

User Manual

DERBAL[®] ebike

Fat tire E-trike



Age 14+

Support

**If you are having problems with your product, please contact
(DERBAL) Customer Support before contacting your retailer.
(159) 18341679 • derbal@derbaltech.com**

Limited Warranty Statement

Derbal ebike provides warranty against defects in workmanship and materials for a 1 year period from the original purchase date. Derbal ebike requires valid documented Proof of Purchase (receipt from retailer) in order to obtain warranty services. If this product fails during the 1 year limited warranty period, Derbal ebike reserves the right to repair or replace any parts or products that are determined to be defective due to workmanship or material. Any replacement or repair done by Derbal ebike services, will not restart your 1 year limited warranty. Your device is only covered under the original warranty period. This warranty is only offered to the original purchaser of the product and is not transferable to anyone else.

Derbal ebike Limited Warranty does not cover damages caused by user operation, cleaning and maintenance of product, incorrect installation, any accidents or damages from extreme temperatures and/or improper use or handling. Derbal ebike's limited warranty does not cover the products from software issues or normal wear and tear of the product, nor does it cover any problem that is caused by conditions, malfunctions, or damage not resulting from defects in material or workmanship. These conditions may include, but are not limited to, road hazards, accidents, and improper operation or maintenance. Derbal ebike reserves the right to not provide service for products whose serial numbers have been altered, defaced and/or removed as well as products whose housing have been opened. In no event shall Derbal ebike be liable for any incidental, indirect, or consequential damages or liabilities (including but not limited to, incidental or consequential damages for loss of time, inconvenience, loss of use of product, or any other consequential or incidental loss) in connection with the purchase, use, or operation of Derbal ebike products. Derbal ebike is not liable for property damage, personal injury, or death.

Please contact Derbal ebike using the phone number above for specific instructions on obtaining warranty services.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

BEFORE YOU RIDE

ABOUT THIS MANUAL

It is important for you to understand your new e-bicycle. By reading this manual before you go out on your first ride, you'll know how to get better performance, comfort, and enjoyment from your new e-bicycle. It is also important that your first ride on your new bicycle is taken in a controlled environment, away from cars, obstacles, and other cyclists.

GENERAL WARNING

Bicycling can be a hazardous activity even under the best of circumstances. Proper maintenance of your bicycle is your responsibility as it helps reduce the risk of injury. This manual contains many "Warnings" and "Cautions" concerning the consequences of failure to maintain or inspect your bicycle.

Many of the warnings and cautions say "you may lose control and fall." Because any fall can result in serious injury or even death, we do not repeat the warning of possible injury or death where ever the risk of falling is mentioned.

A SPECIAL NOTE FOR PARENTS

It is a tragic fact that most bicycle accidents involve children. As a parent or guardian, you bear the responsibility for the activities and safety of your minor child. Among these responsibilities are to make sure that the bicycle which your child is riding is properly fitted to the child; that it is in good repair and safe operating condition; that you and your child have learned, understand and obey not only the applicable local motor vehicle, bicycle, and traffic laws, but also the commonsense rules of safe and responsible bicycling. As a parent, you should read this manual before letting your child ride the bicycle. Please make sure that your child always wears an ANSI, ASTM, SNELL approved bicycle helmet when riding.

CORRECT FRAME SIZE

When selecting a new bicycle, the correct choice of frame size is a very important safety consideration. Most full sized bicycles come in a range of frame sizes. These sizes usually refer to the distance between the center of the bottom bracket and the top of the frame seat tube. Please note that regardless of frame size, all E-bikes have a weight limit of 150 kgs including rider and luggage.

For safe and comfortable riding there should be clearance of no less than 1 - 2 inches between the groin area of the intended rider and the top tube of the bicycle frame, while the rider straddles the bicycle with both feet flat on the ground. The ideal clearance will vary between types of bicycles and rider preference. This makes straddling the frame when on the seat easier and safer in situations such as sudden traffic stops. Women can use a men's style bicycle to determine the correct size women's model.

City Cruiser E-Bike

Before Use:

This product needs to be assembled. Please read these instructions carefully and fully. Once assembled, this product must be checked and adjusted before use.

- Do **NOT** use before assembly and final adjustments.
- Brakes, handles, seats, wheels and tire pressure need to be inspected prior to each ride.
- Any and all accessories **MUST** be properly installed and verified will not interfere with use of product.
- Do **NOT** modify unit in anyway.
- Screws on e-bike should be checked regularly and if needed tightened.
- Lack of thorough inspection may result in faults with unit and/or lead to serious bodily injury / death.
- Do **NOT** clean with high pressure washer as it may damage paint and may cause rust.
- Do **NOT** park e-bike in unsafe area or without a locking mechanism.
- Do **NOT** use product after consuming alcohol, drugs, medication, and/or in physical discomfort.
- Do **NOT** hang luggage on unit.
- Do **NOT** operate unit with a pet leash attached to your arm.
- Do **NOT** ride barefoot or ride with footwear with slippery soles.
- Only 1 person may ride e-bike at a time. Do **NOT** modify to allow for more than 1 person at a time.
- No single hand riding. Both hands **MUST** be used at all times.
- Do **NOT** ride fast on downhill and/or slippery road surfaces.
- Do **NOT** ride on uneven surfaces.
- Do **NOT** wear clothing that may interfere with use of product.
- Please ride with comity.
- Do **NOT** ride when visibility is poor or when roadway is in slippery conditions (i.e. snow, ice, rain) Please dismount e-bike and walk.
- Do **NOT** ride side-by-side with other bicycles.
- Beware of your environment at all times.
- When braking at high rate of speed, make sure to use your back brake first and then your front brake. Failure to do so can cause a fall with serious consequences.
- Replace parts with only authentic replacements only.



Maintenance

- Please clean with a dry towel after each use.
- If e-bike was caught in the rain, wipe with dry towel and chain may need to be oiled.
- Do NOT place the product in high temperature or high humidity storage as this may cause rust and accessory deformation.
- Direct sunlight may cause damage to paintwork.
- Do NOT grease the seat or brakes, etc.
- Tires need to avoid oil and grease.
- Replace tire, brake pads, and other items that may wear down over time. Make sure to properly inspect these items prior to each use.

Charge Bar

When fully charged, excluding the left LED light, all others are on. As power drains, the lights will turn off. When the power runs out, the LED lights will be off completely. These e-bikes will start the motor when it feels the pedal's condition. So you should raise the derailleur on the 1 to 2 speed stall when you climb. What's more, you must use the derailleur when you ride the e-bike and you can't change it when it stops.

***Variable speed adjustments:**

- 4 to 5 speed stall when on a flat roadway
- 3 speed stall when on a gentle slope
- 1 to 2 speed stall when on a steep slope

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About City Cruiser E-Bike

1. Handle Bar
2. Brake
3. Light Switch
4. Battery Indicator
5. Front Wheel
6. Seat
7. Seat Adjuster
8. Pedal
9. Front Light
10. Power Switch
11. Charging Port
12. Battery
13. Chain
14. Controller
15. Basket
16. Rear Wheel
17. Deraillieur gear
18. Assist Power Sensor
19. Motor



Unit also comes with Instruction Manual, Repair Tools, and Charger



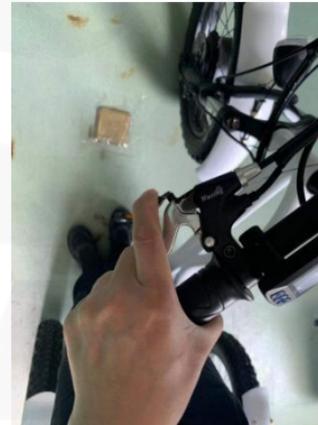
Increase power assist from 1 to 1.2/1.4/1.6/1.8
Press 5 seconds to turn on the front/rear light

Press 5 seconds to turn on/off the bicycle

Decrease power assist from 1.8 to 1.6/1.4/1.2/1



Hold the brake and
press the black
component to keep
the tricycle still.





Rotate a single circle



Pull out



Assembly

The e-bike comes partially assembled already but some parts need to be installed.

Handle bar

1. Insert the handlebar.



2. Adjust the height.



3. Insert the socket head wrench.



4. Rotate the socket head wrench.



5. Adjust the tilt of the handlebar to a comfortable position ranging from 40° to -10° , then tighten with socket head wrench.



Pedals

Locate the pedals and identify which one is the "L" vs "R". To do so the markings are on the screw end of the pedals.

1. Insert the pedals onto the appropriate side of the frame.
 - a. Pedals must be secured with the wrench provided



Seat

1. Adjust seat accordingly and tighten lever to secure.



Note: If insert is not smooth, make sure the left and right pedals are in the correct position. Do NOT insert with brute force. This will lead to a potential unsteady state and can be very dangerous. Installing pedals incorrectly is not covered under the warranty, and any damage will be the sole responsibility of the assembler.

2. Insert the seat and adjust the height. Lock with the lever when done.
 - a. Note: Seat has a line on the bottom shaft to indicate threshold. Please insert the seat so that you can NOT see the line. Incomplete insertion might cause seat to detach.
3. Using tool provided, tighten it counter-clockwise.
 - a. Note: Make sure seat is stable after locking.



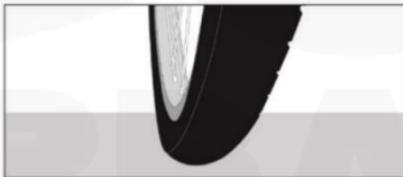
To determine the correct height for bicycle. Straddle bike, keeping feet shoulder width apart and flat on the ground. There should be a 1 - 2 inch clearance between the rider's crotch and the frame of the bike.



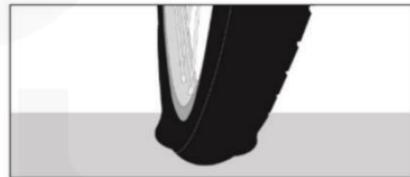
Tire Pressure

Confirm the pressure needed on the tire is filled correctly, utilizing a tire pressure gauge (not included). Pressure needed will be recorded on the side of the actual tire.

Note: Special care should be taken with the inflation of the tire. Improper inflation may result in deterioration of the tire. Especially the rear wheel should be looked at when a large load is on unit.

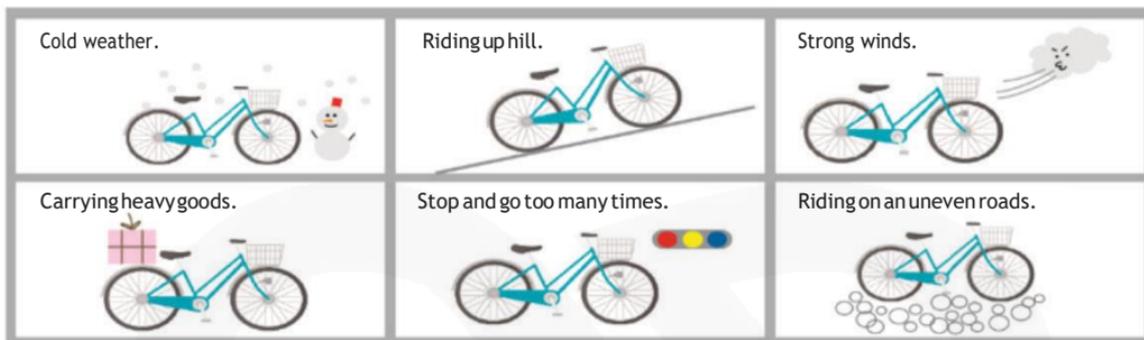


Full Pressure



Low Pressure

Influencing factors of pressure



Power Related

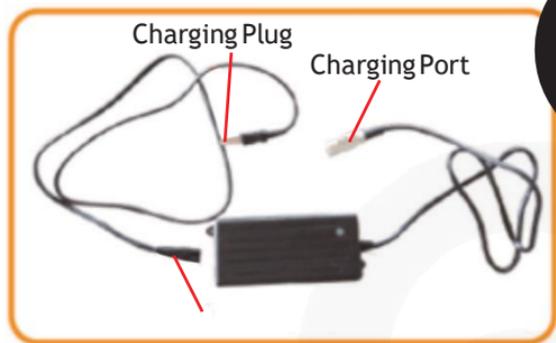
When the switch is in the “ON” position, power is on and the power indicator lights will be lit. Please confirm the amount of power. If you see a reduced power (meaning power lights are unlit) please charge battery. When the switch is in the “OFF” position, power will be turned out.

*Notes about the battery:

1. The battery is heavy. Be very careful while handling.
2. Once charging is complete, you **MUST** remove from charging unit as soon as possible.
3. Do **NOT** operate unit while battery is in a low power state.
4. Only use charging cable supplied with unit or from manufacturer. Overheating, damage, and/or fire may be caused.
5. Charge in a safe, dry, and well ventilated place. Pay very close attention if you charge outdoors.
6. If battery is not charging, this may be due to a safety feature. Each unit has a fuse which may need to be replaced. Fuses may be the cause of excessive power failures, please contact Xufeng ebike support

Charging Battery

Name of parts:



Do not
charge
overnight
or leave
unattended.



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Charging Connection

1. Insert the charging connector lug into charger.
2. Insert the charging port into the battery.
3. Make sure the cable is aligned correctly. (do NOT force)
4. Plug charging plug into wall outlet (100V-240V; 50,60Hz).
5. While charging, the charge will show a “red” indicator light.
6. When battery is fully charged, indicator light will turn “green”. Charging time can take approximately 6-8 hours.
7. Please keep charging environment clean and dry.
8. If the charging port is damp, do not charge.
9. Do not charge overnight or leave unattended.
10. Disconnect when fully charged.
11. Battery types might vary but the principle is the same.

3



4

Make sure to plug in.



5



6



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The following chart and diagram will help you make the correct choice. Rider leg length refers to approximate pant inseam.

Frame Sizing Guide

Approximate Rider Leg Length	Suggested Frame Size for Racing/Touring Bicycle	Suggested Frame Size for Mountain, Hybrid, Comfort or Cruiser Bicycle
61-69cm / 24-27 inches	-	37cm / 14.5 inches
66-76cm / 26-30 inches	-	43cm / 17 inches
71-79cm / 28-31 inches	50cm / 19.5 inches	45cm / 18 inches
76-84cm / 30-33 inches	55cm / 21.5 inches	50cm / 19.5 inches
79-86cm / 31-34 inches	57cm / 22.5 inches	52cm / 20.5 inches
81-89cm / 32-35 inches	60cm / 23.5 inches	53-56cm / 21-22 inches
86-94cm / 34-37 inches	63cm / 25 inches	58-60cm / 23-23.5 inches



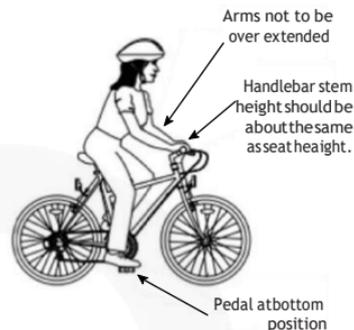
Seat Height

In order to obtain the most comfortable riding position and the best possible pedaling efficiency, the seat height should be set correctly in relation to the rider's leg length. The correct saddle height should not allow leg strain from over-extension, and the hips should not rock from side to side when pedaling. While sitting on the bicycle with one pedal at its lowest point, place the ball of your foot on that pedal. The correct saddle height will allow the knee to be slightly bent in this position. If the rider then places the heel of that foot on the pedal, the leg should be almost straight.

Reach

To obtain maximum comfort, the rider should not overextend his or her reach when riding. To adjust this distance, the position of the seat can be altered in relation to the seat post.

RIDING POSITION



SAFETY CHECKLIST

Before every ride, it is important to carry out the following safety checks:

1. Brakes

- Ensure front and rear brakes work properly.
- Ensure brake shoe pads are not over worn and are correctly positioned in relation to the rims.
- Ensure brake control cables are lubricated, correctly adjusted and display no obvious wear.
- Ensure brake control levers are lubricated and tightly secured to the handlebar.

2. Wheels and Tires

- Ensure tires are inflated to within the recommended limit as displayed on the tire sidewall. • Ensure tires have tread and have no bulges or excessive wear.

- Ensure all wheel spokes are tight and not broken.
- Check that axle nuts are tight.

3. Steering

- Ensure handlebar and stem are correctly adjusted and tightened, and allow proper steering.
- Ensure that the handlebars are set correctly in relation to the forks and the direction of travel.
- Check that the headset locking mechanism is properly adjusted and tightened.
- If the bicycle is fitted with handlebar end extensions, ensure they are properly positioned and tightened.

4. Chain

- Ensure chain is oiled, clean and runs smoothly.
- Extra care is required in wet or dusty conditions.

5. Bearings

- Ensure all bearings are lubricated, run freely and display no excess movement, grinding or rattling.
- Check headset, wheel bearings, pedal bearings and bottom bracket bearings.

6. Cranks and Pedals

- Ensure pedals are securely tightened to the cranks.
- Ensure cranks are securely tightened to the axle and are not bent.

7. Derailleurs

- Check that front and rear mechanisms are adjusted and function properly.
- Ensure shift and brake levers are attached to the handlebar, shift and brake.
- Ensure derailleurs, shift levers and shift and brake cables are properly lubricated.

8. Frame and Fork

- Check that the frame and fork are not bent or broken.
- If either are bent or broken, they should be replaced.

9. Accessories

- Ensure that all reflectors are properly fitted and not obscured.
- Ensure all other fittings on the bike are properly and securely fastened, and functioning.
- Ensure the rider is wearing a helmet.

10. Motor Drive Assembly and Throttle

- Ensure all motor drive components are correctly mounted and functioning properly.

11. Battery Pack

- Ensure the batteries are in good operation condition and kept fully charged.

Helmets

It is strongly advised that a properly fitting, ANSI or SNELL approved, bicycle safety helmet be worn at all times when riding your bicycle.



Always wear a properly fitted helmet which covers the forehead when riding a bicycle. Many states require specific safety devices. It is your responsibility to familiarize yourself with the laws of the state where you ride and to comply with all applicable laws, including properly equipping yourself and your bike as the law requires. Reflectors are important safety devices which are designed as an integral part of your bicycle. Federal regulations require every bicycle to be equipped with front, rear, wheel, and pedal reflectors. These reflectors are designed to pick up and reflect street lights and car lights in a way that helps you to be seen and recognized as a moving bicyclist. Check reflectors and their mounting brackets regularly to make sure they are clean, straight, unbroken and securely mounted. Replace damaged reflectors and straighten or tighten any that are bent or loose.

The correct helmet should:

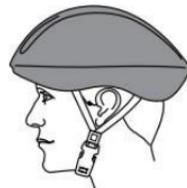
- be comfortable
- be lightweight
- have good ventilation
- fit correctly
- cover forehead

- **ALWAYS WEAR A PROPERLY FITTED HELMET WHEN YOU RIDE YOUR BICYCLE.**
- **DO NOT RIDE AT NIGHT.**
- **CPSC RECORDS SHOW THAT ABOUT 35% OF BICYCLE RELATED DEATHS OCCUR AFTER DARK.**
- **AVOID RIDING IN WET CONDITIONS.**
- **CPSC RECORDS SHOW THAT ABOUT 65% OF INJURIES HAPPEN TO CHILDREN UNDER 15 YEARS OF AGE.**
- **RIDE ONLY WITH ADULT SUPERVISION**

**HELMETS
SAVE
LIVES!!!**

CORRECT FITTING

- MAKE SURE YOUR HELMET COVERS YOUR FOREHEAD.



INCORRECT FITTING

- FOREHEAD IS EXPOSED AND VULNERABLE TO SERIOUS INJURY.



RIDING SAFELY

General Rules

- When riding obey the same road laws as all other road vehicles, including giving way to pedestrians, and stopping at red lights and stop signs.
- For further information, contact the Road Traffic Authority, police department or Department of Motor Vehicles in your State.
- Ride predictably and in a straight line.
- Never ride against traffic.
- Use correct hand signals to indicate turning or stopping.
- Ride defensively. To other road users, you may be hard to see.
- Concentrate on the path ahead. Avoid pot holes, gravel, wet road markings, oil, curbs, speed bumps, drain grates and other obstacles.
- Walk your bicycle across train tracks.
- Expect the unexpected such as opening car doors or cars backing out of concealed driveways.
- Be extra careful at intersections and when preparing to pass other vehicles.
- Familiarize yourself with all the bicycle's features.
- If you are wearing loose pants, use leg clips or elastic bands to prevent them from being caught in the chain or gears.
- Wear proper riding attire and avoid wearing open toe shoes or any foot ware with a slippery sole.
- Don't carry packages or passengers.
- Don't use items that may restrict your hearing.
- Do not lock up the brakes. When braking, always apply the rear brake first, then the front. The front brake is more powerful and if it is not correctly applied, you may lose control and fall.
- Maintain a comfortable stopping distance from all other riders, vehicles and objects. Safe braking distances and forces are subject to the prevailing weather conditions.
- Use designated bicycle paths if possible. This bicycle is designed for on-road use only. It is not intended to be used for stunt riding, jumping, carrying passengers, or riding off-road. If used incorrectly, the rider risks damage to components, injury, or death.

Wet Weather

IT IS RECOMMENDED TO NOT RIDE IN WET WEATHER

This e-bicycle is not meant for use in the water (damp roads, puddles, rain, streams, etc.). Never immerse this product in water as the electrical system may be damaged. Although the electrical components are water resistant and there is little risk of electric shock from wet weather, you should exercise caution and strongly consider not riding in such conditions, especially heavy rain.

- In wet weather you need to take extra care.
- Brake earlier, stopping distance is up to 6 times longer.
- Decrease your riding speed, avoid sudden braking and take corners with additional caution.
- Be more visible on the road.
- Wear reflective clothing and use safety lights.
- Potholes and slippery surfaces such as line markings and train tracks all become more hazardous and more difficult to see when wet.

Night Riding

IT IS RECOMMENDED TO NOT RIDE AT NIGHT

- Ride at night only if necessary. Slow down and use familiar roads with street lighting, if possible.
- Ensure bicycle is equipped with a full set of correctly positioned and clean reflectors.
- Use a properly functioning lighting set comprising of a white front lamp and a red rear lamp.
- If using battery powered lights, make sure batteries are well charged.
- Some rear lights available have a flashing mechanism which enhances visibility.
- Wear reflective and light colored clothing.

Pedaling Technique

- Position the ball of your foot on the center of the pedal.
- When pedaling, ensure your knees are parallel to the bicycle frame.
- To absorb shock, keep your elbows slightly bent.

Hill Technique

- Gear down before a climb and continue gearing down as required to maintain pedaling speed.
- If you reach the lowest gear and are struggling, stand up on your pedals. You will then obtain more power from each pedal revolution.
- On the descent, use the high gears to avoid rapid pedaling.
- Do not exceed a comfortable speed; maintain control and take additional care.

Cornering Technique

- Brakeslightlybefore cornering and prepare to lean your body into the corner. Maintain the inside pedal at the 12 o'clock position and slightly point the inside knee in the direction you are turning. Keep the other leg straight, don't pedal through fast or tight corners. While going through the turn, keep your eyes parallel to the horizon and look as far ahead of you as possible.

Rules for Children

Derbal ebike products are designed for riders age 14 or older. To avoid accidents, teach children good riding skills with an emphasis on safety from an early age. Children should always be supervised by an adult.

1. Always wear a properly fitted helmet.
2. Do not play in driveways or the road.
3. Do not ride on busy streets.
4. Do not ride at night.
5. Obey all the traffic laws, especially stop signs and red lights.
6. Be aware of other road vehicles behind and nearby.
7. Before entering a street: Stop, look right, left, and right again for traffic. If there's no traffic, proceed into the roadway.
8. If riding downhill, be extra careful. Slow down using the brakes and maintain control of the steering.
9. Never take your hands off the handlebars, or your feet off the pedals when riding downhill.

Storage

Keep your bicycle in a dry location away from the weather and the sun. Direct sunlight may cause paint to fade or rubber and plastic parts to crack. Before storing your bicycle for a long period of time, clean and lubricate all components and wax the frame. Deflate the tires to half pressure and hang the bicycle on the ground. Charge your batteries and make sure they are protected from water. Batteries should be charged every 30 (Lithium Ion) days to avoid capacity loss. Don't cover the bicycle with plastic as "sweating" will result which may cause rusting. Please notice that your bicycle warranty does not cover paint damage, rust, corrosion, dry rot (mold) or theft.

Security

It is advisable that the following steps be taken to prepare for and help prevent possible theft.

1. Maintain a record of the bicycle's Proof of Purchase (receipt from the retailer)
2. Invest in a high quality bicycle lock that will resist hack saws and bolt cutters. Always lock your bicycle to an immovable object if it is left unattended.

Bicycle Specifications:

Package Size: 1640 x 730x 780 mm

Wheelbase: 20X4 inch

Seat Height: 33.85

Weight: 58kgs

Max Load: 150kgs

Speed Range: <45km/h

Running Range: > 50km

Climbing angle: >8°

Brake Performance: Dry Conditions < 13 feet, Wet Conditions: < 49 feet

Battery Type: Lithium

Capacity: 48v 20Ah

Motor Current Limiting Protection: $\geq 42A \pm 1A$

Low Power Protection: 38V $\pm 1V$

Input Voltage: AC 100V ~240V 50~60HZ

Output Voltage: <52v

Charging Time: 6-8 hours

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