HANGPAI

e- motorcycles

LANGUAGE/EN

- XFS01

(EN) USER'S MANUAL

CLICK HERE 1-14

COC documents CLICK HERE

2025/06-10

HANGPAI

e- motorcycles

LANGUAGE/EN

vie - XFS01

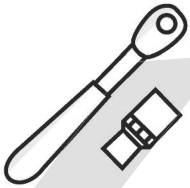
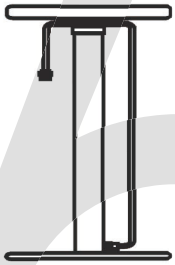
NOTICE:

Before you start assembly:
Inspect the shipping container for significant damage. Then remove all packing material and components from the box.

Before mounting, make sure that the main circuit breaker is off.

Estimated time required for installation:
· Allow at least 30 minutes for installation.
· 6-10 hours should be enough to charge the battery (in no case should it recharge more than 14 hours).

Assembly tools (not included):

			
Wrench No. 15 .	Torque wrench with ratchet, extension bit, extension No. 8, 10, 12, 14, 17	Phillips screwdriver	Hand pump

HANGPAI

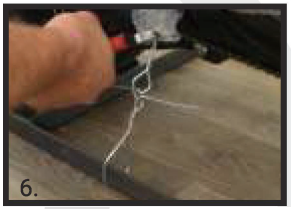
MAIN COMPONENTS OF THE ELECTRIC SCOOTER

INSTALLATION INSTRUCTIONS

Each electric scooter was carefully assembled and inspected before leaving the factory. You have to install the pedals and rear view mirrors. Follow the installation instructions. Tools Required: Key; hex key; screwdriver, etc. Each package includes a set of installation tools.

1. UNPACKING THE E-MOPED

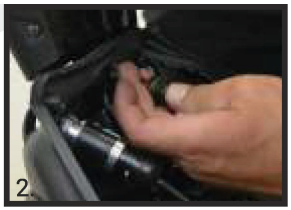
1. Remove the protective paper wrapper.
2. Unscrew the four side metal rods.
3. Cut the securing plastic tape from the construction.
4. Remove the front wheel.
5. You will find a package with a set of keys and a remote control on the surface of the carrier holder.
6. Remove the securing wire at the bottom left.



7. Loosen and then slide the shaft rod with the axle delimiting rollers out of the front fork. This will release the XFS01 from the metal structure.
8. Slide the XFS01 out of the structure.
9. Carefully remove the protective plastic film.
10. In the step area you will find the packed front steering column cover, front fender, trunk.
11. In the storage compartment under the seat, you will find a rechargeable battery, rear-view mirrors, mounting screws and a user manual.

2. INSTALLATION HANDLEBAR

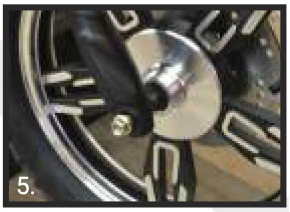
1. Unscrew the bolt with washer and nut from the steering column.
2. Attach the handlebar model to the steering column.
3. Connect the steering column from the front with the removed screw and washer.
   On the other side, place the nut on the screw and tighten with a torque wrench.
4. Fit the front steering column cover and secure it with two screws

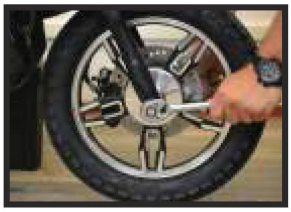


3. INSTALLATION FRONT WHEEL

1. Prepare the front wheel with shaft and spacer rollers. The roller shaft was removed in part 1 (7).
2. Pass the shaft through the left fork and insert the SMALL spacer roller into the inner space between the fork and the brake disc. When changing the rollers, the wheel cannot be put on!

3. Fit the wheel so that the brake disc is on the left.
4. Insert the shaft rod through the wheel and insert the LARGE spacer roller and slide the shaft rod through the right fork.
5. Then fit the washer with the nut and tighten with a torque wrench.





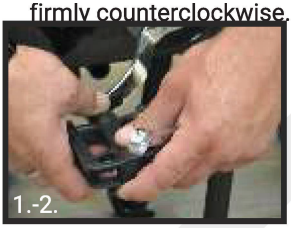
4. INSTALLATION REAR SUITCASE

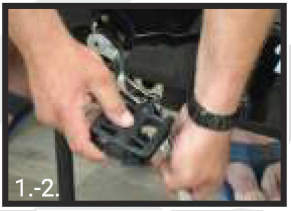
1. Place the suitcase on the holder and fasten it to the bottom of the holder with four screws.

5. INSTALLATION PEDAL

Warning: Do not overtighten, as the handles are made of aluminum alloy.

1. The right pedal (marked "R" on the pedal shaft) must be mounted on the crank on the right and tightened clockwise.
2. The left pedal (marked with the symbol "L") is mounted on the crank on the left and tightened firmly counterclockwise.





7. INSTALLATION MIRROR

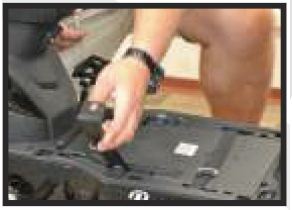
1. Screw the mirrors into the hole at the top of the handlebars.
2. After screwing in the mirrors, tighten the nut with wrench No. 14.
3. Slide the free end of the rubber cover so that it covers the nut and aligns with the handlebars.

Warning: Before driving, adjust the mirrors so that you have a good view behind you.

8. CONNECTION ELECTRIC SCOOTER

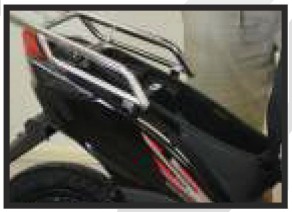
1. Uncover the rubber cover of the step and unlock the latch lock with the key.
2. Open the battery latch and pull it out with the textile tapes on the battery.
3. Connect the battery with the connector and slide it back into the step compartment.
   Never connect the battery connector with the circuit breaker on (always keep it off)
4. Flip the battery latch and lock the lock.
5. Replace the rubber step cover.







6. Open the seat and switch on the circuit breaker.
   Turn the ignition key and start E-FICHTL. Check the functionality of lights, pointers, zavor.




⚠ **When standing for a long time, we recommend disconnecting the battery or turning off the circuit breaker. Our machine is equipped with an alarm with remote start and it has a constant consumption. It is therefore possible to discharge the batteries below the critical limit during long-term standing.**

8. CHARGING THE BATTERY

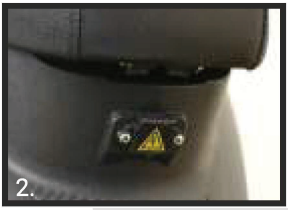
The battery can be charged in two ways..

First charging method:

1. Remove the battery from the step section, bring it to an electrical outlet and start charging.

Second charging method:

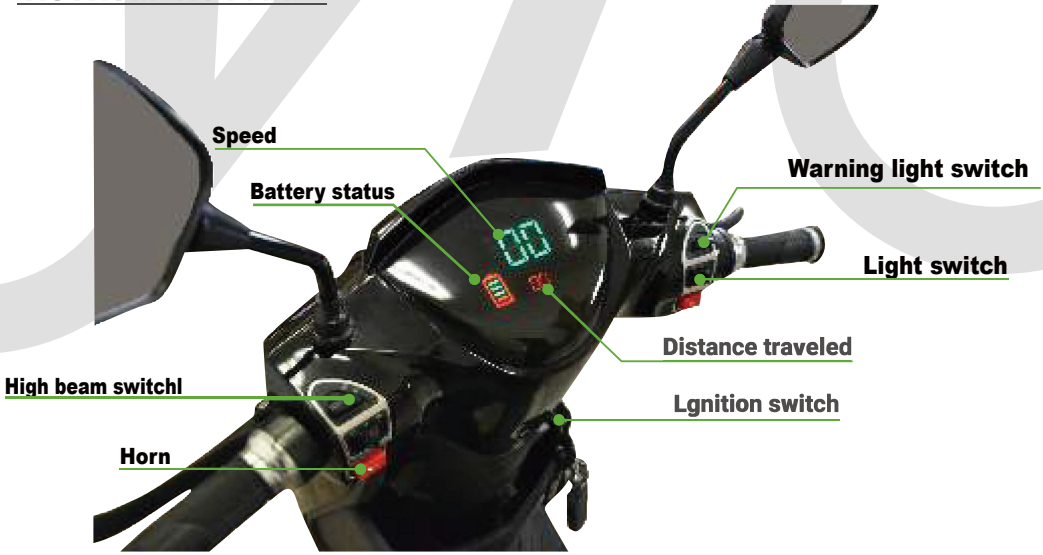
1. Into the charging hole, which is located on the outside under the seat above the rear fender. This external socket allows you to charge a locked motorcycle without unlocking or unfolding the seat. The condition is that the circuit breaker is on.



9. SWITCHING THE ELECTRIC SCOOTER

1. Switch on the main circuit breaker of the electric scooter.
2. Then place the key in the ignition and turn it to the "on" position.
   The electric scooter can also be switched on twice by pressing the remote control (see the description of the remote control).

INSTRUMENT PANEL



WARNING !

- **Store batteries in a dry, warm environment.**
- **Keep the batteries charged at all times.**
- **If you park in an outdoor or cold environment, the battery must always be charged, otherwise it will be irreversibly damaged.**
- **If the scooter is not used for a long time, the battery will self-discharge, so it is recommended to check the battery condition continuously so that the voltage does not drop below the critical value when the battery can no longer be charged.**
- **Any claims concerning a battery damaged due to such improper treatment will not be acce ted.**

GENERAL INSTRUCTIONS

We would like to thank you for purchasing your electric scooter. You are now one step closer to a new mode of transport that is fast, fun and environmentally friendly. Your electric scooter is equipped with standard security features and a sound alarm system with remote control *. Please read this guide carefully before setting out on your first journey. It is essential that each user of this product is fully aware of the safety risks associated with the operation of this product on the road. We wish you a pleasant journey.

COMMENTS: In this manual, you will find basic information about your electric scooter, its safe operation and maintenance.

This product is continually being improved and we would like to ask you to be lenient if you notice minor changes to this manual when you buy the product.

We recommend that you do not modify any technical parameters of your electric scooter.

WARNING: Read and follow the safety instructions in this manual. For your safety, never misuse, incorrectly install or modify the main components and always remember the slogan "Safety first"!

Warning: This product cannot be used for downhill races, stunts, ruthless driving or aggressive off-road driving.

WARRANTY: The warranty period of the machine is 24 monts, the warranty on the battery is 6 months.

CHARGING INSTRUCTIONS

• Use only the charger designed for this electric scooter (never use a charger from another model). Before charging, set the switch to the OFF position and remove the key. Use the charger in a dry and well-ventilated area.
• The charger is for indoor use only. Protect the charger from water to avoid short circuiting. Do not use in wet, flammable, or explosive environments. Do not remove the plug by pulling the cord, always grasp the charging port by the metal body.
• First, plug the charger's output plug securely into the battery receptacle, and then insert the input plug into a power outlet. The charger indicator lights up to indicate that charging is in progress.
• When the light changes from red to green, it indicates that the battery is fully charged. Typically, it will take approximately 6-10 hours for the battery to fully charge. If you have time, it is recommended to charge it for 2 more hours after the indicator light turns green. (This will positively affect battery life).
• When the green light is on, the charger is in a maintenance charging state. If you are away for a long time, you should remove the charger plug, especially in hot weather.
• The charger heats up during charging, so keep it away from heat. Always keep the charger dry and clean. The electronics inside are under high voltage, so never disassemble it yourself.
• After charging, first unplug the power plug and then remove the output connector from the battery. Do not leave the charger plugged into a battery or wall outlet for an extended period of time as this may damage the charger and cause a fire.
• Keep the charger out of the reach of children while charging. Do not place anything on the charger or allow any liquid to come into contact with the charger.
• The first 10-15 charges are unstable, the charging time can be up to 12 hours, and the charge indicator on the scooter display can show a partially discharged battery. After formatting the battery, everything will be fine
• Furthermore, the battery is protected by its own fuse 30A, which is stored from the side of the plastic battery pack and secured with a plastic screw cap.

CHARGER

XFS01 can be charged:

1. Remove the battery from the step section, bring it to an electrical outlet and start charging.
2. Disconnect the battery in the step section from the power connector, connect the charger and charge.
3. The XFS01 has, underthe front seat, a connector for connecting the charger, when charging however, the main circuit breaker in the seat section must be active.

There are 2 diodes on the charger, the first red lights up whenever the charger is in the mains, the second signals charging. After connecting the charger for charging, the first red indicator light comes on immediately and then the second, first green and then, when everything is OK, red. When fully charged, it will glow green again.

SAFE DRIVING

• Follow the Road Traffic Regulations. Do not transport other persons on this electric scooter.
• Read this manual carefully and make sure you fully understand it and that you are able to drive the electric scooter before heading out on the road.
•Do not lend the electric scooter to anyone who is unfamiliar with how to operate it.
•Check regularly thatthe battery is properly charged.
•Check the condition of the brakes before each journey. If necessary, adjust them carefully to make sure theywork properly. Brake early and always reduce your travel speed when it rains or snows
•Always hold the handlebar with both hands.
•Drive in such a way that no limbs or other objects come into contact with the chain or wheels
•Do not touch the battery charging connector with a wet hand, wrench, or other metal object, as this will damage the battery pole and cause a short circuit.
•Wear bright colors when driving at night to be clearlyvisible to drivers of other motor vehicles.
•Only one person can drive this electric scooter, 2 for a shorttime, but the maximum load is 125kg
•Do not drive under the influence of addictive substances, alcohol or medication that could affect your ability to operate a motor vehicle.
•Do not drive in poor conditions, such as uneven, wet or unpaved surfaces.
•If possible, do not drive in poor weather conditions, poor visibility or if you are very tired.
•This electric scooter can be operated in rainy weather, but its control unit, motor or other electrical devices must not be submerged in water. This could cause a short circuit and could result in an accident
•Never use spray water to wash your electric scooter to avoid its electrical components getting wet (battery connector, motor, control unit, cables, handlebar controls, etc.)
•This electric scooter must not be driven by persons under 15 years of age.

DRIVING DIRECTIONS

Check before driving for the first time:
Before leaving the factory, an escooter exit check was performed - but check the following before driving for the first time:
First, make surethe battery is fully charged and correctly positioned
Checkthe front and rear brakes and make surethey work properly
Check the tires and make sure they are well inflated
Check that the front and rear wheels are properly secured
Check the pedals to make sure they are properly secured and that all lock nuts and bolts are tightened properly

Driving:

First turn the ignition key to the “ON” position. You will see the battery charge level on the battery status indicator.

Pointer location:

[H]:The battery is sufficiently charged

[L]:The battery is not charged enough

The position of the pointer in the red box indicates that the battery is low and needs to be recharged.

You can then easily start the electric scooter by turning the throttle handle (anti-clockwise). Accelerate gradually, do not attempt to reach maximum speed immediately, which would overload electrical components and battery. Gradual acceleration saves both battery and engine.

The brake has the function of cutting off the power supply. If one of the brakes is pressed, the power supply is automatically cut off and the motor is switched off.

Using the parking brake or releasing the throttle automatically cuts off the power to the engine. However, you should avoid attempting to use the throttle at the same time as braking to avoid overloading the engine.

The electric scooter control unit is equipped with an overvoltage protection. If the battery is running low and you are going uphill or against a strong wind, the surge protector will limit the speed. If you can use the pedals in such a situation, this will help the electrical system function properly.

This electric scooter is also equipped with low voltage protection. If the battery is running low and the accelerator pedal is still used, the battery may be seriously damaged. Therefore, in this case, the power supply is automatically cut off.

Attention: If the ignition key is in the "ON" position and the driver moves the throttle handle, the e-scooter will move! Do not put the key in the ON position until you are ready to go. After starting, accelerate slowly and smoothly and do not attempt to reach maximum speed quickly, otherwise electrical components may be damaged. If you push the e-scooter, turn off the power supply to avoid accidentally moving the throttle handle and causing the e-scooter to move unexpectedly, which could cause an accident. Use the brakes wisely and only when necessary.

Battery Level Meter: If the battery level decreases and the indicator goes to [L], you should turn off the battery and fully charge the battery as soon as possible.

Notes: Do not expose the electric scooter to sunlight or rain for long periods of time, as this could negatively affect the operation of some electrical components.

Special note:

If you frequently use the brakes or if you start and stop the engine frequently, if you are driving upwind or uphill, or if you exceed the permissible weight of the load, this will affect battery performance and range. If you want to positively influence the range, follow thesetips:

a) Turn the throttle handle continuously to increase the speed gradually

b) Do not braketoo often - only when necessary.

c) If possible, do not start or turn off the electric scooter too often.

d) If you want to start, it is always best to do this only after moving the electric scooter a bit

MAINTENANCE

ATTENTION:
To carry out maintenance, first switch off the electric scooter and remove the ignition key.
Regular check:
Regularly check the condition of your electric scooter and make regular checks for proper tire inflation, check the sensitivity of the brakes, tighten all components, and make sure they do not make any unusual noise or abnormal noise when driving.
Brake adjustment:
Proper adjustment of the brakes will promote the correct operation of the warning lights and increase driver safety:
The brakes are adjusted in a similar way to each normal wheel. It is important that the brakes work properly and that the electrical disconnect devices are in working order (cable to the brake levers). There is a micro-adjustable rear drum brake nut that allows you to very easily adjust the response of the brakes to the push.
Once the brakes are set, turn the wheels to see if there is any chafing. Also make sure that if any of the brakes is pressed, the power cut function will be activated and the motorwill stop.
Lubrication:
To ensure the long life of your electric scooter, the following components should be regularly lubricated every 6 months:
Front axle; chain; rear axle; the idle, front fork and other moving parts must be lubricated only with grease and the brake must not be filled with grease at all.
Electrical components do not need to be specially cleaned as they have been lubricated at the factory. If any defect is found, contact an authorized service center.
Cleaning:
The electric scooter should be cleaned with a damp sponge, but care should be taken to avoid electrical parts coming into contact with water (battery connection, engine (rear axle), electrical cables, handlebar controls, etc.). Dry with a cloth.
Do not use a strong stream of water when cleaning the electric scooter. Use cloth to avoid short circuiting electrical components. Your electric scooter is durable and does not require waxing. If necessary, clean with a mild detergent and rinse aid to restore its original shine.

TROUBLESHOOTING

PROBLEMS	POSSIBLE CAUSES	SOLUTIONS
If you turn the switch to the ON position, the battery indicator does not light. The engine is not working, there is no power to the electric scooter.	The battery is completely discharged. The battery connection cable is loose. The fuse is blown. The circuit breaker is in the OFF.	Charge the battery. Secure the cable. Replace the fuse. Set to ON.
Battery connected. If the throttle is moved, the engine is not working or its maximum speed is limited.	Battery charge too low. Problem with the throttle. The motor wiring is loose.	Fully charge the battery. Replace the throttle handle. Contact service.
The driving distance becomes shorter.	Insufficient battery capacity. Aging battery. Tires are underinflated. Frequent braking, uphill or against the wind driving.	Fully charge the battery. Replace the battery. Inflate the tires. Use pedals more often.
The charging indicator does not light up when charging.	The connection cable has come loose. The fuse is blown. The charger is damaged.	Secure the cable tightly. Replace the fuse. Replace the charger.
Other problems.	Problems with electrical components.	Contact an authorized service center.

HANGPAI

Service:

Tel:0086 18968095100

e-mail:sales07@hangpaiebike.com

For more information:

ZHEJIANG HANGPAI ELECTRIC TECHNOLOGY CO.,LTD

Building 3,No.318,Xinghe Road, Yuyue Town,Deqing County,

Huzhou City, Zhejiang Province

www.hangpai-ebike.com

www.hangpaiebike.com

COMPLETE VEHICLE
EU CERTIFICATE OF CONFORMITY

The undersigned, Ms. Fengying Mo / Manager
Hereby certifies that the following complete vehicle:

0.1. Make (trade name of the manufacturer): YITU

0.2. Type: TDP002Z (CV * Type): N.A.

0.2.1. Variant: 00 (CV * Variant): N.A.

0.2.2. Version: TW02 (CV * Version): N.A.

0.2.3. Commercial name (if available): TW01
(CV * Commercial name (if available)): N.A.

0.3. Category, subcategory and sub-subcategory of vehicle: L1e-A
(CV * Category, subcategory and sub-subcategory of vehicle): N.A.

0.4. Company name and address of manufacturer:

LIHONG INDUSTRY TRADE LIMITED
Room 63, 7/F, Woon Lee Commercial Building, 7-9 Austin Avenue, Tsim Sha Tsui, Kowloon, Hongkong, China

0.4.2. Name and address of manufacturer's authorized representative (if any):

RULYT S.R.O.
5. Kvetna 435, 440 01, Dobromerice, Czech Republic

0.5.1. Location of the manufacturer's statutory plate(s): R, x1065, y95, z300

0.5.2. Method of attachment of the manufacturer's statutory plate(s): By riveted

0.6. Location of the vehicle identification number: R, x375, y5, z400

1. Vehicle identification number: ☆ R6LTDR00AS0000255☆

conforms in all respects to the type described in EU type-approval e9*168/2013*16218*00 (type-approval number including extension number) (CV* type-approval number including extension number) issued on 25, 12, 2023 (date of issue) (CV* date of issue) and can be permanently registered in Member States having right/left-hand traffic and using metric/imperial units for the speedometer.

Hongkong, China
(place)

07/05/2025
(date)

莫凤英
(signature)

General construction characteristics

1.3. Number of axles: 2 and wheels: 2
1.3.1. Axles with twinned wheels: N.A.
1.3.2. Powered axles: R
6.2.4. Advanced braking system: ~~ABS / CBS / Both ABS and CBS~~ / None

Main dimensions

2.2.1.	Length:	1830 mm
2.2.2.	Width:	670 mm
2.2.3.	Height:	1120 mm
2.2.4.	Wheelbase:	1240 mm
2.2.4.1.	Wheelbase sidecar:	N.A.
2.2.5.	Track width	N.A.
2.2.5.1.	Track width front:	N.A.
2.2.5.2.	Track width rear:	N.A.
2.2.5.3.	Track width sidecar:	N.A.
2.2.10.6	Ground clearance between the axles:	N.A.
2.2.15.	Wheelbase to ground clearance ratio:	N.A.
2.2.17	Seat height:	N.A.

Masses

2.1.1.	Mass in running order:	56 kg
2.1.2.	Actual mass:	157 kg
2.1.3.	Technically permissible maximum laden mass:	165 kg
2.1.3.1.	Technically permissible maximum mass on front axle:	65 kg
2.1.3.2.	Technically permissible maximum mass on rear axle:	100 kg
2.1.3.3.	Technically permissible maximum mass on sidecar axle:	N.A.
2.1.7.	Technically permissible maximum towable mass:	
	Braked: N.A. Unbraked:	N.A.
2.1.7.1.	Technically permissible maximum laden mass of the combination:	N.A.
2.1.7.2.	Technically permissible maximum mass at the coupling point:	N.A.

Powertrain

3.1.1.1.	Manufacturer: N.A.	
3.1.1.2.	Engine code (as marked on the engine or other means of identification): N.A.	
3.2.1.2.	Working principle of the combustion engine: ~~internal combustion engine (ICE)/positive ignition/compression ignition/external combustion engine (ECE)/turbine/compressed air~~	
3.2.1.4.1.	Number of cylinders:	N.A.
3.2.1.4.2.	Arrangement of cylinders:	~~LI / V / O / S~~
3.2.1.5.	Engine capacity:	N.A.
1.9.	Maximum net power:	
	N.A. (CV*: N.A.)	
1.10.	Ratio maximum net power/mass of the vehicle in running order:	
	N.A. (CV*: N.A.)	
3.2.3.1.	Fuel type: N.A.	
3.2.3.2.	Vehicle fuel combination:	~~mono-fuel/bi-fuel/flex-fuel~~
3.2.3.2.1.	Maximum amount of bio-fuel acceptable in fuel:	N.A.

3.1.2.1. Manufacturer: Changzhou Dasen Machinery Co., Ltd.
3.1.2.2. Electric motor code (as marked on the engine or other means of identification):
HB48V800W250400120
3.3.3.4. ~~15~~/30 minutes power: 0.8 kW
3.1.3.1. Manufacturer: N.A.
3.1.3.2. Application code (as marked on the engine or other means of identification): N.A.
3.3.1. Electric vehicle configuration: pure electric~~/hybrid electric/manpower electric~~
3.3.5.2. Category of hybrid electric vehicle: ~~off-vehicle charging/not off-vehicle charging~~ N.A.
3.9.2. Maximum assistance factor: N.A.

Maximum speed

1.8. Maximum speed of vehicle: 25 km/h (CV*: N.A.)
3.9.3. Maximum vehicle speed for which the electric motor gives assistance: N.A.

Drive-train and control

3.5.3.9. Transmission (type): W
3.5.4. Gear ratios: N.A
3.5.4.1. Final drive ratio: N.A
3.5.4.2. Overall gear ratio in highest gear: N.A.

Installation of tyres

6.18.1.1. Tyre size designation:
Axle 1: 2.25-14，32F Axle 2: 2.25-14，32F

Minimum Load capacity index:
Axle 1: 13 Axle 2: 28
Minimum speed category symbol:
Axle 1: B Axle 2: B
Recommended pressure:
Axle 1: 225 kPa Axle 2: 225 kPa
Rim size:
Axle 1: 1.6×14 Axle 2: 1.6×14
Sidecar wheel: N.A.

Bodywork

6.20.2.1. Door configuration and number of doors: N.A.
6.16.1. Number of seating positions: 1
6.16.1.1. Location and arrangement: N.A.

Coupling devices

7.2.8. Type-approval number of coupling-device: N.A.

Environmental performance

4.0.1. Environmental step[16]: Euro 5 ~~(3/4/5/5+)~~[4].
4.0.6. Sound level measured according to: N.A.
4.0.6.1. Stationary: N.A. dB(A) (CV*: N.A.)
4.0.6.2. Drive-by: N.A. dB(A) (CV*: N.A.)
4.0.6.3. Limit value for L_{urban}: N.A. dB(A) (CV*: N.A.)

3.2.15. Exhaust emissions measured according to N.A.
3.2.15.1. Type I test: tailpipe emissions after cold start, including the deterioration factor, if applicable:

CO :	N.A. mg/km	(CV*: N.A.)
THC :	N.A. mg/km	(CV*: N.A.)
NMHC :	N.A.	(CV*: N.A.)
NOx :	N.A. mg/km	(CV*: N.A.)
HC+NOx :	N.A.	(CV*: N.A.)
PM :	N.A.	(CV*: N.A.)

3.2.15.2 Type II test: tailpipe emissions at (increased) idle and free acceleration:
HC: N.A. ppm at normal idling speed and: N.A. ppm at high idle speed (CV*: N.A.)
CO: N.A. %vol at normal idling speed and: N.A. %vol at high idle speed (CV*: N.A.)
3.2.15.3. Smoke corrected absorption coefficient : N.A. (CV*: N.A.)

Energy efficiency

4.0.2.	Fuel consumption:	N.A l.or kg /100km	(CV*: N.A.)
4.0.3.	CO_2 emissions:	N.A. g/km	(CV*: N.A.)
4.0.4.	Energy consumption:	35 Wh/km	(CV*: N.A.)
4.0.5.	Electric range:	43 km	(CV*: N.A.)

Conversion of the performance of the vehicle:

8.1. Vehicle appropriate for converting its performance level between subcategories (L3e/L4e)-A2 and (L3e/L4e)-A3 and vice versa: ~~yes~~/no

Additional information:

9.1. Remarks: N.A.
9.2. Exemptions: N.A.