



Please read this operation manual carefully. Do not use the vehicle until you have a full understanding of its performance.

Please keep the operation manual properly

DH-18 (iDou) model User Manual 2019 version

Thank you for choosing to buy the electric scooter. Our company and all staff sincerely welcome and thank you for your choice.

Driving safely is the most important thing for Doohan. For the safety of you and others, please read this product manual carefully before use.

This manual will show you how to operate, check and maintain. If you have any questions about the operation or maintenance, please consult with the distributor of Doohan electric motorcycle.

The design and manufacture of electric motorcycles are in full compliance with EU standards. The electric motorcycle meets these standards without reducing the performance of the motorcycle. In order to maintain these high standards, please pay close attention to the requirements and suggestions in this manual with your motorcycle dealer.

1) remind users to abide by traffic regulations and pay attention to driving safety. Such as:

A) electric motorcycles shall be driven in accordance with local regulations and the maximum speed shall not exceed 45km / h;

B) caution: do not lend the electric motorcycle to the person who will not operate it, so as to avoid injury;

C) the electric motorcycle shall carry personnel or articles in accordance with laws and regulations;

D) wear helmets when riding;

E) when riding in rainy or snowy days, the braking distance will be extended, so slow down and avoid traveling in severe weather such as rainstorm.

2) remind the user to pay attention to the safety of electric motorcycle.

Such as:

- A) electric motorcycles shall not be parked in the building hall, evacuation stairs, walkways and emergency exits;
- B) electric motorcycles shall not be charged and parked in residential buildings, and shall be kept away from combustibles during charging, and the charging time shall not be too long;
- C) correct use and maintenance methods of storage battery; waste storage battery shall not be disassembled without authorization, and shall be recycled by relevant professional departments;
- D) safe use method and warning words of charger; when replacing charger, it shall match with battery model;
- E) precautions for water washing;
- F) when adjusting handlebars or saddles, pay attention not to expose the

safety line marks of handlebar risers and saddles (when applicable).

3) check before riding. If there is any abnormality, please repair it in time or find a professional one. Such as:

- A) power circuit, lighting circuit and other states;
- B) whether the front and rear gates can work normally;
- C) fastening status of handlebars and front and rear wheels;
- D) tyre pressure;
- E) whether the reflector is damaged or contaminated.

4) express the relevant information of electric motorcycle. Such as:

- A) figure out the marking position of the whole vehicle code;
- B) schematic diagram, battery installation diagram and electrical schematic diagram of electric motorcycle, and indicate the specifications and parameters of fuse or short circuit protection device;

C) main technical parameters in Appendix A of this standard.

The driver should understand:

- master the operation of all parts of the electric motorcycle.
- pay attention to the warning and maintenance related information in the manual.
- some simple basic problems of electric motorcycles can be solved through the manual.

※Be careful:

- the manual shall be considered as a permanent part of the motorcycle and shall be kept for a long time even if it is sold.
- the company seeks continuous progress in product design and quality. Therefore, although this manual contains the latest product information, it is possible that there is a slight difference between your motorcycle and this

manual. If you have any questions about this manual, please consult with the distributor of Yuha electric motorcycle.

**Warning:** please read this manual carefully and do not operate your motorcycle until you have safe and proper riding technology. Please check and maintain the motorcycle regularly, and have good riding skills, which will ensure that you can operate the motorcycle safely.

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- . Instructions for use
- Under the condition that the front and rear tire pressures of the vehicle are normal (see the main technical parameters for details), the maximum total mass of the



vehicle is 180kg (including the weight of sundries and goods carried by the vehicle and the weight of the driver and passengers themselves), and one person is limited.

- the vehicle's tool box, glove box, hook and other storage facilities can only place the lighter weight items. All objects installed on the vehicle shall be fastened first to prevent looseness and falling during driving.
- The vehicle should be driven on the road surface. Although it can be normally driven in rainy and snowy weather, it is not allowed to wade. When the water level is flooded to the central shaft, it may cause water inflow or failure of the motor, battery, or other components.
- Based on safety considerations, slow down when driving to rainy and snowy days and slippery sections; increase braking distance when braking to ensure safety.
- Do not disassemble and disassemble parts by yourself, and the company will not be

**responsible for the loss caused. If you need to replace parts, you can consult with your electric vehicle dealer after sales.**

**Be careful:**

**When the front and rear wheels of the vehicle are on the ground, the rider is not sitting on the saddle and is not ready for riding, do not turn on the power and turn the handlebar to prevent the vehicle from suddenly rushing forward and causing safety accidents.**

**Safe riding**

- **before driving the vehicle, carefully read "pre driving inspection". Please check the**

**vehicle first, so as to prevent accidents.**

● **this motorcycle only carries one driver.**

● **the user shall abide by the traffic regulations and pay attention to the driving safety.**

**1) the electric motorcycle shall be driven in the non motor vehicle lane with the maximum speed not exceeding 45km / h; on the road without the non motor vehicle lane, it shall be driven on the right side of the vehicle lane;**

**2) don't lend the electric motorcycle to the person who can't operate, so as to avoid injury;**

**3) the electric motorcycle shall carry personnel or articles in accordance with laws and regulations;**

**4) when riding in rainy or snowy days, the braking distance will be extended, so slow down and avoid traveling in severe weather such as rainstorm.**

● due to the small size of motorcycles, accidents often occur between motorcycles and automobiles due to the sight. Many of these accidents are caused by the fact that the driver didn't find the motorcycle. So drivers make motorcycles more conspicuous, which will reduce the probability of such accidents.

So:

- wear distinctive clothing and qualified helmets; the driver wears special clothing and protective equipment.
- when you cross the intersection, pay special attention to other cars in these accident prone places to ensure that the driver can see you.
- when riding, make sure you are in the field of vision of other drivers and avoid the blind spot area of other drivers.
- do not get too close to other motor vehicles, correctly use turn signal lights, horns and other signal devices, and strictly abide by traffic rules.



Correct



Wrong



Wrong

## 2. Main Specification data

Measurement

Long	1630mm	Wide	715mm
Height	1035mm	Base	1210mm
Main performance			
curb weight	57kg	Designed Max speed	45km/h
Rated Voltage	48V	Maximum nuclear load	180kg
Passenger	1 person		
Frame			
Front Shock absorber	Tube		
Rear Shock absorber	Spring and oil damping type		
Front tire	70/90-12		
Rear tire	90/70-12		
Fr. Tire Pressure	$225 \pm 10$ (Kpa)		

Rr. Tire Pressure	225±10 (Kpa)
Fr. Wheel (alloy)	16×2.50
Rr. Motor wheel	2.15X12
Front brake	Disk
Rr. brake	Disk
Seat height	710mm
Battery system	
Vehicle type	Electric scooter
Battery	18650 Ternary lithium battery
Voltage	48V
Capacity	26AH
Charging input voltage	AC220V

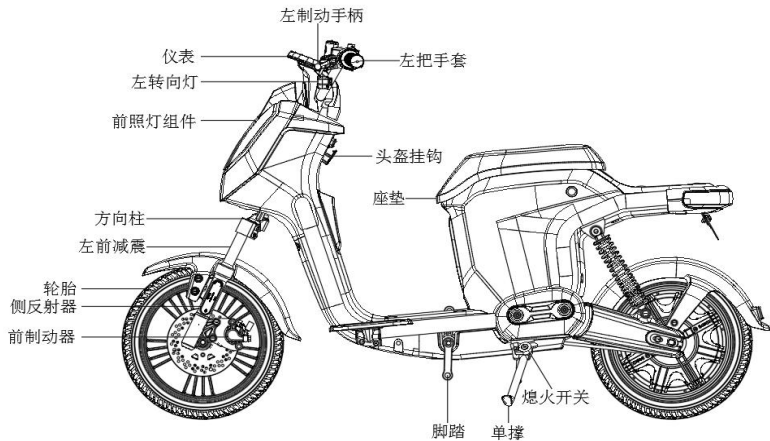
Charging output voltage	58.1V
Charging current	5A
Standard charging time	6H
Range	74km
Battery weight	8KG
Charging times	600 times
Using temperature	-20°C-60°C
Battery storage	1 month: -20~60° C 3 months: -20~45° C 1 year: -20~20° C
Charging environment Temp.	0°C to 45°C
Battery protection	Over discharge protection, short

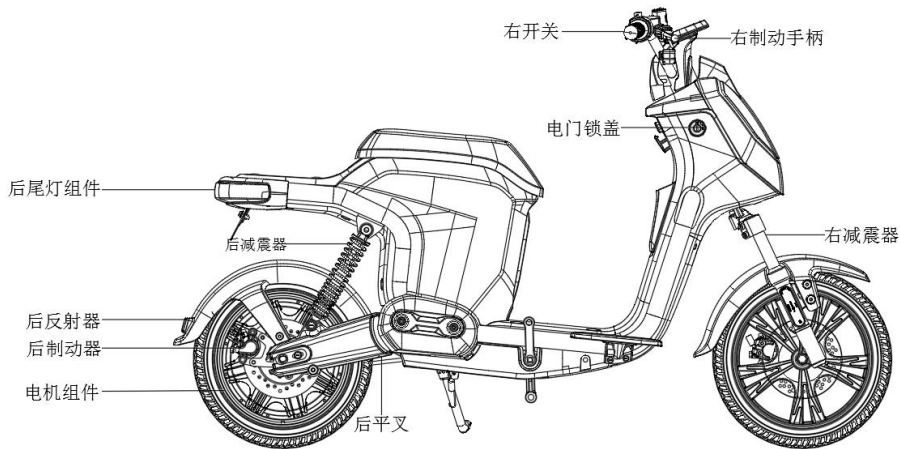


	circuit protection, temperature protection, over charge protection, over current protection, battery balance protection
others	
Instrument	LCD
Fr. Head light	12V LED
Fr. Location light	12V LED
Fr. Turning signal	12V LED
Rr. Turning signal	12V LED
Rr. light	12V LED

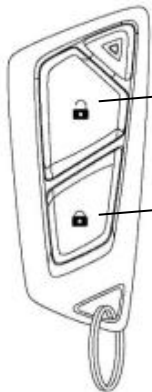
License plate light	12V LED
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### 3. Main parts





#### 4. Remote control, one button start and APP



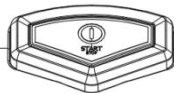
**UNLOCK**

- ① when you press the unlocking key, there is a prompt sound "didi"
- (2) press one key to start, then you can drive the vehicle.

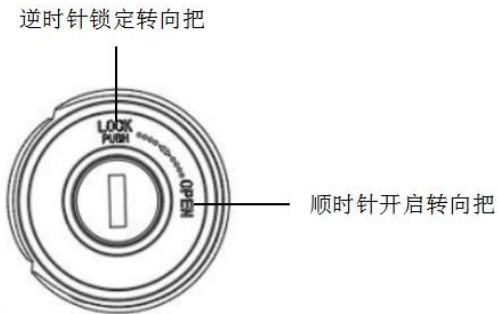
**LOCK**

- ① when you finish driving, press one key to start, the vehicle locks successfully, and the car automatically enters the primary level.
- ② press the lock button again to enter the advanced anti-theft mode.

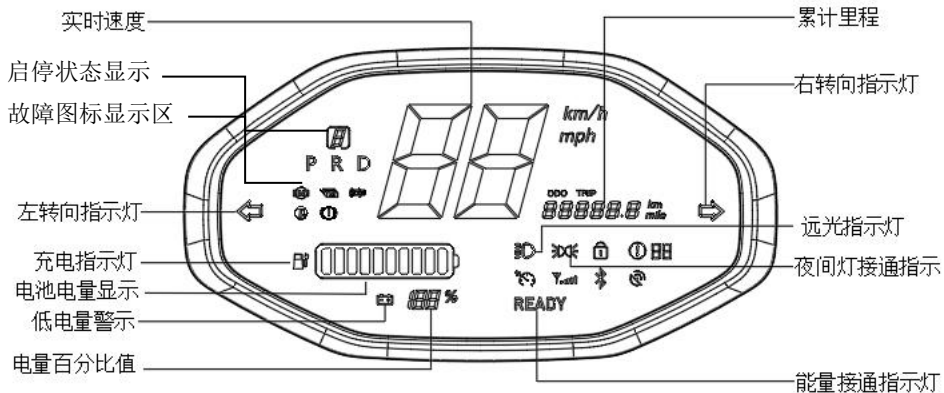
一键启动按钮







## 5. Use of steering lock



## 6. Instrument cluster and combination switch



### Instrument icon Description:

	The remaining battery capacity is displayed, each cell represents 10%
	The battery capacity percentage shows that when the battery capacity is lower than 30%, the left battery symbol flashes.
	Current real-time speed display, supporting public mile switching
	Display of accumulated mileage of the whole vehicle, supporting public mile switching





High beam display



Driving light display



Lock status display (only applicable to high configuration models)



Fault code prompt



On / Off switch locking prompt



Left turn signal display



Right turn signal display

**READY**

Vehicle ready for power on display



The whole vehicle belongs to cruise status prompt  
(optional)



Normal display of network permission (only applicable to  
high configuration models)



Normal display of Bluetooth connection (only for high  
configuration models)



Normal display of GPS positioning (only for high configuration models)



Motor fault notice



Brake status notice



Controller fault Notice



Turning handle fault Notice



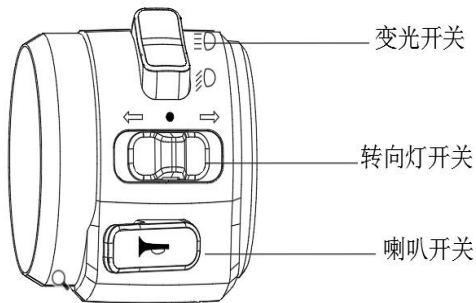
Fault prompt of side support

Left combination switch::

- ① dimmer switch :
- ② Press "☰D" button, high beam

Press "☰D" button, low beam

- ③ turn signal switch:
- ④ When you dial "↗" the right turn light is on
- ⑤ When dialing to "↖", the left turn light is on
- ⑥ When the middle position is pressed, the signal light goes out.



⑦ horn button:

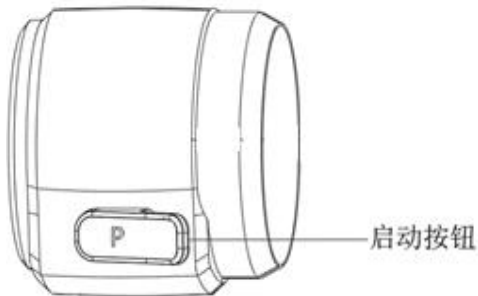
When the switch button is pressed, the horn will sound.

Alert other vehicles

Right combination switch:

① start button:

Press this switch button once, the vehicle will change from static state to dynamic state, and then press reset to return to standby state.



## 7. Battery usage

### battery indicator

1、 In the charging state, the indicator light flashes to display the current power; charging

After full, all indicator lights will be on and no longer flash.

2、 In the non charging state, press the power display key:

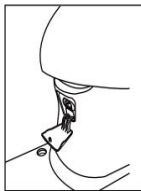
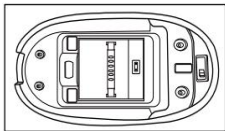
- the indicator light is flashing red: indicating that the power is less than 5%
- the indicator light is always red: indicating that the power is  $5\% < \text{RSOC} < 20\%$



- one green indicator light: indicating 20% of electricity < RSOC < 50%
- two green indicator lights: indicating 50% of electricity < RSOC < 80%
- three green indicating lights: indicating 80% of electricity < RSOC < 95%
- all indicator lights are on: indicating power 95% < RSOC
- If all indicator lights are not on, it means the battery is faulty. Please contact customer service at 400-060-3913, 400-022-8399.
- Please use the corresponding battery capacity according to the model standard configuration.



## Charging mode:



### Charging mode 1:

Take out the battery box, place the charger stably, insert the charger output plug into the charging socket of the battery box, and then insert the charger input plug into the household 220V standard socket.

### Charging mode 2:

Please turn off the power and remove the key. Open the protection cover of the charging hole, insert the output end of the charger into the charging socket, and insert the input end into the household 220V power socket.

**Attention:**

**It is forbidden to charge the battery box when it is inverted, otherwise the battery life will be seriously affected.**

- Please charge the battery within the ambient temperature of 0 °C ~ 35 °C.
- the charging time shall not exceed 10 hours, and overcharge will shorten the service life of the battery.
- It is forbidden to cover other items on the charger and battery box for ventilation and heat dissipation during charging.
- Do not dismantle the charger by yourself. If you need to replace it, please go to our special maintenance department to replace it.

- Attention:
- ① the battery is not a user serviceable part. In case of failure or the battery is not fully charged for more than 10 hours, please stop charging and consult the dealer.
- ② the charging function is turned off when the ambient temperature is below 0 °C, please charge the battery in the environment above 0 °C.
- ③ using non original charger may cause leakage, heating, smoke, fire or explosion of battery.
- ④ do not store the battery in an environment higher than 40 °C, otherwise it will cause irreversible capacity degradation of the battery.
- ⑤ at low temperature, the capacity of lithium battery will decline to some

extent. The specific reference degree is that the usable capacity at  $-10\text{ }^{\circ}\text{C}$  is 70%, the usable capacity at  $0\text{ }^{\circ}\text{C}$  is 85%, and the usable capacity at  $25\text{ }^{\circ}\text{C}$  is 100%.

- ⑥ the most suitable storage capacity of the battery is 30% - 50%. If the storage capacity is less than 10% for a long time, it will cause irreversible capacity degradation of the battery. If the battery is stored for a long time, please keep the battery at  $-10\text{ }^{\circ}\text{C} \sim 30\text{ }^{\circ}\text{C}$ , and conduct a complete charge discharge cycle for the battery every two months to minimize the storage attenuation of the battery.
- ⑦ avoid storing the battery in the place with falling risk, which may cause uncontrollable damage inside the battery and may cause the battery to leak,

heat, smoke, fire or explosion.

**Warning:**

Disassembling the battery without permission may cause leakage, heat, smoke,

## 8. Troubleshooting

Refer to handling methods for common faults		
Troubleshooting	Causes	Elimination methods
<b>Turn on the power, the whole vehicle has no power output.</b>	<ol style="list-style-type: none"><li>1. battery plug is not inserted.</li><li>2. Battery is dead</li><li>3. Battery damage</li><li>4. Fuse is blown</li></ol>	<ol style="list-style-type: none"><li>1. Charge the battery</li><li>2. Replace the battery</li><li>3. Replace fuse</li></ol>
<b>Turn on the power, turn the speed</b>	<ol style="list-style-type: none"><li>1. The battery voltage is too low.</li><li>2. The power-off switch is started due to holding the brake handle half.</li></ol>	<ol style="list-style-type: none"><li>1. Charge the battery</li><li>2. Do not hold the brake handle with both hands</li></ol>

<p>control knob, the motor does not start.</p>	<p>3. Vehicle not started 4. The accelerating handle is not reset</p>	<p>when starting 3. Start the vehicle 4. Reset the handle</p>
<p>Slow driving speed or short mileage</p>	<p>1. Low battery 2. Insufficient tire pressure 3. Frequent brake start, overload 4. Battery aging or normal attenuation 5. The ambient temperature is too low, and the capacity of the battery is weakened.</p>	<p>1. Charging or charger is damaged. 2. Check tire pressure before each use 3. Develop good driving habits 4. Replace the battery 5. Normal phenomenon</p>
<p>the battery</p>	<p>1. The charger plug is in poor</p>	<p>1. Check whether the</p>

cannot be charged.	contact with the battery socket. 2. Charger damaged 3. The charging wire is not connected in the right order.	plug is loose. 2. Replace charger 3. Plug in and charge again according to the charging mode sequence
Stop during riding	battery is dead	charge the battery



## **9. Maintenance and repair**

**In order to extend the service life of the locomotive and make it run safely and comfortably, please check and maintain the vehicle regularly. If the vehicle is stopped for a long time, regular inspection shall also be carried out.**

### **Daily inspection and adjustment**

**Before driving every day, the vehicle shall be checked regularly, and the importance of these checks shall not be ignored. Before driving, all the following checks shall be completed to ensure good performance and safe driving effect of the company.**

check whether the chain works normally

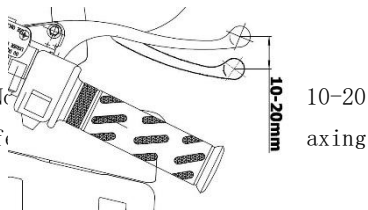
Check parts	key points
The steering handle	(1) is stable; (2) it can rotate flexibly; (3) there is no axial movement and looseness.
Brake system	the brake handle shall have a stroke of 10-20mm
Tire	(1) normal tire pressure (2) degree of wear (3) no cracks or cuts
Electric power	enough to drive the planned distance

Lights	operate all lights: check whether the high beam, low beam, brake and turn lights are normal.
Horn	check whether the horn works normally
Chain	check whether the chain works normally, The moving distance is 10-15 mm.

## 1: Brake

### 1) free travel of brake handle

The brake handle shall have proper clearance. No more than 10-20 Millimeter. The clearance system indicates the free travel of the handle to tightening.



The distance to the tight position.

2) brake fluid inspection:

(1) put the handlebar upright and check the brake fluid in the oil reservoir.

Must be maintained between the upper and lower limit markers.

(2) when the liquid level drops to the lower limit position mark, check the wear condition of the brake pad.

(3) if the wear of the brake pad does not exceed the specified limit, it usually indicates that there is oil leakage, please go to the maintenance station for maintenance.

(4) brake oil: dot3 or DOT4.

※Note: when the brake system needs to be maintained or repaired, the dealer of the company shall be responsible for the maintenance. When parts need to be replaced, the original parts of our company must be selected.

2: tire

(1) the tire pressure shall be checked and adjusted regularly.

(2) check the tire pressure when the tire is cold.  $225 \pm 10\text{KPA}$  before normal tire pressure.  $225 \pm 10\text{KPA}$  for rear tires.

(3) regularly check whether there are punctures on the tire, especially if there is air leakage in the tire, repair it immediately.

(4) check whether there are cuts, embedded nails or other sharp edges on the tire surface.

Objects. Check the wheel rim for indentation, dent or deformation.

If any damage is found, the maintenance department should be contacted  
Check.

(5) when the tread pattern is worn to the sharp corner of the tread wear  
mark "▽".

You should replace the tire immediately.

※Warning:

(1) if the tire pressure is too high, the tire may blow out during driving, resulting in traffic accidents; if the tire pressure is too low, the contact area between the tire and the ground will be too large, resulting in accelerated tire wear, increased power consumption, and even wheel rim slip or out of the rim.

(2) it is very dangerous to use tires with excessive wear, which will affect the adhesion between the tires and the road surface, cause driving difficulties and even accidents. When the tread depth on the central tread of the tire reaches the requirements in the table below, a new tire shall be replaced.

3: left and right turn lights, rear tail lights

Check whether the left and right turn lights and rear tail lights work normally.

If not, replace them in time.

4: horn

Check whether the horn sounds normally. If not, adjust or replace it in time.

5: speed control knob

Whether the speed regulating handle is effective, accelerated evenly, and can return to the position automatically.

Lubrication position and cycle

S / N	lubrication	lubrication	recommended lubricating oil
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	part	cycle	
1	Steering column	1 year	grease (calcium base grease)
2	Front and rear axle	1 year	grease (calcium base grease)
3	central shaft	1 year	grease (calcium base grease)
4	Pedal shaft	1 year	grease (calcium base grease)
5	Sprocket	1 week	lubricating oil
6	Chain	1 week	Oil
7	Inside of flywheel	1 month	lubricating oil
8	brake handle	1 month	lubricating oil



## Regular maintenance

Please carry out the first maintenance one month after purchasing or driving 500km, and then go to the special maintenance department of our company every six months or 3000km for comprehensive inspection and maintenance, so as to keep your car in the best safe condition and ensure the safety of riders and vehicles.

Regular maintenance and inspection items			
General safety and performance checks	Brake	Structural examination	Wheel bearing
	light		Shock absorber
	Horn		Side stand
	Electric		Steering bearing

	parts		
	Fuse	Main part	battery
	Tire		Main cable
Structural check	Lubricating		Controlling system

**Attention:**

- ① if it is often used under full load, heavy load, high-speed driving, bumpy road, up and down slope, please shorten the maintenance period;
- ② the original parts are made of good materials and have been rigorously verified. The quality and service life are guaranteed. Please use the original

parts during maintenance to ensure that the vehicle is in the best condition, driving safety and normal warranty service.

② during daily maintenance, if any abnormality is found during inspection and maintenance, it shall be cleaned, repaired or replaced in time. Please refer to the simple maintenance method or send the smart electric vehicle to the dealer for repair.

## **10. Vehicle storage**

### **Short term storage:**

- 1) Please store the vehicle in a flat and stable place; please store it in a well ventilated and dry place;**
- 2) store the battery when it is charged to 30% - 50% to ensure its service life;**
- 3) try to avoid the sun and rain, which can reduce the damage or aging of parts;**

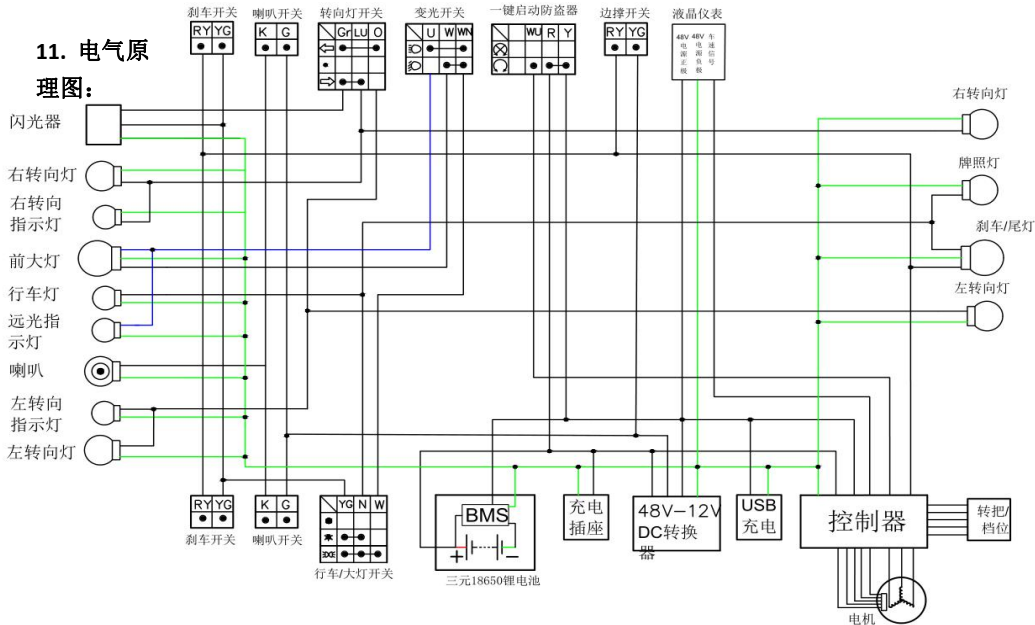
- 4) when the battery is stored for a long time and reused, please fully charge the battery;
- 5) when the vehicles equipped with batteries are stored in safe places such as indoor, exhibition hall and warehouse, or when the freight vehicles are used for short distance transportation, please close and pull out the key, and then pull out the battery plug, so as to eliminate the hidden trouble of electrical appliances.

Long term storage:

- 1) for long-term storage, please close and pull out the key, then pull out the battery plug, disconnect the battery power supply circuit, to prevent the battery from over discharging;

- 2) for long-term storage, please charge and discharge the battery once every two months, and store the battery when the battery is charged to 30% - 50% to ensure the service life of the battery;
- 3) when the battery is stored for a long time and reused, please fully charge the battery;
- 4) before driving, please check all parts before riding. If there is any abnormality, please return it to the dealer for maintenance or repair.

# 11. 电气原理图:



**doohan**

The logo features the word "doohan" in a bold, black, sans-serif font. Below the text is a small black five-pointed star centered above a thin, black, downward-pointing chevron or swoosh.