

Table of Contents



I. Table of Contents1
II. Product Features2
III. Specifications4
IV. Parts and Components 5
V. Usage
VI. Installation7
VII. Charge Method9
VIII. Check before Riding12
IX. Riding Instructions14
X. Maintenance and Repair 15
XI. Troubleshooting



Product Features



A 100% electrically motor-driven system (E-bike) and a power-assisted system (PEDELEC) are interchangeable.



Traditional Bike

Electrical Bike





A high power, long life cycle rechargeable Ni-MH battery is specially designed to be safe and environmentally friendly by eliminating the use of the toxic materialslead & cadmium.

-2-



Product Features

Longer Running Distance

A high power rechargeable Ni-MH battery is used to provide electric bike to be able to run a longer distance and usually the distance range of 30~60 kilometers would be expected, depending on road condition, weight load, electrical system chosen and battery capacity used.



More Comfortable

A high efficiency motor combined with a high power Ni-MH battery provides you a easy and comfortable riding with excellent recreational pleasure when passing through uphills or riding against strong wind.



Fast Charge



60,000 KM

The specially designed high quality charger developed by AWIN can shorten the charging time effectively in the range of 2~3 hours, depending on battery capacity used.





AWIN Ni-MH batteries contain no toxic heavy metals and are safer for environment than Ni-cd batteries.

-3-



Specifications

Dimensions : 1,580mm(overall length), 550mm(overall width), 720~860mm(saddle height)

- Distance between axles(wheelbase) : 1,070mm
- Tire size : 20"
- Weight of vehicle : About 28 kg
- Limitation of load : 100 Kgs
- Range of assisted speed : 0 ~ 25 km/h
- Running distance of run on 1 full charge : 30 ~ 60 km [*]
- *Maximum speed*: 25 km/h
- Motor type : Direct current with brushes
- Rated output : 180W
- Control system : PWM controlling type
- Power drive : Chain
- Battery type : High Performace, high power Ni-MH Battery
- Battery Capacity: 24V 8Ah or 24V 12Ah
- Charging time : 2~3 hours [**]
- [*] : The running distance may vary depending on road condition, weight load, electrical system chosen and battery capacity used.

-4-

[**]: Use of AWIN's high quality quick charger is required.



Parts and Components



Specified Battery pack and Charger

The battery pack may be broken or not function well if the battery pack and charger do not collaborate with each other. Therefore, please use the charger exclusively developed by AWIN for the battery of the bike. 110V or 220V AC power shall be used for charging and it usually takes 2~3 hours to complete a fully charge.

-5-



Usage

The user shall not modify or dismantle any parts or components of the electric bike (including chain cover, battery pack, motor, charger, etc.) to avoid danger.

Prohibitions

1. Children and youngsters below 14 are not allowed to ride the electric bike for the sake of safety. 2. It is not allowed to ride the same electric bike by two riders simultaneously. 3.A helmet and other appropriate protection equipment shall be worn when riding the electric bike. 4. When any abnormality occurs, don't ride the electric bike any more. 5. Don't ride the electric bike in darkness or adverse weather conditions. 6.Don't ride the electric bike when the road is wet, sliding, contaminated with mud or oil, or in other bad conditions. 7.Don't ride the electric bike when you don't feel well or are drunk. 8.Don't operate the power switch with hands during the riding to avoid danger. 9.Don't ride the electric bike with only one hand, with a hand holding objects or umbrella. 10.Don't overload the electric bike (max. 3 kg for the front basket, while 10 kg for the rear carrier). 11.Keep the electric bike within the safe distance and speed to avoid danger when riding on a downhill path. 12. Use the front and rear brakes simultaneously for power braking. 13. Park the electric bike on an even road section. Don't park it on the slope.

-6-



Installation



1.Unpack

Please check all of the components in carton including a electric bike, a battery pack, a charger, a basket, a set of pedals, a set of installation kits and user manual.

2.Assembly

Release the folding levers:

Release the folding lever 1 and extend the folded bike, then fixing the lever 2 tightly.



Adjust the seat:

Release the Quick Lever and adjust to an appropriate height what you desire and press it tightly.



Install Battery Pack:

Take the power socket of controller is plugged in the connector of battery pack. And lock the padlock of carrier.





Install portable basket:

Fix the setscrews at points A and B. Hold the bayonet and put the basket into staddle, then release the bayonet to fix the portable basket.

Extend foldable pedals:

Hold the bayonet of the foldable pedals, then extend the pedals for use.



Installation

3.Trial Riding

A. Power Assisted Mode (PEDELEC)



Turn on the power switch, and hold on the lever for more than 6 seconds when the battery power LED lights, then sit on the seat and stamp the foot pedals to ride the electric bike in Power Assisted Mode.

B. 100% Electric Mode (E-Bike)



Turn on the power switch, and hold on the lever for more than 6 seconds when the battery power LED lights, then sit on the seat and turn the speed control throttle to ride the electric bike in 100% Electric Mode.

Notes of installing the battery pack

- 1. When you put the battery pack into rear carrier, please keep the pack holder upside, and make sure the position of battery pack is correct or not.
- 2. However, you must plug the battery pack socket into the connector of the controller before turning on the power switch.
- 3. Please keep the key of padlock carefully for fear of your inconvenient.
- 4. Before you want to take out the battery pack, firstly, peel off the connection between the battery pack and controller.



Charge Method 1. Attentions when charging the battery pack

Attentions

- Only use the qualified charger designed exclusively for the battery pack.
- The indicator will turn to green when the charging is completed, Repeated charging shall be avoided

because it may shorten the service life of the battery.

Always keep the charger at a place where children is separated from touching.

Keep away from fire

- ▲Keep the battery pack away from any place where firing may occur, including fire source, smoking area, high temperature area, adverse ventilation area, etc.)
- ▲ Charge the battery at a place with good ventilation and no direct exposure in the sun.

Guard against electric shock

▲Do not charge the battery pack in a wet environment especially in a rainy day.



Two standard battery-charging approaches are available:

-9-

A. Charge the whole electric bike



 \boldsymbol{B} . Take out the battery pack and charge it



AWIN TECHNOLOGY CORP.

Charge Method 2. Charging Steps

Identify the power source of the charger and make sure that the power supply of the electric bike is turned off before the charging begins.

Connection:

5



A.Charge the whole electric bike Connect tightly the charging plug of the charger to the charging socket on the bike.

B.Charge the take-out battery pack Take out the battery pack and connect tightly the charging plug of the charger to the charging socket of the battery pack.

Charger Indications:

Red lights → Power ON Yellow lights → Charging Green lights → Fully charged Yellow blinks → Detecting, incorrect connection or abnormal detected

3 Use 110V or 220VAC Power for the charging. Make sure that the plug is inserted in the socket correctly before turning on the power switch of the charger.

4 The red indicator lights when the power switch of the charger is turned on. The yellow indicator then blinks for about 5 seconds to detect the charging environment. The charger is in a quick charging state when the yellow indicator lights continuously.



-10-





= =



Charger

Charge Method 3. Charging Instructions



Charge the battery pack before riding

Charge the battery pack for at least 30 minutes before using the bike for the first time.











FULL HALI FMP

100~75% 50~30% Power Power

- Less than
 - Charge 20% Power immediately



Charge interval

- Charge the battery pack when the "Red" indicators blinking.
- Charge the battery pack after the electric bike is not be used for a long period.
- Charge the battery pack every 1~3 months during the storage to prevent from the shortening of its service life.

Replacement of battery pack

- When you ride the electric bike, three indicators light and indicate that the battery is fully charged.
- Replace the battery when the running distance of run on 1 full charge is only about one half of a new battery pack.
- Purchase the new battery pack from us and recycle the used battery pack.



Check Before Riding



Check and adjust the following points before riding the electric scooter. Stop riding the electric bike when any abnormality is found during the riding. Contact us at 886-3-597-3688 or e-mail to <u>tsengww@ms54.hinet.net</u> or any one of our authorized service centers.

Front handles: Make sure that the front handles are fixed well. Use a hexagon wrench the fix the setscrews if they are loose.

Pedals: Make sure that the setscrews of the foot pedals are fixed tightly.

Seat: Adjust the height of the pedals to fit the height of the rider.



Front/rear wheels: Make sure that the setscrews of the front/rear wheels are fixed tightly.

Head light: Push the press lever before using the head light to make the friction roller contact with the tire.

Battery pack: Make sure that the position of the battery pack is correct and the residual capacity of the battery pack is enough.



Check Before Riding



Check and adjust the following points before riding the electric scooter. Stop riding the electric bike when any abnormality is found during the riding. Contact us at 886-3-597-3688 or e-mail to <u>tsengww@ms54.hinet.net</u> or any one of our authorized service centers.

Break lever: Make sure that the tension of the break lever is proper.

Tire: Make sure that the tire pressure is appropriate (air pressure: 3.0 kg/cm²)

Chain: Make sure that the tension of the chain is proper.

Bell: Make sure that the bell is installed at the right position and rings well.

Reflective strip: The reflective strip shall be used when riding in the night for the sake of safety.



Riding Instructions

Power switch: To ride the electric bike, turn on the switch and hold on the break lever for more than 6 seconds.

The power will shut off automatically when the electric bike is not ridden within 3 consecutive minutes.





Indications:

Battery Capacity Indicator		
$\bullet \bullet \bullet$ Three indicators light	100~75% power	
$\bigcirc \bullet \bullet$ Two indicators light	50~30% power	
○ ○ ● One indicator lights	less than 20% power	
○ ○-———————————————————————————————————	charge immediately	

Release the foot support and make sure that the road surface is even.

4

5

3

Make sure that no traffic coming from the left and right sides.

A. Power assisted Mode

Sit on the seat and stamp the foot pedals to ride the electric bike in Power Assisted Mode.

B. 100% Electric Mode

Sit on the seat and turn the speed control throttle to ride the electric bike in 100% Electric Mode .

(Power output is controlled by the speed control throttle in 100% Electric Mode.)



Maintenance and Repair

Burglar proof Measures: 1. Park the electric bike at a safe place, such as court of the house, balcony or garage. 2. Lock the electric bike and take out the battery pack. Lock it on a fixed position with a chain and a locking head. Parking environment: 1. Park the electric bike at an even road surface. 2. Park the electric bike at the place with good ventilation and low humidity. 3. Prevent the electric bike from exposing in the sun or wetted by the rain. Periodical charge: Charge the battery every 1~3 months during the storage to prevent from the shortening of its service life. Saving Energy: After riding the electric bike, turn off the battery switch located on the battery pack for saving energy of the battery pack. Tire pressure: An appropriate tire pressure shall be maintained to avoid deformation of the tire. Cleaning and maintenance: 1. Plated metal parts: The surface of the metal parts shall not be worn or lose gloss due to the cleaning. 2. Metal Parts: Don't remove the rust proof agent on the surface of the metal parts. 3. Washing: Prevent water from spilling into the chain cover, motor and battery pack. Lubrication: Apply lubricant to the bell, brake handles, chain and foot support. ◆ Non-lubrication: Don't apply lubricant to the hubs and the front and rear brake rubber parts.



AWN AWIN TECHNOLOGY CORP.

Trouble Shooting

Charging			
Fault	Possible Causes	Measures	
Charger indicator doesn't light	Charger and battery pack	 Check all connections. If it doesn't work, contact with us or our authorized service centers for repair. 	
Abnormal noise, odor, smoke from charger	Charger circuit fails	 Stop charging and remove the power cable immediately. Contact with us or our authorized service centers for repair. 	
Charger temp. too high	Charger circuit fails	 Stop charging and remove the power cable immediately. Contact with us or our authorized service centers for repair. 	
Charge time too short	Charger circuit fails or Battery fails	 Stop charging and remove the power cable immediately. Contact with us or our authorized service centers for repair. 	
Battery pack temp. too high	Battery fails	 Stop charging and remove the power cable immediately. Contact with us or our authorized service centers for repair. 	



Stop riding the electric bike when any abnormality is found during the riding. Contact us 886-3-597-3688 or any one of our authorized service centers. Don't dismantle or adjust the electric bike without acquiring the prior consent of us.

-16-



Trouble Shooting

During Riding			
Fault	Possible Cause	Measures	
The power indicator of the switchbox does not light.	 The power switch is turned off. The charging connection between the battery pack and the bike is de-energized. 	 Turn on the power switch again. Make sure that the charging connection between the battery pack and the bike is energized. If the electric bike still doesn't work, contact us or send the electric bike to our authorized service center for repair. 	
Over-stamp Insufficient Power	1.Power trip 2.Battery power too low 3.Tire pressure too low	 Check the power connection and turn on the power switch again. Charge immediately. Pump the tire to provide sufficient pressure. If the electric bike still doesn't work, contact us or send the electric bike to our authorized service center for repair. 	
Motor Malfunction: Sudden trip, abnormal noise, odor, smoke	Motor Failure	Contact us or any one of our authorized service centers	



Stop riding the electric bike when any abnormality is found during the riding. Contact us 886-3-597-3688 or any one of our authorized service centers. Don't dismantle or adjust the electric bike without acquiring the prior consent of us.

-17-

