

# POWER 45

Instructions for use  
V. 230712



**AUREUS** *Drive*  
Just E-Bike.



# INTRODUCTION

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Dear customer,

We thank you for choosing an AureusDrive E-bike. We're certain you'll have a lot of fun and enjoyment with this elegant, fast, nice and sturdy E-bike!

S-Pedelec is the abbreviation for Speed Pedal Electric Cycle, which means the cyclist benefits from an added electrical assistance when pedaling up to a speed of 45 km/h. The S-Pedelec is an electrically assisted bike. In Switzerland, this kind of vehicle is considered a moped and is subject to compulsory registration and insurance. The driver must hold a valid category M driver's license, which can be obtained from age 14 onwards. Drivers of so-called fast E-bikes (max speed for every construction with pedaling assistance of more than 25 km/h and up to 45 km/h : art. 3b al. 3 let. c OCR) must wear a bicycle helmet (tested under EN 1078 standards).

All E-bike users must comply with regulations for cyclists and therefore use the signposted cycle lanes and cycle tracks in Switzerland (art. 42 al. 4 OCR, art. 46 al. 1 of the loi sur la circulation routière-LCR, art. 33 al. 1 of the ordonnance sur la signalisation routière-OSR).

Please note that that the legislation for S-Pedelec can be different outside of Switzerland. In Germany, for example, it is forbidden to use cycle tracks with a S-Pedelec, except where expressly indicated. Before going abroad, please find out about the current regulations in your destination country.

Since July 1<sup>st</sup> 2012, children can be transported in a bike trailer not only with a 25km/h E-bike, but also with faster 45 km/h E-bikes. Any E-bike can transport up to three children - two in a trailer and one on a child seat (art. 42, al. 4, OCR in relation with the art. 63, al. 3, let. b et d, et al. 4, OCR). As more weight means a longer braking distance, speed would also have to be adapted or decreased as a result.

We wish you many pleasant journeys !

Gabriel Barroso  
Co-founder of AureusDrive SA

Sergio Tresch  
Co-founder of AureusDrive SA

# IMPORTANT

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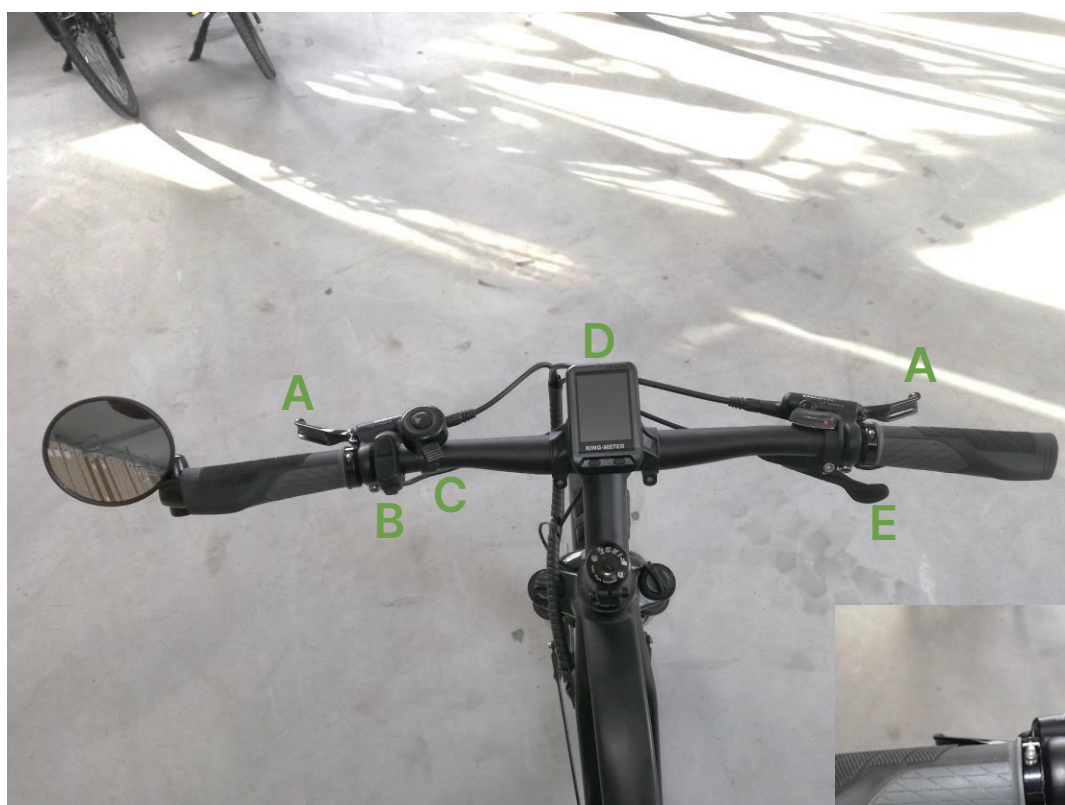
- The E-bike should only be put into service when the charger is no longer connected.
- Brakes must be honed during the first few kilometers of a new E-bike.
- Recharge only in dry rooms.
- The battery and charger must never be placed on flammable surfaces during charging.
- Always check that the battery is locked and cannot fall out of its socket.
- Even if the E-bike is not used, the battery must be recharged every three months.
- In winter, it is best to remove the battery from the E-bike and store it at a temperature between 15 and 18 degrees Celsius.
- If an error message appears on the display, it means that an error has occurred in the system. In that situation, contact your AureusDrive partner.
- If the battery is damaged in a fall, you should have it checked by your AureusDrive partner.
- The battery must not be opened and must only be transported in its original packaging.
- Never use a steam cleaner or Kärcher to clean your bike. Firstly, the electronics could be damaged, and secondly, the lubricating grease would be removed from the chain and bearings. This can lead to corrosion.
- Do not immerse the battery in any liquid – wiping it with a damp cloth is sufficient.
- It is best not to use the battery while the contact points are still wet.
- Do not use degreasing cleaners for tyres and seals, as this will damage the rubber.
- After the first 500 km, the derailleur can be adjusted by AureusDrive or an AureusDrive partner during the 500 km check-up.

# CONTROLS

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- A Brake lever
- B Assistance selector
- C Bell
- D On-board computer
- E Gear selector



- ▲ Superior assistance level
- ▼ Lower assistance level + recovery
- M Change in the informations displayed



System on/off switch

Lights on/off switch

# Display

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Lights on  
 Engine temperature  
 Battery charge level

**TO GO** Potential distance remaining depending on battery charge and level of assistance  
**WATT** Power supplied by the battery  
**ODO** Total mileage in Km.  
**PAS** (*Pedal Assist Sensor*) Level of assistance



Walking assistance

**TRIP** Distance covered since last reset  
**TRIP TIME** Duration of distance covered  
**MAX SPEED** Maximum recorded speed  
**AVG SPEED** Average speed

All informations on this screen can be reset by pressing the «M» switch for three seconds. Data is then deleted and cannot be recovered.

# FUNCTIONS

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To switch the system on or off, press the ignition button for 3 seconds.

PAS 1 mode is selected by default. This ensures that you do not have full engine power at start-up and therefore do not accelerate too strong.

The « walking assistance » mode is activated by pressing the ▼ switch and pushing the bike. Up to 6 km/h.

The PAS assistance mode has 5 positive assistance levels, and 3 negative energy recovery levels.

When riding, it is possible to switch directly to energy recovery mode by pressing the ▼ switch for 3 seconds: the bike returns to positive PAS mode when the button is then released.



# BATTERY

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- Please return used batteries to an AureusDrive partner or a municipal collection point.
- If the battery is damaged in a fall, you must have it checked by your AureusDrive partner.
- The battery must not be opened and must only be transported in its original packaging.
- Under no circumstances should the E-bike be washed with a powerful jet of water, such as a high-pressure cleaner.
- The battery and charger must not be placed on a flammable surface during charging.

## ↔ For models from December 2022 onwards

There is no longer a main switch on the battery : the battery is switched on by the LED button. The battery goes into standby after 2 hours and is switched on again by pressing the LED button.



The battery can be removed from the frame for recharging. To remove the battery, turn the key and pull the battery to the left by its upper end. **BE CAREFUL OF ITS WEIGHT.**

When putting the battery back on the frame, insert it from top to bottom. Make sure the battery is hooked onto the bottom end of the rail and push it to the right to lock it in place until it clicks into place.

# BATTERY

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Our battery has a capacity of 1200 Wh. Battery autonomy depends on a number of factors, including gradient, rider's weight, ambient temperature, assistance level, pedalling cadence and tyre pressure.

Our tests showed an average range of 60 to 200 km, depending on the level of assistance, on routes without major gradient.

When the battery is completely discharged, a full recharge takes between 7 and 9 hours. Our charger charges the battery with a rather low current of 3 amps at 48 volts, which is gentler on the Samsung battery and ensures a longer battery life.

- Only charge in a dry place.
- The battery should be recharged every 2 months, even when the E-bike is not used.
- In winter, it is best to remove the battery from the E-bike and store it at a temperature between 15 and 18 degrees.
- Do not completely immerse the battery in any liquid – wiping it with a damp cloth is sufficient.
- It is best not to use the battery when the contact points are still wet.
- A USB port is available to power a GPS device, mobile phone, etc.





# SPECIFICATIONS

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**AUREUS** *Drive*  
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Frame	Aluminium welded, normal or lowered top tube
Frame color	White, matt black, light pink, or supplement for personal RAL color choice
Frame size	S (155cm - 170cm), M (170cm - 185cm) or L (taller than 185cm)
Tires	Hutchinson Hausmann 700×50C
Weight (incl. battery)	31 kg
Engine	Aureus-Power-Drive rear hub motor 800 watts/55Nm couple
Sensor system	Torque, speed and temperature sensors
Display	LED screen 81×52×85mm
Pedal assistance	5 levels + 3 levels of energy recovery (engine brake)
Speed	45 km/h
Battery	1200 Wh lithium-ion battery
Range	60 - 200km depending on assistance level and speed
Battery charging time	Approximatly 8 hours for full charge
Circuit	Shimano Deore 10-gears
Brakes	Shimano 203mm
Suspension fork	AureusDrive 70mm suspension fork with 40mm wide tube
Saddle and handle	Velo ergonomic grips and saddle
Lights	Spanninga Axendo 100 Speed - 100 Lux
Luggage rack and mudguards	Aluminium from Pletcher et SKS
Handlebar	Aluminium from Promax
Rearview mirror	Busch & Müller

# CONFORMITY

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## DECLARATION OF CONFORMITY - EC - POWER45 AUREUSDRIVE

**AureusDrive AG**  
Rothenring 3a  
CH-6015 Luzern

<b>Product name</b>	AureusDrive Power45 E-Bike
<b>Commercial name</b>	AureusDrive Power45
<b>Model name</b>	Power45

**It is hereby confirmed that the designated product complies with the requirements of the following European directives**

2014/35/EU	Low voltage directive
2014/30/EU	Electromagnetic compatibility directive (EMC)
2006/42/EU	Machinery directive
2011/65/CE	Restriction of the use of certain hazardous substances in electrical and electronic equipment directive (RoHS)

### The responsible entity for putting the product into circulation

AureusDrive AG  
GmbH Rothenring 3a  
6015 Luzern

Luzern  
29.06.2021

