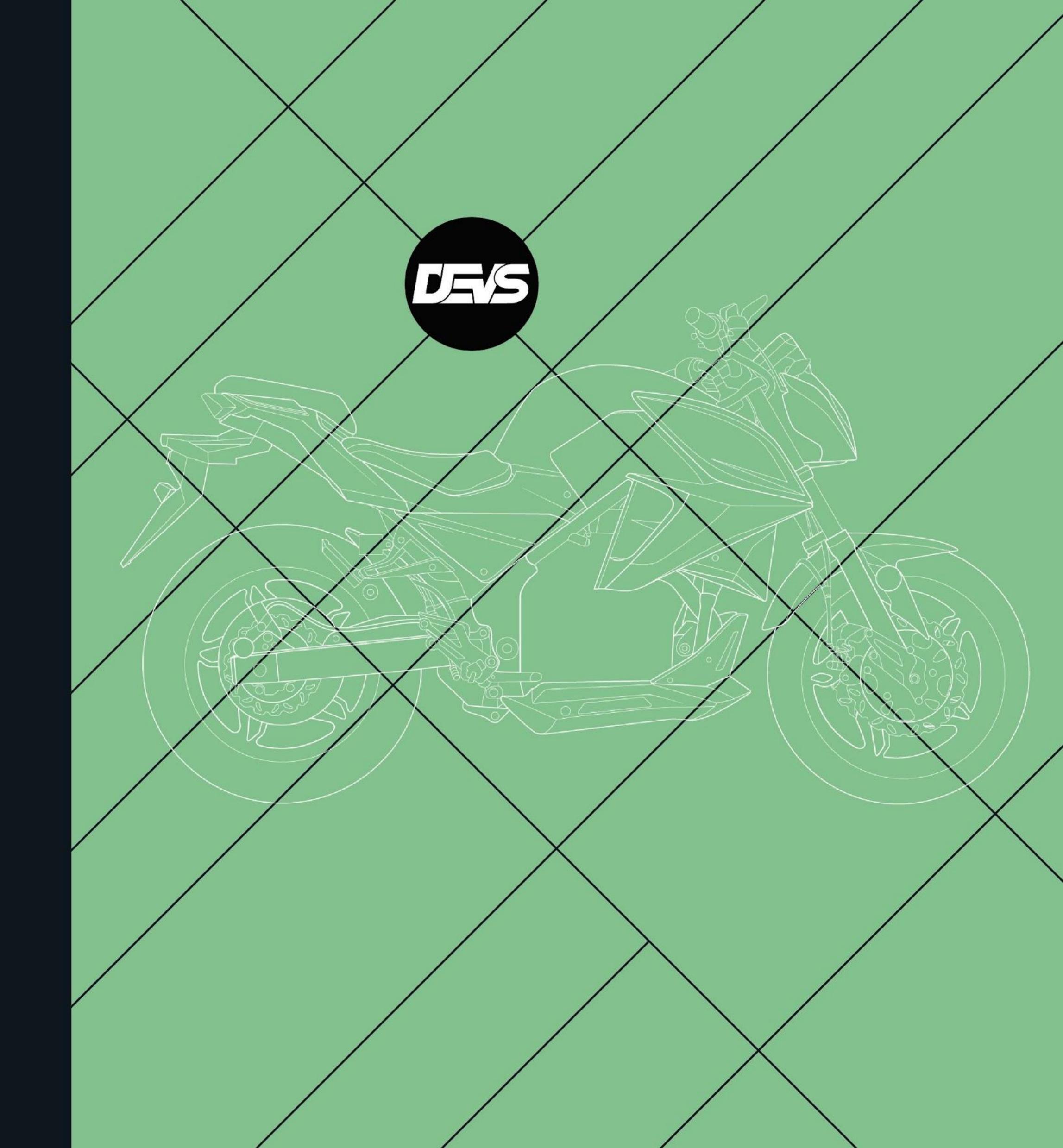
ELECTRIC MOTORCYCLE



Thank you for purchasing your DEVS Type 601.

These operating instructions correspond to the date of printing and are the latest version of the series. It is not possible to exclude minor deviations that arise from further design developments.

All data contained herein are non-binding. DEVS reserves the right in particular to change technical specifications, prices, colors, types, materials, services and service services, design, equipment and other, without notice and without giving any reason is free to remove, replace the local conditions as well as stop the production of a particular model without prior notice. It does not guarantee delivery, differences in illustrations and descriptions, or misprints and mistakes. No part of this publication may be reproduced without the relevant prior written permission. The illustrations used in this use and maintenance manual may not exactly match your vehicle.

This manual must stay with the vehicle at all times. If you choose to sell your 601, please pass it to the new owner.

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SAFETY WARNINGS Read this user manual carefully before riding this motorcycle!

The motorcycle is designed and homologated to the highest standards for road traffic. It is not designed for field use or racing. Please pay attention to the warning labels when touching or disconnecting elements. They are seen for example on the battery charger, battery box and other high voltage areas.

For the safe handling of the DEVS 601, observe these safety instructions in the operating instructions and carefully read this manual.

It is forbidden to remove any equipment or parts of the DEVS 601. Any manipulation of the wiring of the DEVS 601 outside an authorized service center is prohibited. It is forbidden to use the DEVS 601 in an unattended condition. It is forbidden to replace parts of the DEVS 601 with parts not approved by the manufacturer.

Do not operate the DEVS 601 under the influence of alcohol, drugs or medication. Do not operate the DEVS 601 when you are not physically fit and able. Be highly visible at all times. Follow the road rules.

The 601 is designed to carry you and one passenger. When you carry a load or passenger it can affect the stability and handling. Always ride at reduced speeds and observe the limits when carrying loads.

Wear protective clothing, such as a helmet, gloves, suitable boots, trousers and protectors with each ride. Use protective clothing that is in perfect condition and complies with legal regulations. For the sake of your safety, it is recommended that you use the DEVS 601 only whilst wearing suitable protective clothing.

For some operations, special tools need to be used. If you do not have these tools, contact an authorized service center. Components that cannot be reused after disassembly must always be replaced by new ones. Some screws require gluing, follow the manufacturer's instructions when working with them. Components that will be reused should be carefully checked and cleaned. After the service, you need to make sure the 601 is in perfect condition.

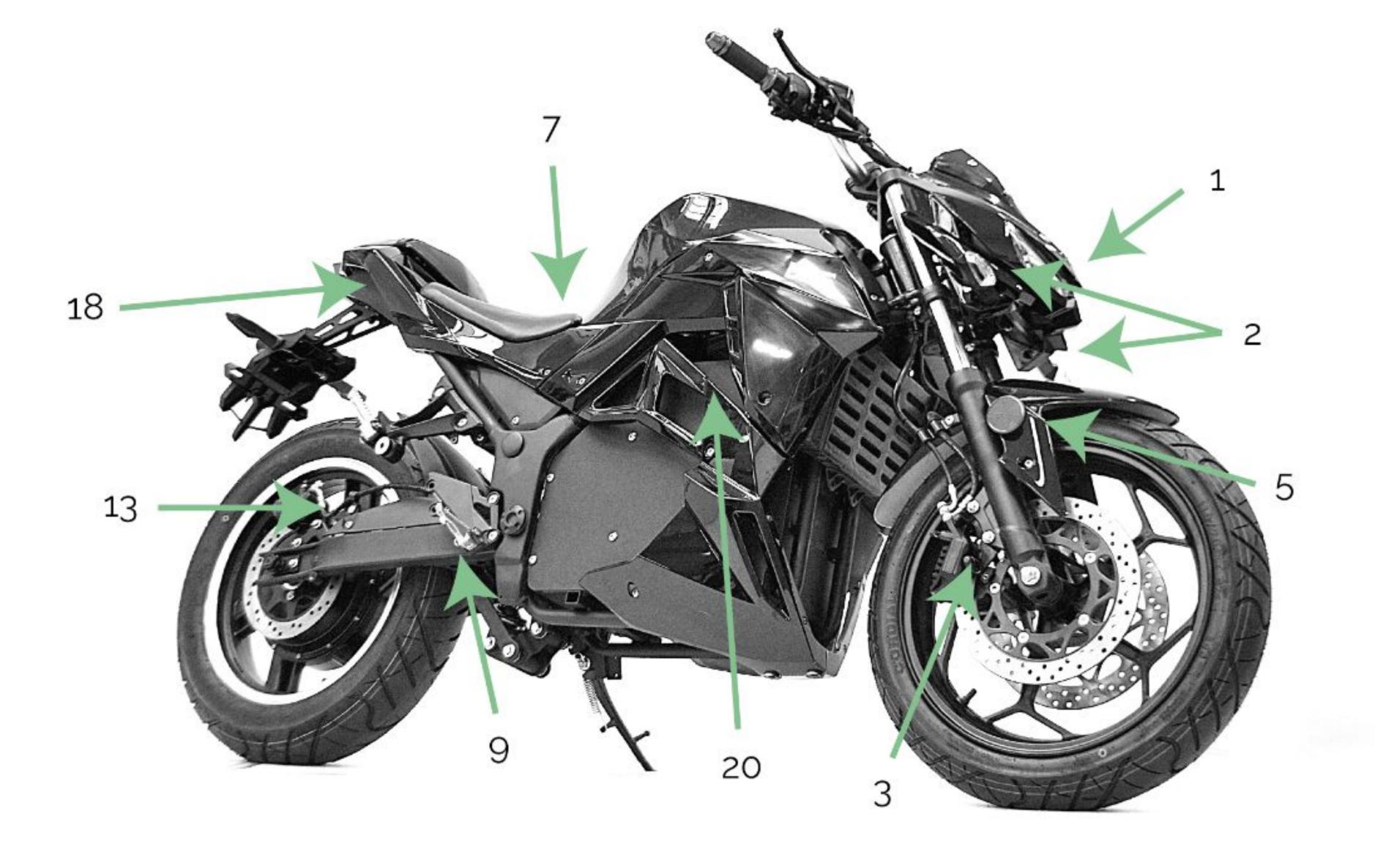
Read these operating instructions before your first ride. It will help you find out how to operate the 601 correctly and make it easy for you to get to know its special features.

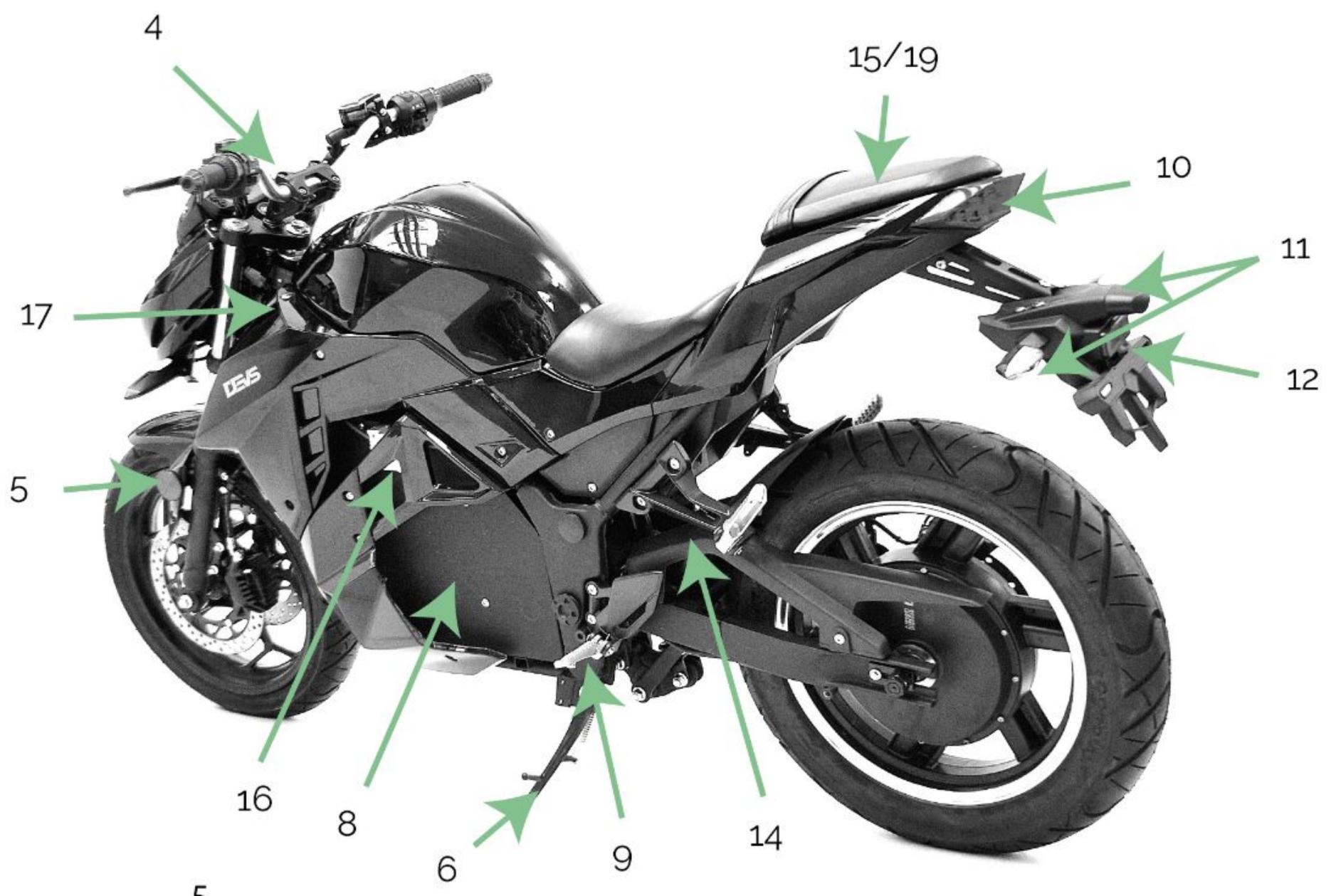
The standard warranty guarantee is covered by the terms and conditions. It will be voided by damage caused by actions contrary to these operating instructions.

For your safety, use only the spare parts supplied by DEVS. Damage arising from the use of third-party products is not a responsibility of DEVS. Removing or modifying your lights other equipment can also make your 601 illegal.

COMPONENT LOCATION

1. Headlight 2. Front direction indicators 3. Front brake 4. Instruments 5. Side reflectors 6. Stand 7. Rider's main seat 8. Battery 9. Rider's main foot pegs 10. Rear position and brake light 11. Rear direction indicators 12. Rear reflector 13. Rear brake 14. Rear adjustable suspension 15. Passenger seat 16. Main 100A breaker fuse 17. VIN plate 18. Passenger grab handle 19. 12V/15A fuse (under seat) 20. BMS control switch





INSTRUMENTATION

1. Air temperature. Use as a reference for the operation of the battery within the stated safe range.

2. Quick reference indicator of battery charge level.

Actual battery voltage. Use as an accurate reference for the remaining capacity of the battery.
 Trip timer.

5. Total kilometers (displayed for 5 seconds after switch on), and subsequently trip kilometers.

6. Speed in kilometers per hour. Use as a reference to the stated road speed limits.

7. Mode selected (currently not used).

8. Warning lights for indicators.

9. Warning lights for high beam.



KEY, LOCK AND ALARM

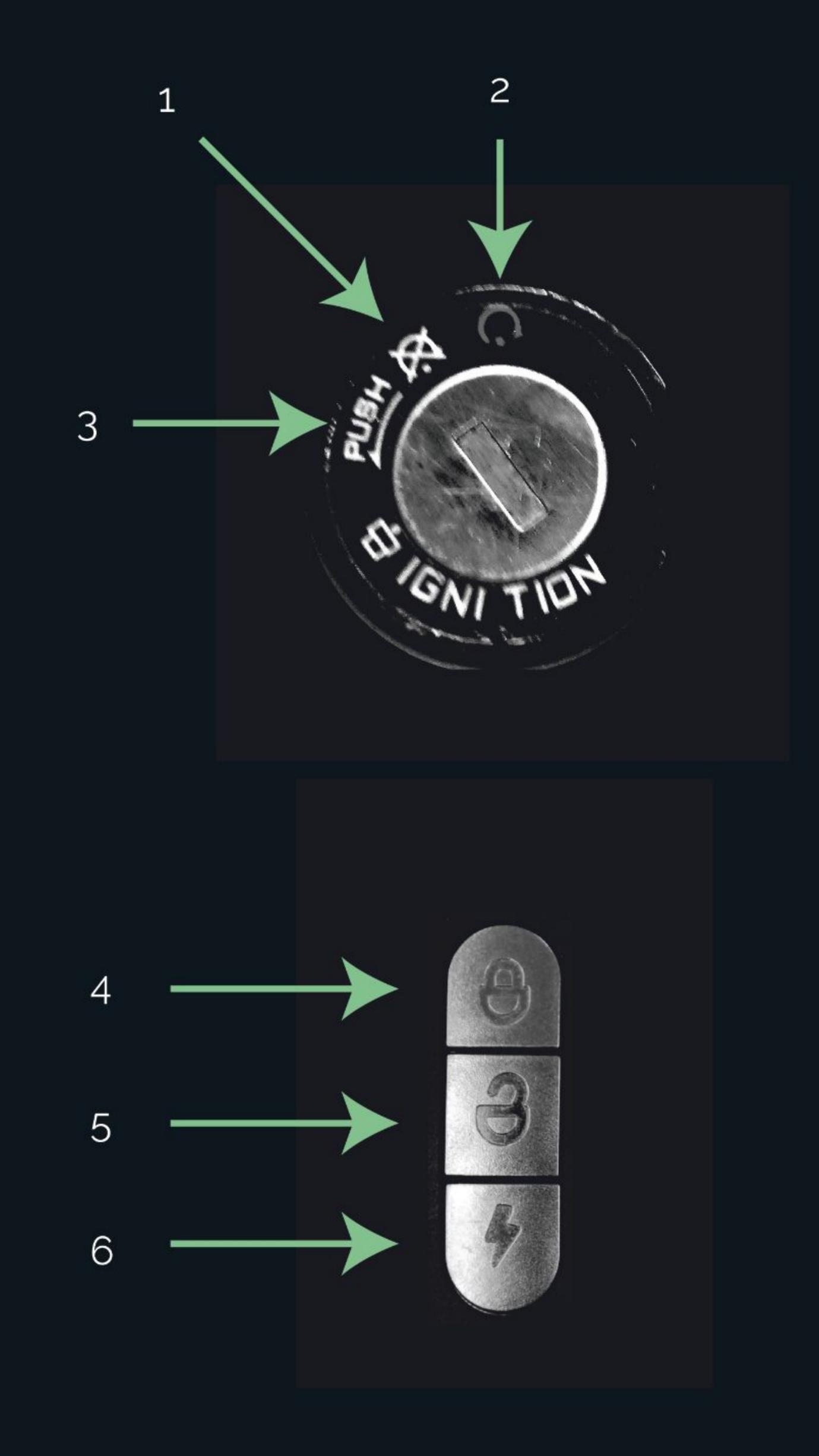
This switch controls the ignition and locks the steering. The various positions are described as below.

- 1. OFF position. All electric system are off. The key can be removed.
- 2. ON position. Used for operating the motorbike. Install the key and turn clockwise. At this position the lights and dashboard will illuminate.
- 3. Steering lock position. With the key in the OFF position, turn the handlebars all the way to the left. Push the key down once, release and then turn the key counter-clockwise before removing. To unlock, install the key and turn clockwise.

4. Activate alarm.

5. Deactivate alarm.

6. Remote start. Turn ON without need for key.



CONTROLS

1. Left lever, operates rear brake 2. Horn switch 3. Headlight switch - dip and high beam 4. Headlight high beam flash 5. Hazard light switch 6. Indicator switch. When the switch is pressed to the left or right, the indicator will blink as appropriate. Depress to switch off. 7. Reverse momentary (red) switch. Hold in to operate in coordination with throttle. 8. Throttle. To accelerate, twist towards you. To decelerate, turn it in the opposite direction. 9. Right lever, operates front brake 10. Programmable control (yellow) switch. Programmed as you wish to activate optional extra function eg the cruise control or low speed mode.



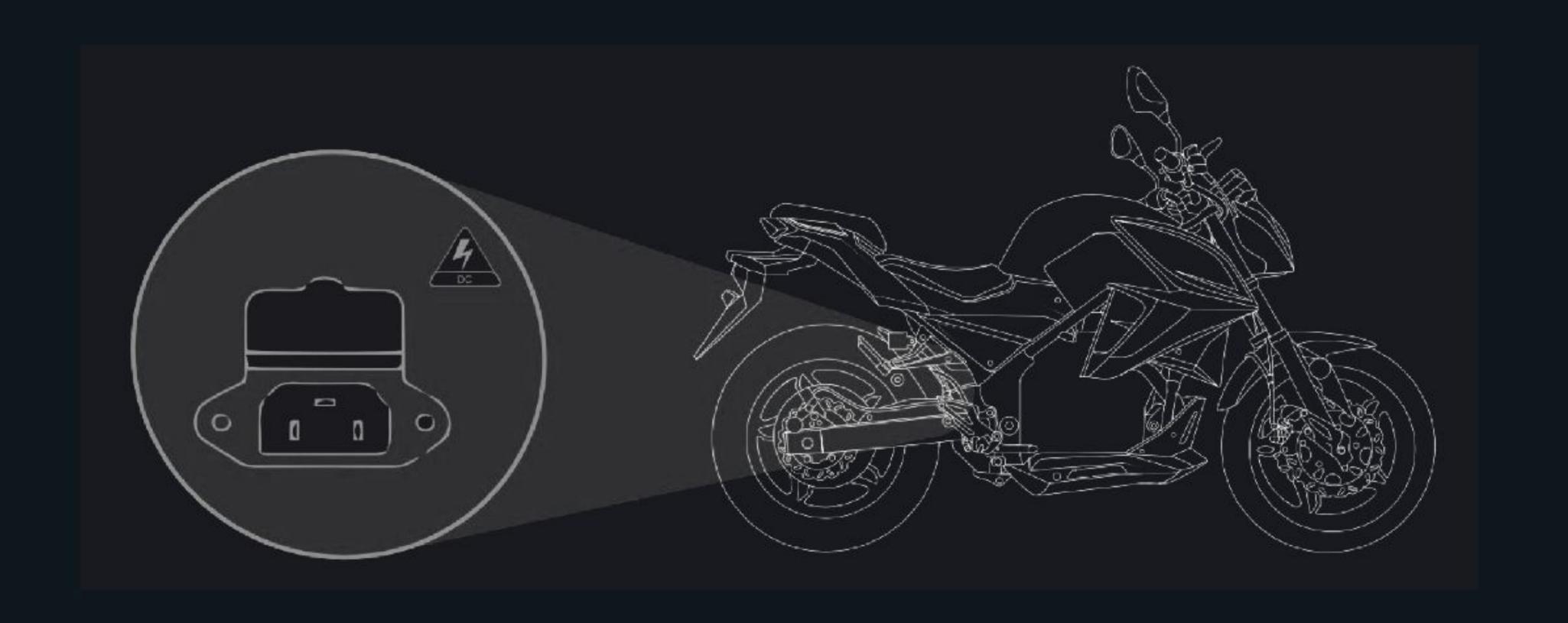
CHARGING THE BATTERY

The charger is built-into the motorcycle and the connection is located on the right side of the body above the foot peg.

Plug the power lead into 220V local AC power supply. When the charger's lead is connected, a cooling fan will start after 5 seconds, warning that the charging process has started.

The standard 0-100% charging time, according to the time specified by the charger, is 4 hours. The ideal room temperature should be 25 ° C. In other environmental conditions, the duration of recharging may vary.

Charging is fully-automated and optimised by on-board electronics. When finished, the charger will cut off power from AC power automatically.





The operating range of the battery is 60V (0%) to 84V (100%) and the charging temperature range is 0C to 45C.



When recharging, put the 601 in a safe place that children cannot touch.



Do not use a charger lead other than the one provided by the manufacturer.



Avoid operating the motorcycle while it is being recharged.



Please only charge it in a dry and well ventilated environment.

BATTERY SAFETY WARNINGS Observe these important points!

The lithium battery is a kind of consumable. The correct use method can extend the life of the lithium battery.

The 601 should be charged immediately after each use when the indicator indicates that the energy is less than 20%. When the battery charge is less than 20% it should not be stored, recharge it immediately.

When using the vehicle, try to avoid that the load drops to o% (protection status), this will accelerate the degradation and shorten its useful life.

When the vehicle is stopped for a long time, store it in a cool, dry place, away from combustible materials. When stored, the lithium battery should maintain a capacity between 50% and 75% and should be checked every 30 days.

All battery cells are controlled within 20 millivolts in their manufacturing process. In half a year, the battery should balance and the cell should balance if there is more than a 20 millivolt difference.

If the battery is depleted, not recharged in time, or stored with a charge below 20%, it may cause degradation and therefore loss of warranty.

Care must be taken when installing or removing lithium battery packs to avoid shocks or drops.

If you find that the battery is deformed or broken, it should be immediately discontinued and placed in an open place away from people and materials.

It is dangerous to disassemble the lithium battery. Go to an official DEVS service. Please read the instructions carefully before charging the lithium battery.

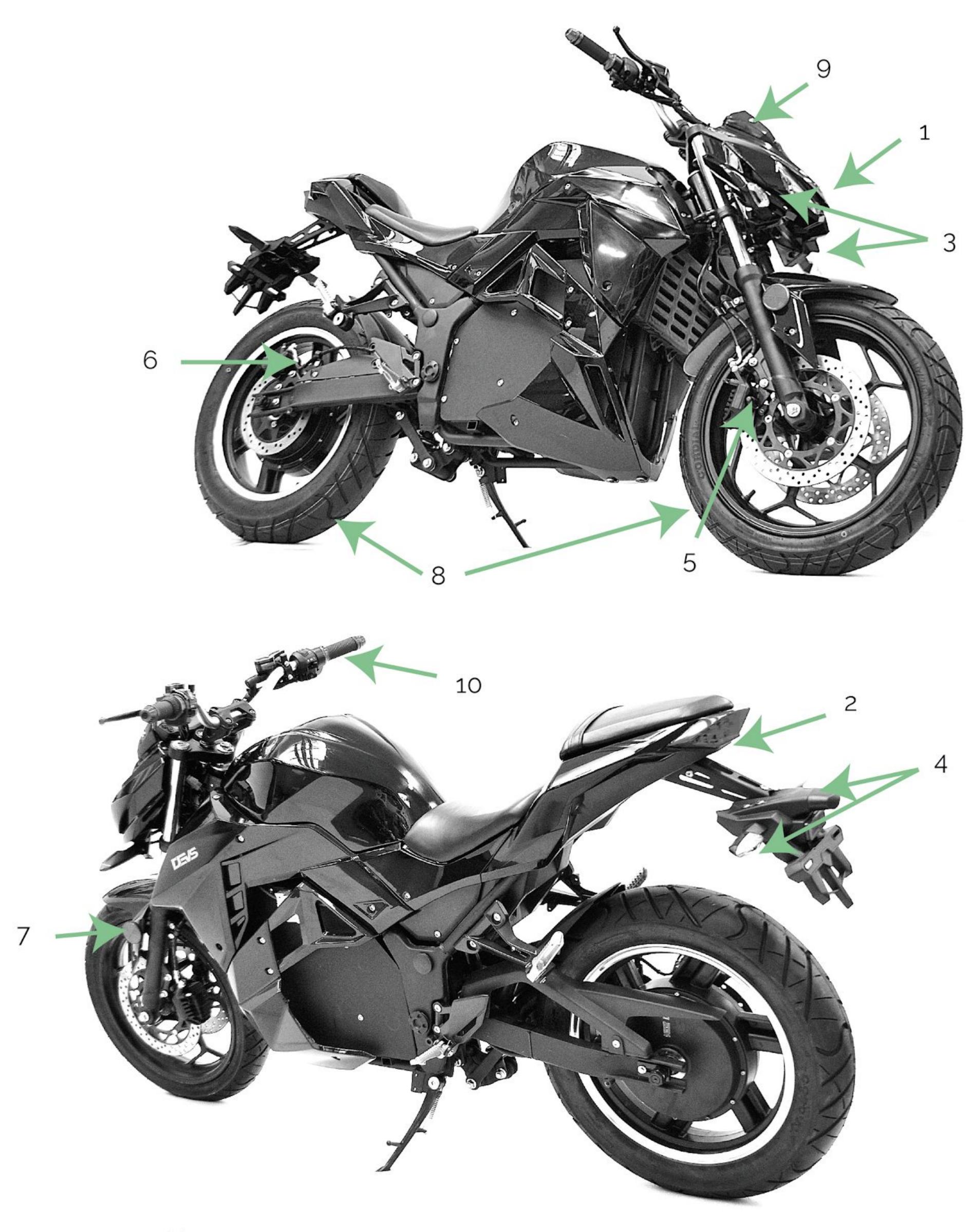
When connecting the charger, make sure the charging plug is properly connected to the charging socket and locked. During charging, make sure the lithium battery and charger are fully vented.

PRE-DRIVING INSPECTION

1. and 2. Activate headlight, tail light and brake lights to verify operation 3. and 4. Activate indicators to test operation and warning light on instrument panel 5. and 6. Inspect brake lines are without leaks and brake pads have adequate depth 7. Check side reflectors not damaged 8. Verify tyres are correctly inflated, have legally required tread depth and without damage 9. Check that the battery is at 100% for the expected distance 10. Twist the throttle grip to ensure it rotates

The condition of a vehicle is the owners' responsibility. The operator should check the vehicle by simple but thorough inspection to prevent the vehicle from serious consequence/accident.

smoothly and returns normally to its starting point



RIDING TIPS

Take your first steps of riding in a safe and spacious area, especially if you are riding a motorcycle for the first time.

Hold the handlebar firmly with both hands, never release either hand from the handlebar unless absolutely necessary.

Do not accelerate when turning the motorcycle unless absolutely necessary.

Ride at the proper speed within safe margins.

If the ground is wet or slippery, you should slow down.

Obey the rules of the road and never exceed the speed limits.

RIDING TIPS

Use the motorcycle's brakes according to the road traffic conditions. Use the front and rear brake simultaneously and evenly, applying the pressure on both axles with the right and left levers.

The higher the speed, the greater the braking distance must be. Be sure to keep a safe distance between your motorcycle and other vehicles.

It is very dangerous to use only the front or rear brake, as the motorcycle may skid or lose control. You must be very careful when using the brake on wet roads and when cornering. Sudden braking on slippery or rough roads is extremely dangerous.

The motorcycle should be parked on level and firm ground. If the motorcycle needs to be parked on a slope, always point it uphill.

ELECTRIC MOTORCYCLE RANGE

The range performance of an electric motorcycle is different from petrol-engine driven or human-powered vehicles. It's very important to understand how the electric 601 works before riding. The range is largely influenced by the driver's weight and the additional load, weather conditions, road conditions, the way it's driven, the number of starts (e.g. on crossings), the condition of tyres (especially their inflation) and battery wear and tear. In extreme conditions, the range can be reduced to less than 50% of the indicated value.

IDEAL CONDITIONS

Flat terrain, constant speed, no full load, no head-wind, correct tire pressure, driver weight<70kg, no payload, approx. 20°C ambient temperature.



LOW SPEED HIGH SPEED

FLAT ROAD HILLY ROAD

FEW STOPS STOP AND GO

GENTLE ACCELERATING FAST ACCELERATING

LOW WEIGHT HIGH WEIGHT

WARM WEATHER COLD WEATHER

NO WIND HIGH WIND

CORRECT TYRES UNDER-INFLATED TYRES

SMOOTH, DRY ROAD GRAVEL WET ROAD



OPERATION

Always perform the entire pre-ride checklist before riding as this can help you spot problems that could interfere with safe operation. Failure to follow this entire checklist before every ride can cause serious injury, and/or property damage to yourself and/or others.

STARTING

- · Sit on the 601 whilst it is still on the side stand. You may hold the handlebars to assist yourself.
- Set the mirrors so that you have a good view of what's happening around you.
- · Activate the ignition with the key. The headlights and instrumentation will activate.
- · Check the battery level is adequate for your journey.
- · Select reverse if needed by holding the reverse button. Reverse gear has limited power to make it easier to control.
- · Lift the side stand with your left foot.
- · Check the road is clear.
- · Accelerate by rotating the throttle towards you. Decelerate by rotating the throttle away from you. The throttle includes a safety spring that snaps the throttle back to end when released.
- · Always ride with a helmet, firmly secured to your head.

STOPPING

- · Release the throttle to end position.
- · Operate the brakes. When braking, always engage the rear brake first to retain maximum control of the scooter. Wet, oily, or sandy roads reduce braking effectiveness. Hard braking on these surfaces is dangerous.
- · If the electronic brake is activated, be aware that this will initiate extra rear wheel braking that must be compensated by applying less force on the left brake lever.
- · After the vehicle is stopped turn off the ignition.
- · Lower the side stand with your left foot while holding the motorcycle upright.
- · Remove the key from the main switch.

SPECIAL FEATURES

STORAGE BOX

Remove passenger seat using the ignition key in the lock under the left side of the seat (1). The maximum load of ported objects is 3 kg. This is useful for storing essentials like the charging cable and puncture kit.

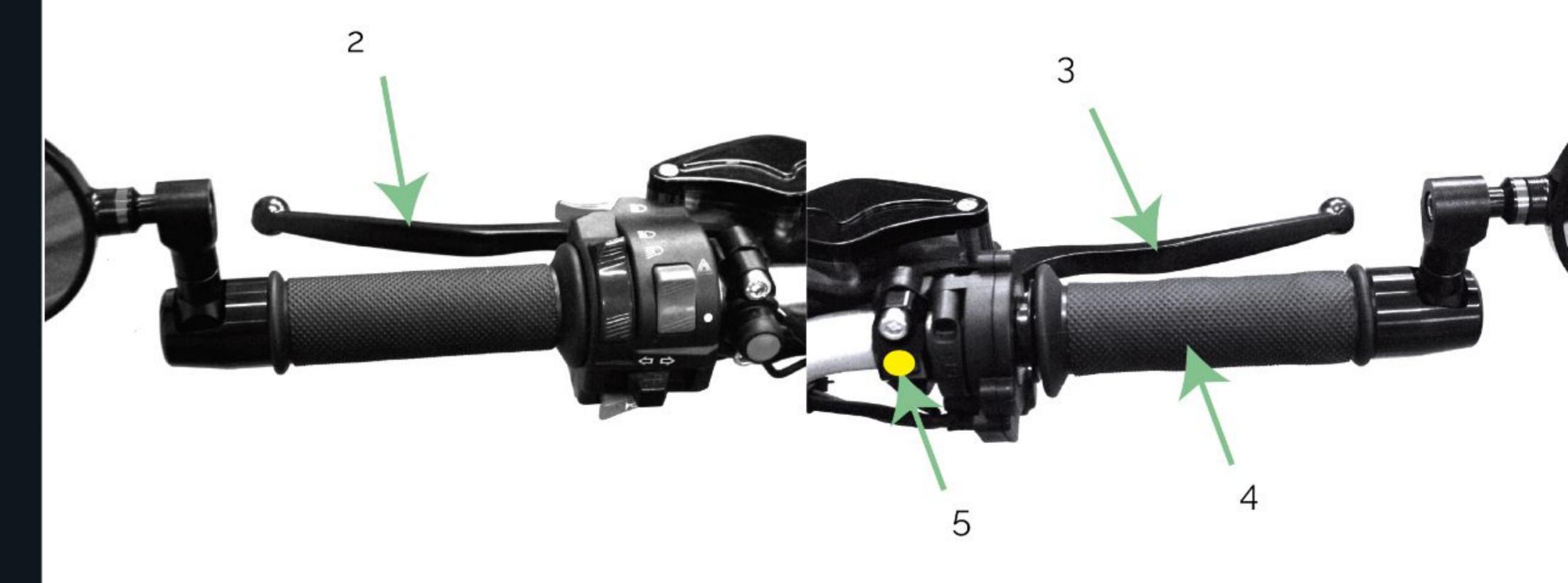
RECUPERATION

Depressing the yellow switch (5) enables the electronic brake, which recuperates energy with the application of the brake levers (2 or 3). This is udeful for extending range.

THROTTLE CUT-OFF

In its default off position, the throttle (4) opens a microswitch to cut off its power. This is useful to quickly disable it in case of a throttle malfunction.





INSPECTION AND MAINTENANCE

Regular maintenance can enhance service life and driving safety. Please refer to the inspection suggestions and take care of your e-motorcycle.

RECOMMENDED PROFESSIONAL SERVICE

The first maintenance should be carried out one month after purchase or after the first 500Km. After the first inspection, maintenance should be carried out to our after-sales services every 6 months or 3000km. Assembly, maintenance and/or repair should only be performed by designated dealers or authorized repair centers for e-motorcycle repairs to ensure quality work

BRAKES	Check braking performance, inspect lines and pads for wear, prevents accidents. Check the front brake lever free play. This measurement must be between 10 - 20 mm. travel.	DAILY
TYRES	Check tyre damage & air pressure, prevents flat tyre or power over-consumption during riding. The control of tyre pressures must be carried out cold. FRONT WHEEL 196 kPa (28 PSI) / REAR WHEEL 221 kPa (32 PSI). Always replace the tyres when the tread depth reaches a limit of 1.6 mm. Increase pressure when carrying extra weight.	DAILY
WHEELS	Check rim strength & remove dirt in bearing, pre- vents rim breaking or jamming.	WEEKLY
SUSPENSION	Check front & rear shock absorbers, remove dirt & maintain lubrication, prevents shock absorber jamming.	WEEKLY
THROTTLE	Check throttle, prevents jamming or occasional failure. Check wire connector isn't loose or damaged, prevents wire malfunction.	WEEKLY
SCREWS	Check screw connectors aren't loose or damage, prevents screw malfunction.	WEEKLY
BATTERY	Check battery cell performance, prevents malfunction & lengthens lifespan. Check whether charger wire is damaged and braking and other connectors complete and reliable or not.	MONTHLY
LUBRICATION	Check wheel axles and brakes if needed to add lubrication or not.	MONTHLY
CLEANING	Surface cleaning.	MONTHLY

SMART APP INSTRUCTIONS

Download APP client software to perform the following functions from your smartphone:

Battery monitoring
GPS tracking
LED lighting control
Motor tuning (for service technicians)

Use the QR codes listed here to find the software for the battery and GPS. You will find a QR code for the LED lighting on its control box under the rear seat.

We also recommend PlugShare APP as a useful tool for finding public charging points.



BMS - ANDROID



BMS - IPHONE



GPS - ANDROID



GPS - IPHONE

TROUBLESHOOTING

Note: If there are other usage and related problems, you can check the content of the help center on the website. If you cannot solve your problem, you can contact us for consultation.

EMAIL FOR SERVICE mail@devs.bike

Check the main fuse is ON and 12V/15A fuse is functional. NO Check the battery level is above the 60V cutoff. **OPERATION** Check temperature is in operational range -20C to 60C. Check the connections are secure. NO CHARGING Check that the battery isn't already full. Check the external temperature is in the allowable range of oC to 45C. Use the APP to check that the BMS is active. Check that the brake is not engaged, which disables the SYSTEMS ARE ON throttle when the yellow switch is turned on. BUT MOTOR IS Check the throttle wiring is intact. NOT WORKING Roll the bike forward and backwards and try again to move. If a 'beep' is heard, check the error code against the list on the next page. THE SUSPENSION Loosen the locknut and adjust the spring tension down to firm or up to soften. IS UNCOMFORT-Check you are not over the allowable weight (155 kg) ABLE Check the 12V/15A system fuse under the rear seat and 12V ACCESSORIES replace if necessary (blade fuse). NOT WORKING Check wiring connections are secure. (LIGHTS, HORN Remove accessory and verify operation from external 12V ETC) source. Some such noise is possible on all motorbike, but it is THE BIKE MAKES more obvious because an electric motorbike is otherwise **A RATTLING** quiet. Assess if the noise shows some part has come NOISE loose. Follow the tips for riding to maximise range. Some decline THE RANGE IS of approximately 20-40% is expected over a period of 5 SHORTER THAN years' of average use. EXPECTED

ERROR CODES When an error occurs, a buzzer will send out information.

When the 601 is turned on normally, the buzzer will sound once and then stop.

If there is a long beep, please check whether the brake and throttle are effective at the same time.

If there are 1 to 15 beeps, judge the fault based on the number of sounds. The fault table is as follows:

- 1 Motor Hall fault. The signal wire between the controller and the motor is not connected properly.
- 2 Throttle failure. The throttle does not return to zero, or the throttle is broken. Note that the fault will be displayed by default when the controller is restarted, and the fault will disappear after the self-check is passed.
- 3 Current protection restart.
- 4 Phase current overcurrent.
- 5 Voltage failure. The voltage is too low or too high, which exceeds the allowable range of the controller.
- 6 Anti-theft alarm signal.

- 7 Motor over temperature. Motor temperature is too low or too high beyond the scope of use.
- 8 Controller over temperature. The temperature of the controller is too low or too high beyond the use range.
- 9 Phase current overflow.
- 10-Phase current zero point fault.
- 11 Phase line short circuit fault. The phase line is shortcircuited, or the motor is faulty.
- 12 Wire current zero point fault.
- 13 MOSFET upper bridge fault. The upper bridge of the controller is damaged.
- 14 MOSFET lower bridge fault. The lower bridge of the controller is damaged.
- 15 Peak line current protection. Hardware overcurrent protection alarm.

TECH DATA

Motor 5000W continuous, 8500W peak Maximum speed 90–100 km / h Climbing 35°

Battery type Lithium NMC Power 72V 7.2 kWh Autonomy 150 km (see graph) Cycles >1000 times

Tyre specification Front: 110/70 - 17 Rear: 140/70 -17

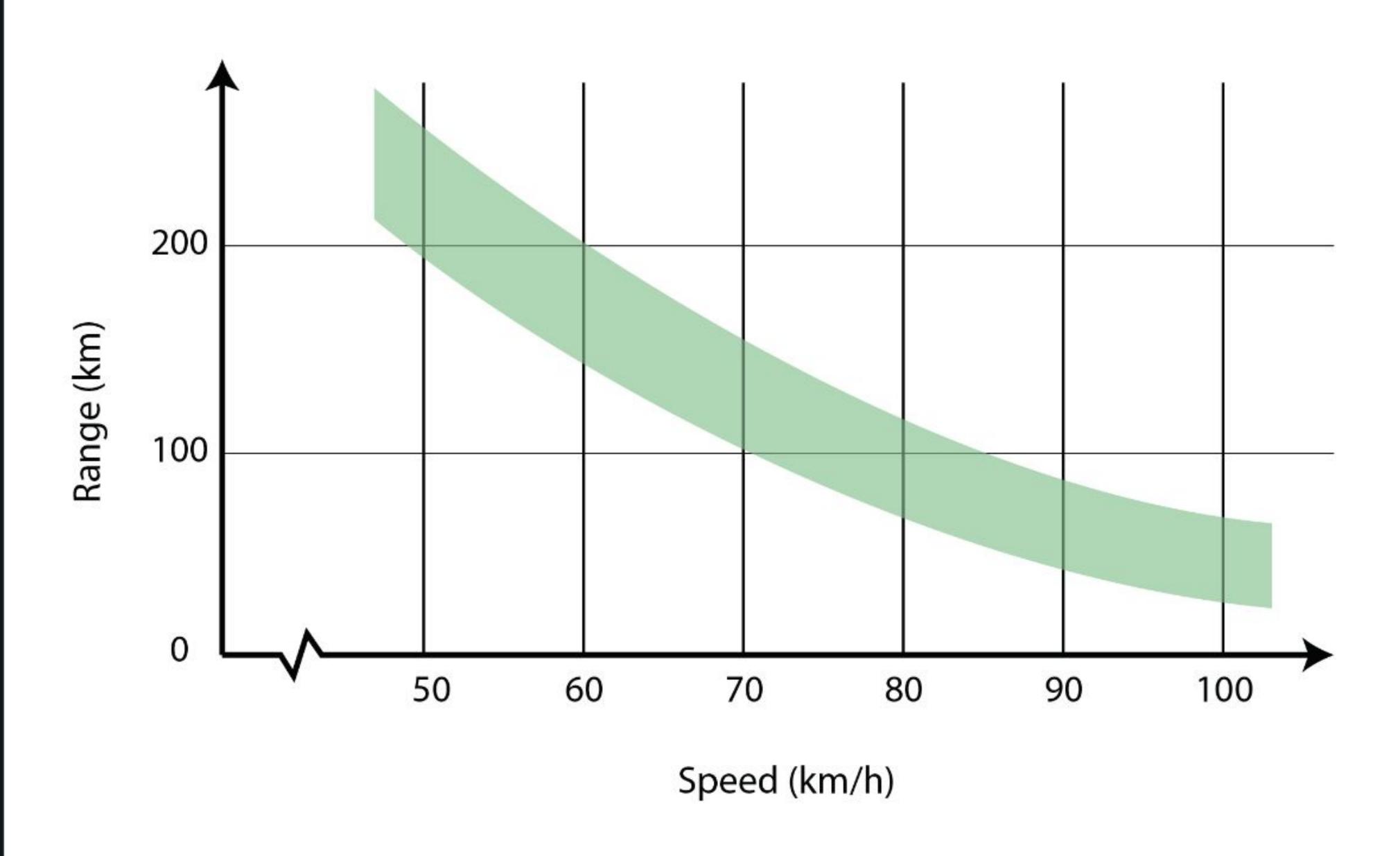
Net weight 119 kg (without battery)
Maximum load <155 kg
Total length 2035 mm
Full width 720 mm
Full height 1140 mm
Seat height 800 mm
Distance between axis 1300 mm

BATTERY RANGE TEST RESULTS

The slower you go, the further you'll go.

The actual range isn't one number, it's between 50km and 250km. The stated range of 150km is an average of these figures.

Range vs Speed (curb weight 152kg - 7.2kWh battery)



BATTERY VOLTAGE-CAPACITY CHART

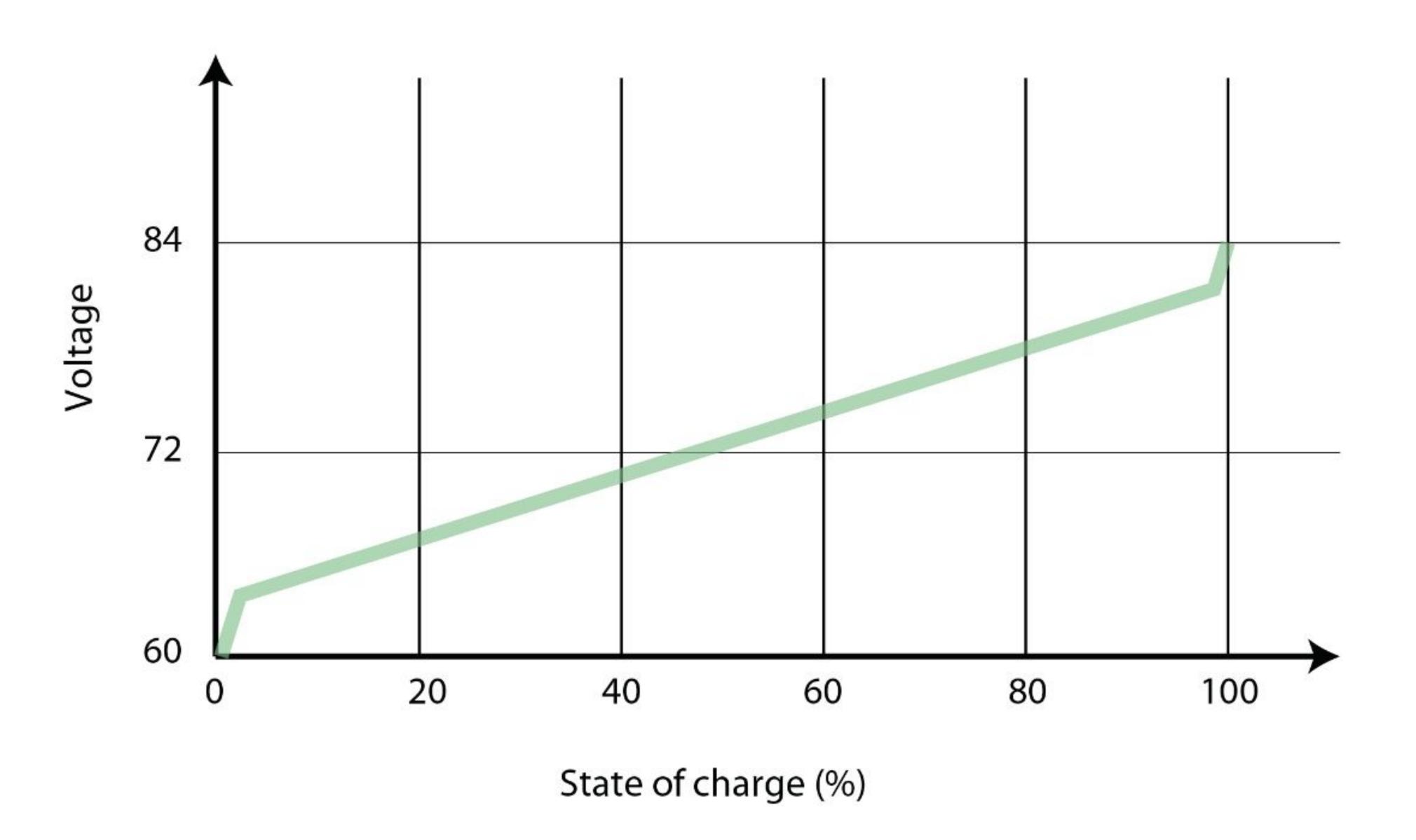
The battery state of charge follows a roughly straight line relationship to the voltage.

Fully-charged voltage is 84V, half-full voltage is 72V and low cut-off voltage is 60V.

Electronics controlling the charging and discharging of the battery ensure that the voltage is always within these upper and lower limits.

Voltage vs Capacity

(25C±2C to 4.20V at a constant current of 0.5C)



ACCESSORIES

Note: please check our website for the latest updated list of accessories with prices.

WWW.DEVS.BIKE

Recuperation sensors to extend battery range* **IMPROVE**

Reverse mode for easier maneuvering PERFORMANCE

> Remote keyless fob for easier start Ferrite Beads for EMF reduction*

Carbon wrapping of panels* CUSTOM

Custom painting in any colour scheme STYLING

Protective wrap for panels

Lock for helmet* HIGHER

Remote alarm system SECURITY

GPS tracking with smartphone APP control

Battery monitor with smartphone APP control* CLEVER

Smartphone mount and USB Charger for Google maps etc CHARGING

On board mounting of charger for use away from home*

Higher speed charger for faster recharging Solar charging system for fossil-free operation

Saddlebags for shopping etc STORAGE

Speaker for music, radio and enhanced safety ENTERTAINMENT

LED body lighting with smartphone APP control*

AC output 230V for running appiances from the bike AC OUTPUT

Essentials kit for emergencies* THE BARE

NECESSITIES

*included as standard for free

GUARANTEE POLICY

All our motorcycles are guaranteed against manufacturing defects for 24 months from the moment of delivery.

For reference, the latest applicable warranty terms are published on our website - www.devs.bike.

EXCEPTION

· All components susceptible to wear such as brake pads, tires, axles, bearings and bulbs are excluded from the the warranty.

VOIDING

The warranty will be voided when any of the following cases are met:

- · When a malfunction attributable to human error or negligence of the user of the machine is demonstrated.
- · Meteorological causes or Acts of God.
- · When the technical limit of use of the machine is breached.
- · If operated in professional or commercial use.
- · When non-original DEVS parts are used during repairs or when any maintenance or repair operation is carried out by a technical service not authorized by DEVS.
- · All motorcycles and components have recommended maintenance periods and must be periodically checked by an official dealer. Failure to comply with these conditions invalidates the warranty against manufacturing defects.



REGISTERED COMPANY

ROCKETMAN S.R.O.
TROJANOVA 16
PRAGUE 120 00
CZECH REPUBLIC

GARAGE

V KORYTECH 10 STRASNICE PRAGUE 100 00 CZECH REPUBLIC

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