



Table of Contents

1) Safety.....	02
2) Specifications	09
3) Overview of Motorcycle.....	10
4) Controls & Indicators	11
5) Operation.....	13
6) Maintenance & Maintenance Scheduling	20
7) Troubleshooting	21

Safety

Before operating your new motorcycle it is your responsibility to read and follow the operating and maintenance instructions in this manual, and to follow these basic rules for your personal safety.

CAUTION

Before starting to ride. check the battery strength, the brakes are working, that all lights are functioning and both tires are correctly inflated.

CAUTION

Before stating to ride you must check all country, state and local laws regarding the use of these vehicles on public roadways. Where necessary, register and license you r motorcycle required by law.

⚠ WARNING

Ride safely, defensively and within the limits of the law. Ride with your headlamp on : always wear a helmet, proper eye wear and protective clothing and insist that your passenger does too. Never ride under the influence of alcohol and drugs.

⚠ WARNING

Your motorcycle is designed for a maximum speed. It should be used on roads consistent with travel at that speed and in accordance with posted speed limits, both minimum and maximum.

⚠ WARNING

As your motorcycle is an electric vehicle, it makes very little noise in operation. While driving your motorcycle you must be aware that pedestrians and those in other vehicles may not hear you approaching. Failure to sound your horn and drive defensively could result serious injury or even death.

⚠ WARNING

Recharge your motorcycle in a ventilated environment. Do not recharge in a place where there is corrosive or flammable air.

CAUTION

Your motorcycle components are sealed to prevent moisture affecting the performance. When cleaning your motorcycle, wash with care and do not saturate components with water.

CAUTION

When carrying passengers, it is your responsibility to instruct them on proper riding procedures.

⚠ WARNING

We caution you against the use of non-standard parts or custom made parts, which may adversely affect performance and handling. Removing or altering factory installed standard parts or altering the original configuration of you motorcycle may also affect performance and could result serious injury or even death.

⚠ WARNING

Your motorcycle is equipped with a side kickstand and a center kickstand that bot h lock into position when placed in the full forward position and the motorcycle weight is rested on it .Without the motorcycle weight resting on the stand or if the stand is not locked, the motorcycle may fall over.

⚠ WARNING

Be sure both kickstands are fully retracted before riding the motorcycle. If they are not fully retracted they could come into contact with the road surface and cause a momentary disturbance before retracting. This disturbance could result in loss of vehicle control and serious injury or even death.

⚠ WARNING

Avoid excessive speed and never travel at a speed faster than the posted speed limit. To do so, could cause loss of control resulting serious injury or even death.

⚠ WARNING

All listed services and maintenance recommendations should be performed. Lack of regular maintenance at suggested intervals, may affect the safe operation of your motorcycle and could result serious injury or even death.

⚠ WARNING

Use of any non-standard or non-approved parts may void your warranty.

⚠ WARNING

Do not tow an immobilized motorcycle with another vehicle at the same time. Steering and handling of the disabled motorcycle will be affected by the towline, causing loss of control and could result serious injury or even death. Transport the immobilized motorcycle in a truck or a trailer.

⚠ WARNING

Do not operate your motorcycle with a loose, worn or damaged steering system, including front and rear suspension system. Contact your dealer for repairs. Failure to do so will adversely affect handling and could result serious injury or even death.

CAUTION

Maintain proper tire pressure and ensure that the wheels and tires are correctly balanced. Inspect your tires for tread wear and replace with approved tires only. Failure to do so can lead to improper balance.

⚠ WARNING

Do not pull a trailer behind a motorcycle. Towing a trailer may cause overload, unstable handling and reduced braking efficiency that could result serious injury or even death.

⚠ WARNING

Keep hazardous substances such as any fluid used in the operation and maintenance of your motorcycle. Batteries and cleaning compounds away from eyes, mouth or skin. These items must also be kept out of children's reach. Failure to do so could result serious injury or even death.

⚠ WARNING

Consult your dealer regarding any questions or problems that occur during the operation of your motorcycle. Failure to do so may aggravate the initial problem causing costly repairs and jeopardizing your safety.

⚠ WARNING

The factory cannot test and make specific recommendations concerning every accessory or combination of accessories sold. The rider must be responsible for the same operation of the motorcycle when installing accessories or carrying additional weight.

- a. Do not load weight or install accessories improperly on the motorcycle.*
- b. Keep cargo weight concentrated close to the motorcycle and as possible to minimize changes to the motorcycle's center of gravity.*
- c. Distribute weight evenly on both sides of the motorcycle.*
- d. Do not load bulky items too far behind the rider.*
- e. Do not add weight or hand items on the handlebars or front forks.*
- f. Luggage racks are designed for light weight items do not overload racks.*
- g. Be sure cargo is secure and will not shift while riding. Check the cargo periodically.*

Failure to follow these recommendations may affect the motorcycle's stability, handling characteristics and safe operating speed and could result serious injury or even death.

⚠ WARNING

Front or rear guards may provide limited leg and cosmetic vehicle protection under unique circumstances such as falling over whilst stopped. They are not made or intended to provide bodily protection injury in a collision with another vehicle or object.

CAUTION

Pay strict attention to road surfaces and wind conditions. These may include:

- a. *Wind blasts from passing trucks.*
- b. *Holes in the pavement.*
- c. *Rough road surfaces.*

Any two-wheeled vehicle may be subject to these forces influencing the handling characteristics of the vehicle. If this happens, reduce speed and guide the motorcycle with a relaxed grip to a controlled condition. Do not brake abruptly or force the handlebar. This may aggravate the unstable condition.

CAUTION

Do not allow others under any circumstances to operate your motorcycle unless you know they are experienced, licensed riders and familiar with the operation of your particular motorcycle.

CAUTION

Protect your motorcycle from theft. After parking your motorcycle, lock the steering head and remove the key from the ignition switch.

CAUTION

New riders should gain experience under various conditions while driving at various speeds. Operate your

motorcycle defensively. Remember, a motorcycle does not provide the same protection as an automobile in an accident. One of the most common accident situations occurs when the driver of the other vehicle fails to see or recognize a motorcycle and turns in to the oncoming motorcyclist. Drive with your headlamp on.

CAUTION

Wear an approved helmet, clothing and foot gear suitable for motorcycle riding. Bright or light colours or clothes with fluorescent patches or reflectors are best for greater visibility in traffic, especially at night.

CAUTION

Accessories that change the operator's riding position may increase reaction time and affect the handling of the motorcycle.

CAUTION

Additional electrical equipment may cause overload of the motorcycle's electrical system and an electrical system and/or component failure. Additional electrical load will also drain the batteries faster, resulting in reduced travel distance and more frequent recharging.

Controls and Indicators

NO	Description
1	High beam headlight indicator
2	Speedometer
3	Odometer
4	Direction light (turn signal)
5	Power indicator
6	Battery status indicator

NO	Description	Function
1	Master light power switch	Right/off all power to lights (except brake light) off Center front safety/fog light plus rear taillight on Left headlight on
2	Horn	Sounds horn
3	Throttle	Twist speed control
4	Brake levers	Front brake is same side as throttle control
5	Headlight high beam switch	Controls headlight high/low beam
6	Turn signal switch	Left/right turn signals

Overview of Motorcycle



1. Back mirror
2. Seat cushion
3. Taillight
4. Fender
5. Rear shock absorber
6. Rear wheel
7. Electric motor
8. Headlight
9. Turning light
10. Front shock absorber
11. Front wheel
12. Front brake

Specifications

Name	Specification	Name	Specification
Dimensions	1800x630x1120 mm	Electric motor nominal power	1500W
Wheelbase	1265 mm	Electric motor nominal current	13A
Weight (with 1 battery)	82 KG	Electric motor nominal voltage	60V
Load capacity	150 KG	Electric motor efficiency	>80%
GVWR		Battery type sealed acid gel	Polyelectrolyte
Max.speed	25 km/h – 45 km/h	Charging voltage-input	220V
Range	55 km @ 45 km/h	Charging voltage-output	60V
Braking distance	7m (630 km/h)	Recharge energy consumption	1-1.8 KWh
Climbing ability	15°	Recharging time	6-8 h
Noise level	<55 dB(A)	Front headlamp	12V35W
Transmission	Infinitely variable speed	Direction indicator lamp	12V5W
Electric motor type	Brushless	Taillight	12V21W
Rechargeable battery	60V20Ah	Instrument panel lamp	12V1.7W
Tyre size	120/70-12		

Your motorcycle is equipped with a steering lock. You can lock the steering head of the bike by turning the handlebars to one side and turning the ignition key to the left lock position.

Removing the key will lock the steering in the turned position.

Check that you have accomplished this by trying to turn the handlebar. Turning the key to the right will unlock the steering head.

Turn the ignition key to the right position to start the bike.

Operation

Pre-riding checklist

WARNING

Read the controls & indicators sections of this manual before riding your motorcycle.

Before riding your motorcycle at any time, make a general inspection to be sure it is in a safe riding condition.

Check front and rear tire pressure and that the brakes are working.

Put up the kickstand. Sit on the seat, put the key in the ignition switch and turn the key clockwise to on.

The power indicator lamp should be illuminated. You can now check the status of the battery charge level and check that all lights including panel light, turning signal and stop lamp are working.

WARNING

Be sure the kickstand is fully retracted before riding the motorcycle. If it is not fully retracted it could come into contact with the road surface and cause a momentary disturbance before retracting. This disturbance could result in loss of vehicle control and result serious injury or even death.

Starting the motorcycle

- a. *Put up the kickstand.*
- b. *Sit on the seat, put the key in the ignition switch and turn the key clockwise to ON.*
- c. *Turn the twist throttle towards the rider. The motorcycle will start moving forward.*

CAUTION

The rider must be sitting in a comfortable and balanced position when the motor bike is on before starting. Failure to be correctly seated could result in being unseated as the motorcycle moves forward and may result serious injury or even death.

Changing speed

Turn the twist throttle inwards (counterclockwise) to accelerate the speed; turn the twist throttle outwards (clockwise) to reduce speed.

CAUTION

Turn the throttle smoothly when changing speed, for your safety and to reduce any mechanical damage.

Changing direction

- a. Switch the direction switch to the left or right before making a turn. The turn signal will flash.
- b. After turning, push the button once. The turn signal light turns OFF.

Braking

Braking is controlled by the brake hand levers located on either side of the handlebar. Applying either brake lever will illuminate the rear brake light.

Brakes should be applied uniformly and evenly to prevent from locking up. A balance between front and rear braking is generally best.

CAUTION

Do not brake by using the front brake alone. This could cause the motorcycle to tip forward unseating the rider, and causing loss of control of the motorcycle, which could result serious injury or even death.

⚠ WARNING

Do not apply the brakes strongly enough to lock the wheels. This may cause loss of control of the motorcycle and could result serious injury or even death.

NOTE: This motorcycle has a system which cuts off the motor power while braking. Return the throttle back to normal position to avoid the motorcycle moving forward suddenly when you release the brake.

Points to remember while riding your scooter.

1. Always sound your horn and use your turn signals when passing other vehicles going in the same direction and never try to pass at intersections, round curves or when going up or down hill.
2. Your electric motorcycle is a quiet machine, unlike normal motorcycles. Frequently use the horn to warn other vehicles and pedestrians of your presence.
3. Always use your signals when preparing to pass or stop.
4. Obey all traffic signs and signals. Be particularly careful when there are school or railroad crossing signs.
5. When turning, watch for pedestrians and animals as well as other traffic.
6. Obey traffic lights. Don't anticipate the light changing.
7. Do not leave the curb or parking area without signaling and checking that your way is clear of moving traffic.
8. Be sure that your license plate(s) are correctly installed and visible, where applicable.
9. Ride at a safe speed that is consistent with the type of road you are driving on. Watch for debris such as leaves or loose gravel, which can cause wheel slip.
10. Adjust your driving to weather and traffic conditions, increase braking distance in wet, icy, oily road conditions or when it is snowing.

Driving through water

WARNING

The electric motor on your scooter is located in the hub of the rear wheel. Avoid driving through deep puddles or still water that reaches up to the hub level of the wheel. Doing so will immerse the electric motor and could result in damage. If you have driven through deep water, allow your motorcycle to thoroughly dry out before using again and consult your dealer.

Parking

Reduce the chance of theft on your motorcycle by using the steering lock.

Choose a safe parking space for your motorcycle.

Put down the kickstand.

Turn your handlebars to allow the steering lock to be activated.

Turn the ignition key to lock and pull out the key.

Recharging your motorcycle

Your motorcycle is equipped with a dual voltage charger which you may store in any of the three storage areas provided on the bike, however it is recommended that you store the charger under the seat where it can't be inadvertently taken out of the storage compartment.

- a. Turn off the power.
- b. Lift the seat and pull out the charger, plug in one cord from the charger to the bike outlet located under the seat and the other cord from the charger to an A/C outlet (your charger may be provided with a US power plug so you may need an adapter, depending of the country you live). Then, you will be charging the batteries on your bike. It will take about 6-8 hours.
- c. After charging, put the charger back to the box under the seat.

Notes:

1. Always use the charger manufactured by our company only. Failure to do so will void all warranties.
2. Charge the motorcycle under cover so that the water doesn't enter the area under the seat while it is lifted.
3. Avoid using the fast charger (accessory) when possible to prolong the life of the batteries.
4. The battery should be fully charged. Recharge the battery once a month even if it will not be used for a while.
5. If the temperature of the battery is too high or the indicator shows abnormal flashes, stop charging and contact your authorized dealer.
6. Recharge immediately after each ride to prolong battery life.
7. If your motorcycle is stored and not used for a long time, charge your batteries before using it.

WARNING

Recharge your motorcycle in a ventilated environment. Do not recharge in a space where there is corrosive or flammable air.

Safety cut-off switch

Your motorcycle is provided with a cut-off switch located under the seat. This switch cuts off all power to bike from the batteries and is used when transporting the bike.

You may also use the switch to:

1. Minimize the battery drain if you don't intend to use your motorcycle for some time.
2. As an added theft deterrent. You may turn the switch to the off position while parking your bike if you expect to leave it parked for some time.

Storage

Your motorcycle is equipped with three locked areas for storage; under the seat, behind the seat and in the front steering head.

Maintenance

Good maintenance means a safe motorcycle. A careful check over the motorcycle should be done frequently between regular service intervals and after any time the motorcycle has been in storage or unused for a period of time.

Before riding, always:

8. *Check the turn signals, horn, head lamp, taillight and brake lights.*
9. *Check the function of the brakes and steering.*
10. *Check the operation of the panel indicators.*

At regular intervals check:

1. *The fasteners to make sure they are tightly connected.*
2. *The electric connectors and make sure they are not loose.*
3. *The front and back tires' pressure.*
4. *Tires wear, tread depth, abrasions or cuts. If they are worn replace the tires. Replace tires if the depth of thread is less than 2mm.*
5. *Brakes, steering and throttle for responsiveness.*
6. *Any cables for fraying or crimping and for free operation.*
7. *Wheel spoke tightness, if applicable.*
If you find that any function has seized up, recommends bringing your motorcycle to your authorized dealer for overhaul.

⚠ WARNING

Your motorcycles controller, charger, electric motor and circuit are finely adjusted and designed. If you experience any trouble which the electric components please consult your authorized dealer. Do not unseal any component or attempt to repair yourself. Failure to follow these directions will void all warranties and may cause you a very expensive repair.

Troubleshooting

	Trouble	Cause	Repair
1	Turn on ignition, no indication	Cut off switch in off position	Turn to on position
		Loose battery wiring	Check wiring and tighten
2	Indicator lamps function but the electric motor does not start	Not sufficient battery charge	Recharge batteries
		Accelerator throttle loose, frayed or disconnected.	Take the bike to an authorized workshop
		Wiring problem in circuit or charger malfunction.	Take the bike to an authorized workshop
3	After charging, shortened travel distance	Tires under-inflated	Pump up tires to correct pressure
		Insufficient charging time	Recharge batteries
		Charger trouble	Contact dealer
		Battery age or deterioration	Change battery

Warranty information

Thank you for choosing this electric motorcycle. Please keep your receipt and warranty card for the warranty to be valid.

1. See the chart below for the warranty coverage

Item	Warranty period	Depreciation rate	Malfunction
Electric motor	2 years	Rechargeable	Malfunction
Rechargeable battery	2 years		Leakage or rated capacity <60%
Frame, front fork	2 years	Battery -3%	Fail weld or broken
Controller	2 years		Malfunction
Charger	2 years	Others 1%	Malfunction

Note: Any parts' replacement (including motorcycle, charger and rechargeable battery) will be done under the warranty terms and within the warranty period.

2. Warranty period begins according to the date on the receipt.

Please keep the receipt and warranty card.

3. The warranty service doesn't apply to the following conditions:

- a. *No receipt or warranty card.*
- b. *The recorded number is different.*
- c. *Improper repairs.*
- d. *Neglect of pro per maintenance.*
- e. *Abuse, overload or chemical damage.*
- f. *Appearance damage after selling.*
- g. *Brake, fuse, light bulbs, wearable products.*

4. If the rated capacity of the rechargeable battery is lower than 90 % within the 15 days of purchase, we will replace with a new battery. If the rechargeable battery power is lower than 60 % within the warranty period, we will repair it. But the warranty period is still based on the purchase date.

Model#		Electric Motor#	
Charger#		Battery#	
Purchase date		Receipt#	
Name		Zip code	Tel
Address			
Dealer			
Address			

Thank you for choosing our product. Please keep the receipt and warranty card for free service within the warranty period.