

24-Hour Hotline
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kaabo[®]

USER MANUAL

WOLF KING GTR



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Company Introduction

Kaabo Co. LTD, is a company who manufacture high quality electric scooters and accessories at market-leading prices since 2013.

Our scooter are about the joy of player. Each model has been handcrafted to give scooters true freedom. Take to the open road, or ouencross terrain which would be impossible on a normal scooter - Kaabo scooter push the boundaries of what's possible

Our Story

"KAABO" focus on "high-power" electric scooters. Since 2016, the electric scooter market has become increasingly competitive After 7 years of development, Kaabo has accumulated more than 25patents, especially in terms of how to maintain the stability and safety of the vehicle under high speed and long battery life. We have obtained a lot of practical data to ensure the quality of the product.

 Please read the user manual carefully.

Do not use the product until you understand its functions.

Do not rent the product to anyone who can't operate the product.


*For the first time, the user should use it with a slow speed' for safety.


WOLF KING GTR user manual


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Before Reading Manual

This manual contains important information to help you to use your product moresafely. For safe use, it is marked as Danger',Caution' and Warning depending on the degree of danger and the meaning is as below.

 **Danger:** Indicates a hazardous situation that could be a result of serious injury.

 **Warning:** Indicates a potentially hazardous situation that could be a result in light injury.

 **Caution:** Indicatesa potentiallyhazardoussituation that could be a result in seriousinjury.

 **Caution:** If the scooter is moved from low temperature environment (-20C) to room temperature environment (10C), don't power on it within one hour to prevent scooter is damage

Before Reading Manual

*Even if the it is within the warranty period, you may be liable for any accident caused by any of the following

1. Be careful of water!



This product and components are not waterproof. Don't let the water get into the product and components.

*Never use it, if the road is wet due to the rain, snow, hailstone.

*If you wash or spread water to electric devices, it can result in malfunction or fire.

2. Beware of folding and spinning parts!



If parts of the body, as a finger or hair, get caught in the spinning or folding parts of the product, this may lead to severe injuries. Please be careful.

3. No acrobatics



Stunts and jumps such as jumping and dropping are prohibited as they can cause a great impact on the product and can cause malfunction and accidents.

4. No companion boarding



This product is intended for one adult only, so children, infants, or two people are prohibited from boarding.

5. Don't tune by yourself



Do not open or tune the electric parts (battery, controller or motor system).

6. Comply with the related laws



Unlicensed, driving after drinking, loading cargo on the scooter is prohibited. (More than bike or bicycle license is required) Please comply with the Road Traffic Act and related laws and regulations according to the place of use.

7. Beginners and seniors are encouraged to use at low speed



Beginners who are not accustomed to use the product, seniors and others should avoid high speed mode driving and recommend low speed driving. In addition, please use after practice how to ride safely in a wide place.

8. Do not sudden brake with front brake



If there is a risk of overturning, sudden deceleration should be done safely. Do not apply any unusual behaviors or artificial forces, such as stopping with your feet.

9. Do not accelerate downhill



Slow down at downhill. When reducing the speed, to prevent brake overheat, use the brakes properly to reduce the heat on.

10. Do not drive on steep slopes



Acceptable grade ability is different for each product. Excessive hill roads exceeding the specification may cause damage to the product parts due to temperature cut, over current or low voltage cut, which may cause the product to malfunction.

11. Safety warning when lifting the product



If the product is lifted by holding only the handle, there is a possibility that the product may be damaged due to deformation of the folding part due to load or movement of the product. When lifting the product, be sure to hold the product's body (footrest) with one hand and hold the handle with the other hand so that you do not get hurt in your back or knees.

12. Be sure to wear safety equipment



For the safety of passengers, be sure to wear a full face helmet and the other protective gear (knee, elbow, hand, upper body) and do not wear shoes such as slippers, high heels that interfere with driving.

2) Precaution before driving

1. Night driving should be avoided in any case, be sure to wear helmets and other guards (knees, elbows, hands, upper body, etc.) and drive safely.
2. Select the mode that suits you and drive. In order to cope with the sudden situation, exercise to slowdown to hold the brake at all times.
3. When turning left / right, slow down to avoid danger of overturning or slipping, And then slowly turn safely.
4. To go to backward, it is safe if you getting off from the product after stopping before moving.
5. It is prohibited to use in a slippery place, a crowded place, a steep slope, roads with a risk of accident, uneven road.
6. When crossing a pedestrian crossing, get off from the product for pedestrian safety.
7. Do not drive in a threat any other means of transport, such as animals, pedestrians, bicycles, motorcycles, cars, etc.
8. If you pass the speed bumps and obstacles, be sure to slowdown.
9. When decelerating or braking, do not stop with using foot, but stop with using brake appropriately.
10. Be careful that there is a risk of burns due to heat from motor and brake (especially disk rotor) after driving.
11. It is prohibited to drive with all the way by holding the handle with one hand.
12. Do not ride or drive when the kick stand is down.

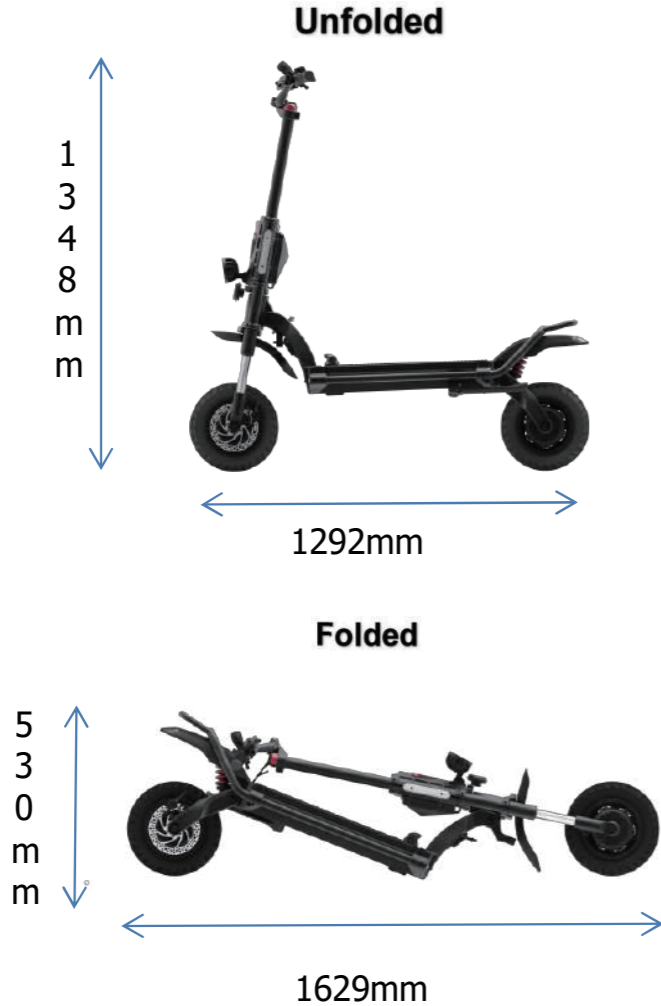


Product structure

Electric wiring diagram

As the drawing is too large and space is limited, please refer to the last two pages for details.

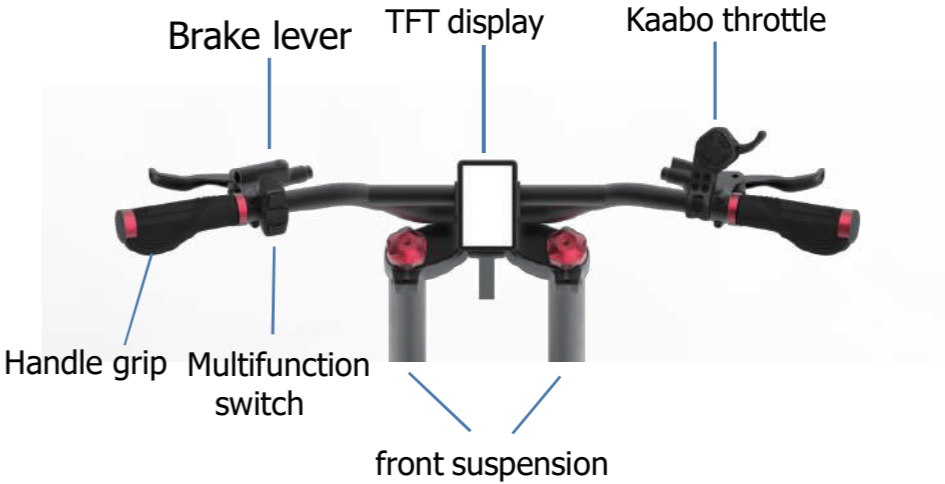
Product size



* Errors may occur depending on the measurement method.

Name of each part

Handle



Body frame



Product components



Top :

1. Default battery charger(2A),
2. Default tool,
3. User manual,
4. Labeling,
5. Body(Lithium battery included)



Ejecting the product number.

Caution

Do not hold the handlebar only when lifting the product from the box. Please be careful that the fixing slide of the folding part may be damaged, and a safety accident such as a part of the body may be caught.

Therefore, when lifting the product, it is necessary to raise the handlebar first, and then slowly lift the body (footrest) of the product with both hands and do not damage the folding part



Check the instrument screws are tightened

Spring-adjustable front motor suspension (Dual stem)

Through the two regulating valves on the front suspension to adjust the soft and hard degree of the front suspension, clockwise turn the control valve damping spring tightening, counterclockwise turn the control valve spring loose.



How to use the product

Damping-adjustable rear suspension

Through the red adjustment knob on the rear suspension to adjust the soft and hard degree of the rear suspension, turn the adjustment knob clockwise to adjust the damping, the suspension harden, turn the adjustment knob counterclockwise to adjust the damping, the suspension becomes soft. There is 18 gears in total to meet different customers' requirements.



1) Production folding



1. Raise the handle post (Steering tube)

Release the locking clamp, raise the locking slide upwards, raise the handle post, then lower the locking slide downward.



2. Locking the folding parts

Tighten the finishing screw properly to lock the clamp, so that the locking slide is firmly fixed in any direction, and check for looseness during use.

How to use the product

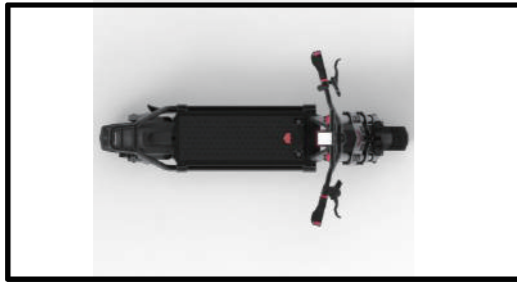
2)How to start



Step1. Turning on the main switch

When turning on the product, you can start driving by turning on the main power switch first (when using the built-in battery) and turning on the power of the LCD panel. When driving is finished, turn off the LCD panel and turn off the main power.

* The power of the instrument panel will turn off automatically after a few minutes of inactivity. At this time, the LED lamp is also turned off, so turn it off with the LED lamp button when you turn it on again, and turn off the main power switch after use.



Step2. Stance for driving

After tilting the kickstand, find a stable position on the footrest and then hold the handle grip comfortably. Be careful not to raise



Step3. Acceleration and deceleration

Acceleration can be performed by using the throttle of the instrument panel while driving, and the deceleration or stop can be performed by holding the brakes on the handle.



Caution

Before driving, be sure to check the folding part, the handle part, the part where the main fixing part of the product is fastened well. And check the position of the fixing slide, the QR lever locking status and the folding part fixing status.

Throttle malfunction caution

Regardless of whether the throttle is operated or not, the motor sensor may continue to operate, causing malfunctions such as sudden acceleration. In this case, holding the brake lever to cancel the operation. This phenomenon may be caused by corrosion of the throttling, immersion of the throttle, disconnection of the magnet, broken off levers, and breakage of the spring. Do not bounce the throttle lever strongly.

How to use the product

3)How to stop

if the product is lifted by holding only the handle, there is a possibility that the product may be damaged due to deformation of the folding part due to load or movement of the product. When lifting the product, be sure to hold the product's body (footrest) with one hand and hold the handle with the other hand so that you do not get hurt in your back or knees.



Set the use and strength of the electronic brake among the detailed functions of the instrument panel before driving. When the brake lever works, the electronic brake works together to increase the braking force.

Tip:Check for safe braking

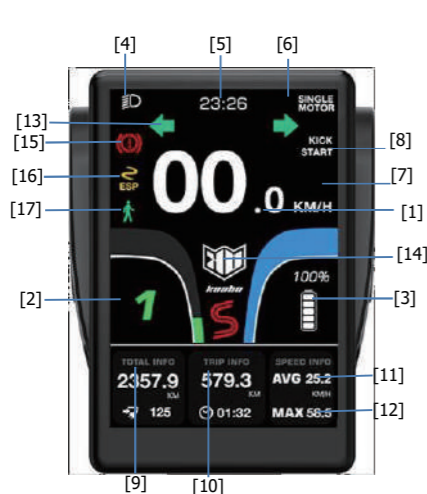
For safe braking, check whether the brake lever and disc caliper connection (wire damage, external breakage, etc.) are damaged before and after driving, and check brake wear and looseness of brake inner core (Inner wire). In the case of hydraulic brakes, it is also necessary to check the oil leakage or deficiency and always check that the braking force is sufficient.

Due to various factors such as road surface condition and speed, it may not be possible to stop when brake is operated as expected. The electronic brake and ABS functions are auxiliary functions to further increase the braking force and used. The user should understand the function and expect the operation timing when use this function.

4)Product folding



How to use the instrument panel



- 1.Speed
- 2.Gear(ECO model, P mode, speed mode)
- 3.Battery power
- 4.Voltage
- 5.RTC clock
- 6.Single/dual motor
- 7.Cruise mode
- 8.Kick start
- 9.Total mileage
- 10.Trip mileage
- 11.Average speed
- 12.Maximum speed
- 13.Left and right turn signal
- 14.Turn red when S gear open
- 15.Brake power sign
- 16.Anti-skid mode open identification
- 17.Pedestrian mode sign

Setting	Comment
UNIT	Switch between km and mile, and the system setting is km
Set TME	Adjustable system time
Backlight	Screen brightness, five gears to choose
Auto Sleep	Auto sleep,optional 5 / 10 / 20 / 30 minutes
S MOOD	Open and close S-gear mode, only on dual motor mode
Password	Power on password, can set whether to open, and change the password
ESP	In the setting interface, customers manually open and close, open the display,the sign is shown. open "S" gear,this function will be closed.
Display Info	Display version
Advance Setting	See the table below for more details
Reset	factory setting reset

Pedestrian mode: Press the M key " twice to enter pedestrian mode, switch the gear and return to the state before entering the pedestrian mode, the display show pedestrian model when scooter enter this model, and the maximum speed is kept within 6km / H, and the side light flashes at 0.5 HZ until remove the mode;

P mode (packing mode) : Short press " ↑ "button or pinch the brake to remove the "P gear", the setting will maintain as the state of the last time the scooter is shutdown;

Note: For a detailed description of the TFT display, see the TFT display specification.

Instrument setting

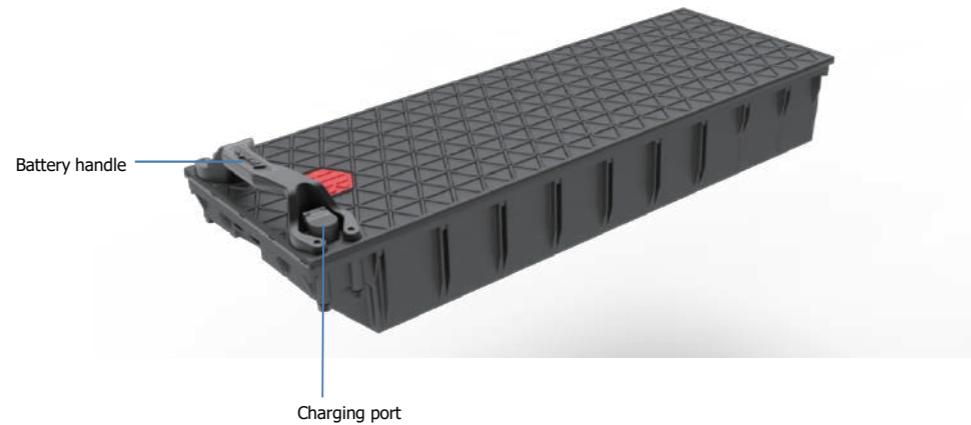
PSETTINGS					
Wheel Diameter	The range that can be set is: 8-14, the setting of this scooter is 12				
Speed Limitations	To limit the speed, the range can be set is: 0-100%, the setting of this scooter is: 100%				
Speed Magnets	Pole logarithmic setting, please do not change, the setting of this scooter is: 30				
ABS	Anti-lock braking system, which can be switched on or off				
Kick Start	Kick start, which can be switched on or off				
Cruise Control	Cruise Control, which can be switched on or off				
Temp Protection	Temperature protection, please do not change, the setting of this scooter is: 120°C				
System Voltage	The system voltage can be set to 48V / 60V / 72V, please do not change it, the setting of this scooter is : 72V				
Low Voltage	Minimum voltage, please do not change, the setting of this scooter is : 58V				
Assist Ant Mode (Please operate under the guidance of a professional person)	Level 1	Speed Limitation	E-ABS	FM/RM - Current Ltd	FM/RM - Acceleration
		25%	Level1	20A	Level 1
	Level 2	Speed Limitation	E-ABS	FM/RM - Current Ltd	FM/RM - Acceleration
		45%	Level2	30A	Level 2
	Level 3	Speed Limitation	E-ABS	FM/RM - Current Ltd	FM/RM - Acceleration
		65%	Level3	35A	Level 3
	Level 4	Speed Limitation	E-ABS	FM/RM - Current Ltd	FM/RM - Acceleration
		80%	Level4	45A	Level 4
	Level 5	Speed Limitation	E-ABS	FM/RM - Current Ltd	FM/RM - Acceleration
		100%	Level5	50A	Level 5
Cruise Control: Cruise control allows you to maintain your driving speed automatically without continuing to hold down the accelerator. In order to enter Cruise Control, First, you need to turn on cruise control or long press the ↓ button to turn on cruise control.					
While driving: keep the accelerator steady for 3-5 seconds until Cruise Control kicks in and scooter travels at a constant speed without driver holding down the accelerator. When you activate the brakes, Cruise Control will be canceled.					
CAUTION: Ride in a position where you can immediately access the brake to cancel Cruise Control if necessary.					

Instrument style



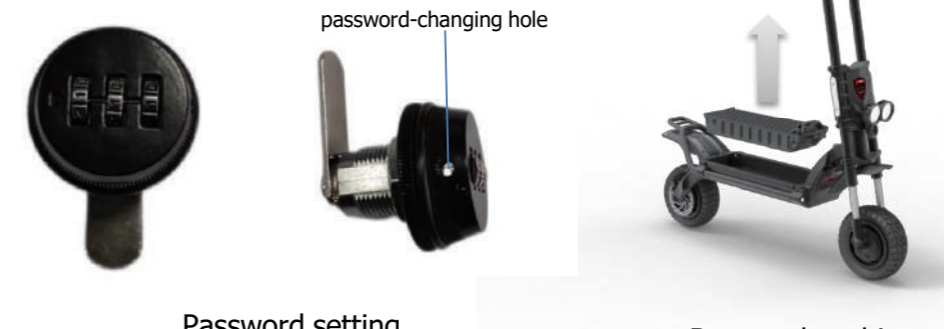
Detachable Cell

1) Battery parameters



Detachable portable battery	
Supplier	SCUD
Cell mode	INR21700-M50LT
Nominal voltage	72V
Nominal capacity	33.6AH
Battery voltage range	57V~84V
Service temperature	-20°C~45°C
Factory voltage	>75.4V

2) The password setting and battery detaching



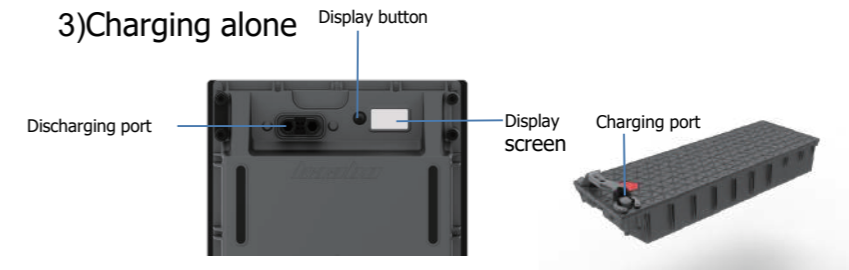
Password setting

There is a password-changing hole under the password lock. When the password lock is open, use a small stick to press against the hole, do not release, and then change the password, let go after completion, the password change is completed. Lock the password and mess it up. The initial password of the lock is 000.

Battery detaching

Open the lock of the fixed battery, hold the handle of the battery, lift the battery up, the battery can be directly separated from the car body, convenient to take the battery out to charge separately.

3) Charging alone



Press the display button, you can see the current power level and voltage of the battery separately.
When charging alone, the charging port is connected to the charger, and the charging animation will appear at the battery display screen, which facilitates users to watch the power and voltage of the battery in real time.

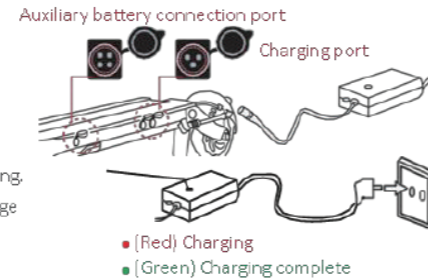
4) Battery dormancy

If the battery is not used for a long time (over 7 days), the battery automatically enters dormancy mode to protect the battery.
The battery needs to be charged to activate it if enter dormancy mode.

How to use a charger correctly

1) Basic charging method

1. Open the charging port cap and connect it to the connector of the charger and connect it to the household outlet.
2. Charging status indicator
3. Be sure to close the charging port cap when driving or storing except when charging.
4. When connecting the connector to the charging port, metallic sparks due to voltage difference may be splashed, but this is normal



* Failure of the charger and abnormal conditions can cause electric shock and fire. Learn the correct usage and prevent safety accidents in advance.

<p>1. Manufacturers and sellers are not responsible for any problems arising from any disassembly, modification, or mixing with other chargers.</p>	<p>2. The charger is forbidden to be used in places subject to high humidity, heat, flammable materials, confined spaces, or where there is no ventilation such as in a car.</p>
<p>3. The charger is not waterproof. It is thoroughly controlled to prevent moisture from entering the charger.</p>	<p>4. Children and pets should not be allowed to approach the charger when they come into contact with them, as they may cause an electric shock.</p>
<p>5. If the charger lamp does not light, charger fall, strong external shock, long time charge, or cable cover damage, discontinue use immediately and contact the service center.</p>	<p>6. Unplug the charger when you are away from the home for long periods of time.</p>

7. Use only genuine charger.

8. Do not insert conductors into the charging port.

9. Do not touch the plug for about 10 seconds after unplugging the charger. There is a risk of electric shock from instantaneous discharge.

10. Do not remove the terminal during charging. Charge the internal circuit of the charger and cause malfunction.

11. Do not operate the product during charging.

12. Charging terminals should be firmly contacted during charging and should not be used if terminals are corroded or damaged.

13. When disconnecting the charger from the product, it is safe to hold the terminal without holding the wire.

14. Charge supplier:



***Short-circuit Caution:** Be careful not to short-circuit the battery because short-circuiting of the battery is very dangerous.

***Over current Note:** The battery of this product is designed to automatically shut off the power supply to protect the battery when the over current is over 100A.

***Low Voltage Caution:** The battery of this product is designed to be automatically shut off when the voltage drops below 48V. Do not use the product in the low voltage state.

Safety precautions for Lithium battery



- 1. Care** Lithium batteries should be protected from direct exposure to children and pets.
- 2. Performance**
 - ① Lithium battery is affected by external temperature. In winter, when the temperature is low, the performance of the battery is temporarily deteriorated and the mileage and power output is reduced.
 - ② Lithium battery has a characteristic that discharge performance is reduced by more than 15% when charging /discharging 300 times or more. If usage time is shortened due to long usage, it should be replaced with a genuine one through the nearest point.
 - ③ Charging
 - ① Lithium battery should be used only with genuine battery and charger supplied from the manufacturer. Any problems caused by use of battery made by the manufacturer, mixed use, or using the charger are not covered by the manufacturer.
 - ② Charging the lithium battery with a non-genuine charger may cause malfunction or fire.
 - ③ The lithium battery should be charged in a well-ventilated, dry place and around the charger in a place where there is no inflammable material.
 - ④ Lithium battery should be charged at 0 ~ 40 C and discharged within -20~ 50 C. Charging or discharging at a temperature outside this range may cause malfunction, fire or explosion.
 - ⑤ In case of moving from cold outside to warm indoor, please charge it after 1 ~ 2 hours. This is to prevent condensation from occurring inside the product due to temperature difference.
- 4. Storage**
 - ① Lithium batteries should be kept away from snow, rain and direct sunlight. Do not store or charge them in a trunk or hot room. Select a dry place and store at room temperature (10~ 20C)
 - ② When storing for more than 3 months, charge the remaining battery level to 70~80% (do not store full charge).
- 5. Trouble symptom, safety**
 - ① Lithium battery should be discontinued immediately if it is damaged or leakage of battery, sour odor, appearance deformation, etc, and contact the place of purchase to get technical support and service.
 - ② If overheat, smoke or ignition is detected in a product with lithium battery, immediately stop charging and use, move the product outdoors as soon as possible, and then use a fire extinguisher to resolve. Do not spray water or immerse the product in order to resolve, which is more dangerous.
 - ③ Lithium battery pack has very high energy density, so if you charge the battery for a long time in case of



short-circuit, leakage, bad battery, etc, there is a possibility of ignition. Therefore, you should avoid charging for a long time without a person, and charging must be done while the person is aware that the risk of unexpected fire can be avoided.

- 6. Misuse** If the lithium battery is short circuited or the polarity is changed, or if the battery is impacted, malfunction or fire may result. If you think that the battery has been impacted, you should stop charging and using it and visit the nearest point for inspection.
- 7. Water inflow** It should be controlled to prevent water inflow into the lithium battery. There is a risk of fire or electric shock if the charger is connected while moisture is present.
- 8. Caution** Disconnect the battery from the main unit and prohibit recharging, reinstalling, or using other applications.
- 9. Disposal** When disposing of the lithium battery, the battery should be separated from the product at the point of purchase or near the point so that the charge and discharge terminals are not short-circuited. Dispose of it as industrial waste when disposing of it.

Product Specification

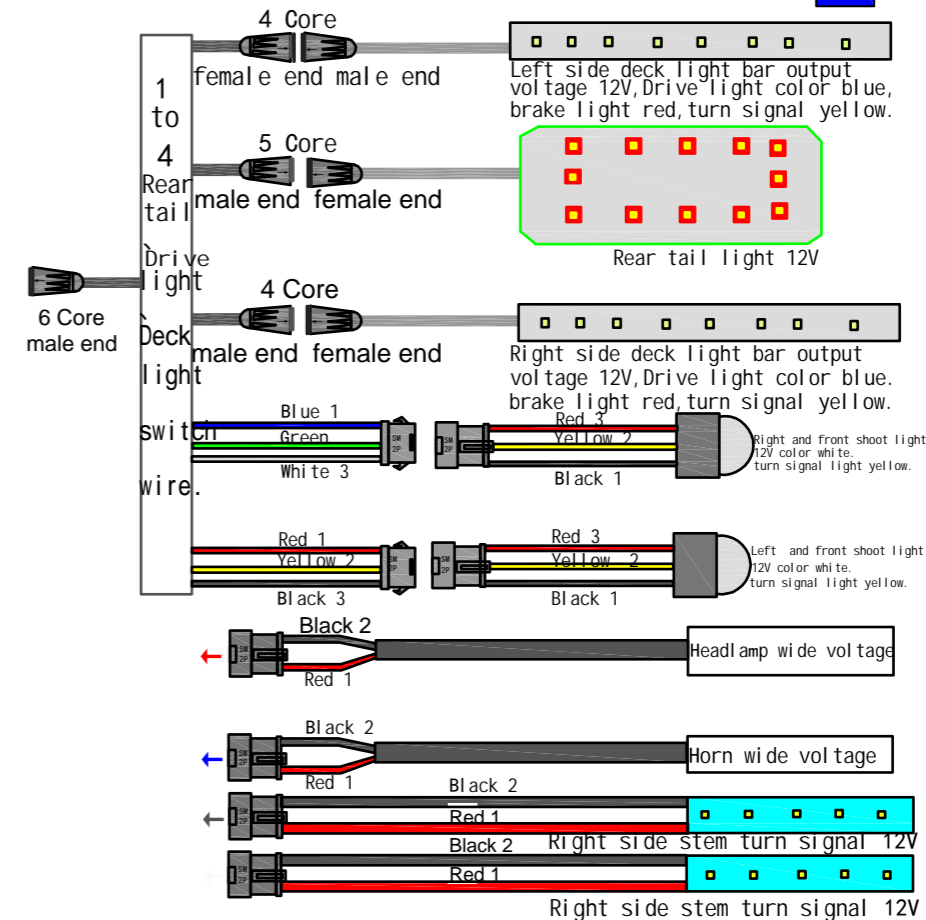
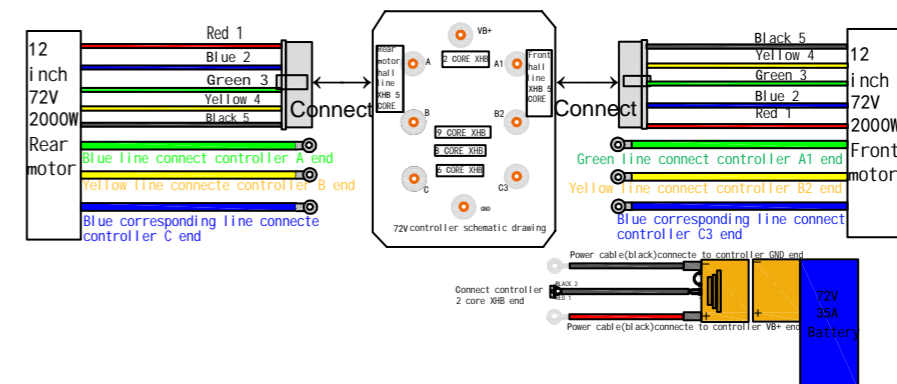
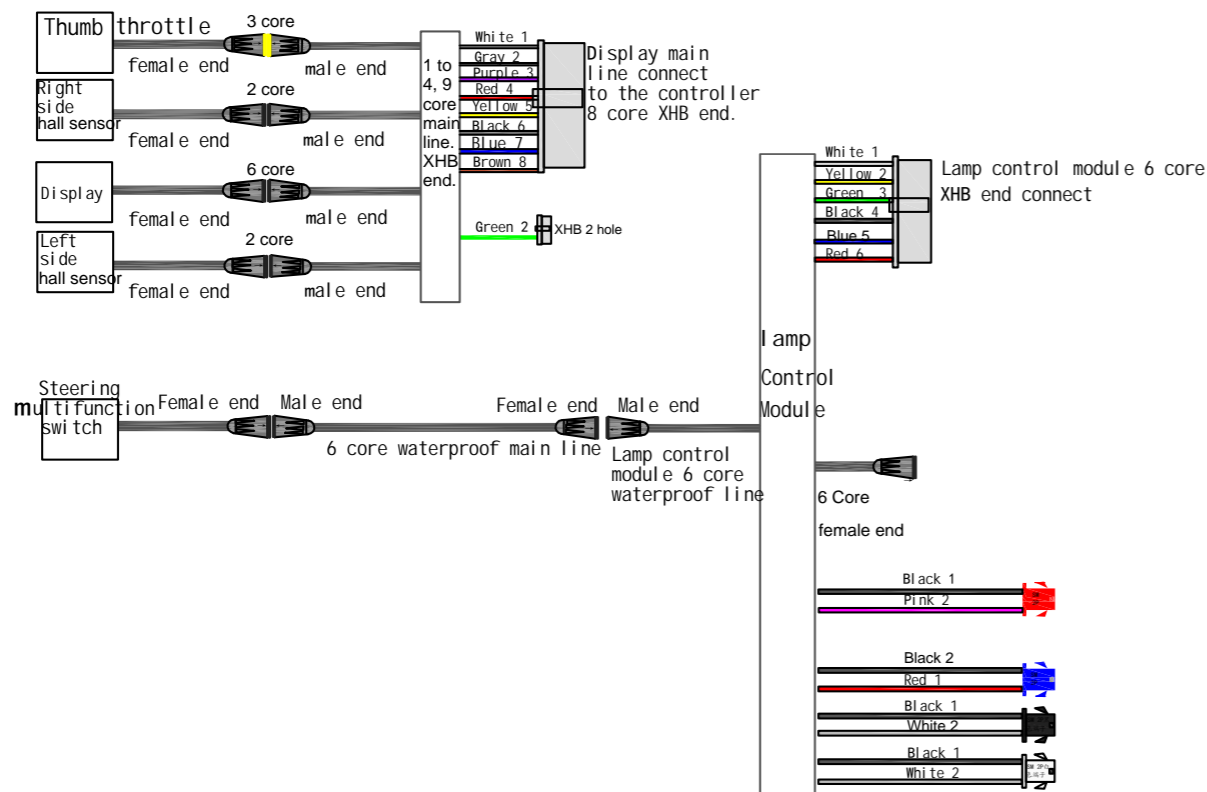
 WOLF KING GTR	
Product category	EN 17128 CLASS 2
Configuration	72V 35AH Portable battery ★
Color	
Battery Type	21700
Battery Capacity	INR21700-M50
Motor	2000W X2
Max Speed	25km/h
Max Range	180km(75kgs load,25km/h flat road ride at constant speed,full of electricity,sufficient air pressure)
Climbing Angles	<50°
Max Load	120KG
Charger	84V 2A 1+ 2- (2pcs)
Charging time (use 2AX2)	About 8.5 hours (use 2A X2)
Charging time (use 5A X2)	About 3.5 hours (use 5A X2, Customers are required to purchase 84V 5A chargers)
Shock Absorber	Spring-adjustable front motor suspension (Dual stem) Damping-adjustable rear suspension
Brake	Front and rear hydraulic brake (160) +ABS
Light System	Front and rear turn lights Driving Light LED Chassis light+ LED frond spotlight

Horn	Motorcycle-grade horn
Controller	(sine wave) two-in-one controller
Open Size	1292mm X 748mm X 1348mm
Floding Size	1629mm X 748mm X 530mm
N.W.	63KGS
G.W.	72 KGS
Tyres	12 inch vacuum run stability control tyre (CTS)
Display	TFT display +kaabo accelerator
Litterae Credentias	IPX5 CE(EMC MD LVD) ROHS FCC
Product Material	handle, frame, bar material:6061- t6 aluminum alloy and6082- t6 aluminum forging;Cover pp; Shaft scm440;
<p>Upgrade point from the previous generation :</p> <ol style="list-style-type: none"> 1. Higher waterproof grade, IPX5 2. Add front and rear turn lights and driving lights. 3. Adding an electronic control box, battery, and electronic control system separation, the cables will be simpler, more convenient for after-sale, the capacity of waterproof will be better. 4. Controller current increases to 50A, motor maximum power increases to 8400W. 5. Sine wave configuration, add TFT large screen display, new UI design (more beautiful. Intelligent), all kinds of working state can be displayed. Internal parameters: front and rear power, front and rear start torque can be adjusted by itself. Front and rear motor power, temperature monitoring, can DIY you driving mode. 6. Double model and ECO mechanical switch to add light to indicate working state. 7. WOLF KING GT handle and shock absorber rod lengthened, more suitable for European and American people riding. 	

*The specification can be changed by manufacturer without notice to improve the quality and safety for users.

*The distance can be affected by loaded weight, wind direct (wind speed), road condition, slope and tire condition.

Electric wiring diagram



Operate steps:

- 1, Connect to the controller A, B, C end, corresponding line, hall line. Connect in color order, A, B, C end match 5*8mm screw. Torque 2.5
- 2, Connect to the controller A1, B2, C3 end, corresponding line, hall line. Connect in color order, A1, B2, C3 end match 5*8mm screw. Torque 2.5
- 3, Connect the main line in order color, plug in 6 core XHB end in controller.
- 4, steering multifunction switch 6 core waterproof end plug in lamp control module 6 core end.
- 5, Rear tail light cable connect to the 5 core male end, turn signal light wire*2 connected.
- 6, Headlamp and horn plug in lamp control module.
- 7, take headlamp and horn wire plug in lamp control module.
- 8, Power cable(black) connect to controller GND-end. Power cable(black) connect to the controller VB+ end. match 5*8mm screw, Torque 2.5

Note and check items:

- 1, All waterproof wire end plug in it, check whether are loose. Gently pull to confirm tight.
- 2, Battery end and the motor end are fixed to the controller end with torque 2.5.
- 3, All the cable end confirm are correct, Apply appropriate amount of hot melt glue to prevent loose.
- 5, Smooth all the wires and secure them with cable ties. Squeeze part of the cable into enough space. Looks all are clean and no mess.
- 6, All cables should not be broken, crimped, or damaged.

WARNING – Risk of Fire and Electric Shock – No User Serviceable Parts

AVERTISSEMENT - Risque d'incendie et de choc électrique - Aucune des pièces ne peut être réparée par l'utilisateur
Personal e-mobility devices are not intended for use at elevations greater than 2000 m above sea level.
Prolonged Exposure to UV Rays, Rain and the Elements May Damage the Enclosure Materials,
Store Indoors When Not in Use

1. Please don't ride scooter on street, to avoid be punished by traffic police.
2. Please check your scooter weekly and stop use it if it is with problem.