5.2 Riding Modes

Your SINOHON electric bike offers three riding modes:

1. **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. You can adjust the level of assistance (typically 1-5) using the '+' and '-' buttons on the display. Higher levels provide more power.
2. **Electric Mode (Throttle):** Use the thumb throttle to engage the motor without pedaling. This mode provides full electric power up to the maximum speed.
3. **Normal Bicycle Mode:** With the power off or pedal assist/throttle disengaged, the bike functions as a traditional

bicycle, relying solely on pedal power.

5.3 Shifting Gears

Use the thumb shifter on the right handlebar to change between the 7 available gears. Shift to a lower gear for easier pedaling on inclines and a higher gear for faster speeds on flat terrain. Shift gears smoothly and avoid shifting under heavy load.

5.4 LCD Display Functions

The intuitive LCD display provides essential riding information:

- **Speed:** Displays current riding speed.
- **Battery Charge:** Indicates the remaining battery level.
- **Pedal Assist Level:** Shows the current level of motor assistance (PAS 0-5).
- **Travel Distance:** Displays trip distance or total odometer reading.
- **Headlight Indicator:** Shows if the headlight is on.

Consult the full display manual (if provided separately) for advanced settings and customization options.

5.5 Charging the Battery

To charge the 48V 22AH lithium-ion battery:

1. Ensure the bike is powered off.
2. Locate the charging port on the battery or frame. The battery can be charged while installed on the bike or removed for convenience.
3. Connect the charger to the charging port, then plug the charger into a standard wall outlet.
4. The charger indicator light will typically show red during charging and turn green when fully charged.
5. Charging time is approximately 8-10 hours for a full charge.
6. Once fully charged, disconnect the charger from the outlet first, then from the battery.
7. Avoid overcharging the battery.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your SINOHON Electric Bike.

- **Tire Pressure:** Check tire pressure before each ride. Maintain pressure within the recommended range (typically indicated on the tire sidewall) for optimal performance and safety.
- **Brake Inspection:** Regularly check brake levers for proper tension and ensure brake pads are not excessively worn. Adjust or replace as needed.
- **Chain Lubrication:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent wear.
- **Fastener Checks:** Periodically inspect all bolts, nuts, and quick releases to ensure they are tight and secure.
- **Battery Care:**
 - Store the battery in a cool, dry place when not in use.
 - Avoid fully discharging the battery frequently.
 - If storing for an extended period, charge the battery to 50-70% every 1-2 months.
 - Protect the battery from extreme temperatures.

- **Cleaning:** Clean the bike with a damp cloth. Avoid using high-pressure water jets directly on electrical components.
- **Professional Service:** For complex repairs or adjustments, it is recommended to consult a qualified bicycle mechanic.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your SINOHON Electric Bike.

Problem	Possible Cause	Solution
Bike does not power on.	Battery is not charged or not properly seated.	Ensure battery is fully charged and securely inserted. Check battery connection.
Motor not assisting.	Pedal assist level is set to 0, or throttle is not engaged. Brake levers are engaged.	Increase PAS level. Ensure throttle is pressed. Check that brake levers are fully released (some e-bikes have cut-off switches on brakes).
Short battery range.	Low tire pressure, riding in high assist levels, frequent stops/starts, cold weather.	Check tire pressure. Use lower assist levels. Ride smoothly. Charge battery fully.
Brakes feel weak.	Worn brake pads, loose brake cable, air in hydraulic system (if applicable).	Inspect brake pads and replace if worn. Adjust brake cable tension. If issue persists, seek professional service.
Gears are not shifting smoothly.	Derailleur out of adjustment, dirty/dry chain, bent hanger.	Clean and lubricate the chain. Adjust derailleur. If necessary, consult a bike mechanic.

8. SPECIFICATIONS

Detailed technical specifications for the SINOHON ZP248-A20 Electric Bike:

Feature	Detail
Model Name	ZP248-A20
Bike Type	Electric Bike
Age Range	Adult
Motor	1000W Peak Brushless Motor
Max Speed	30 MPH (48 km/h)
Battery	48V 22AH Removable Lithium-ion
Range per Charge	55-70 miles (88-112 km)
Charging Time	8-10 hours

Feature	Detail
Suspension Type	Dual (Front Air Suspension, Rear Suspension)
Tires	20 x 4.0 Inches Fat Tire
Brake Style	Front and Rear Mechanical Disc Brake
Number of Speeds	7-Speed Shimano Derailleur
Frame Material	Aluminum Alloy
Folded Size	34.64" x 16" x 39.37" (88 x 40.6 x 100 cm)
Item Weight	89.24 lbs (40.48 kg)
Maximum Weight Recommendation	250 lbs (113 kg)
Minimum User Height	5.4 Feet (165 cm)
Included Components	Ebike, Charger, Pump, Phone Holder, Mirrors, Front Basket, Rear Rack

9. WARRANTY AND SUPPORT

SINOHON provides a limited warranty for its products. For the ZP248-A20 Electric Bike, the main components are covered by a 6-12 month warranty from the date of purchase.

This warranty typically covers manufacturing defects in materials and workmanship. It does not cover normal wear and tear, damage from misuse, accidents, improper assembly, or lack of maintenance.

For warranty claims, technical support, or inquiries, please contact SINOHON customer service through your original point of purchase or refer to the contact information provided in your product packaging.

Please retain your proof of purchase for warranty validation.