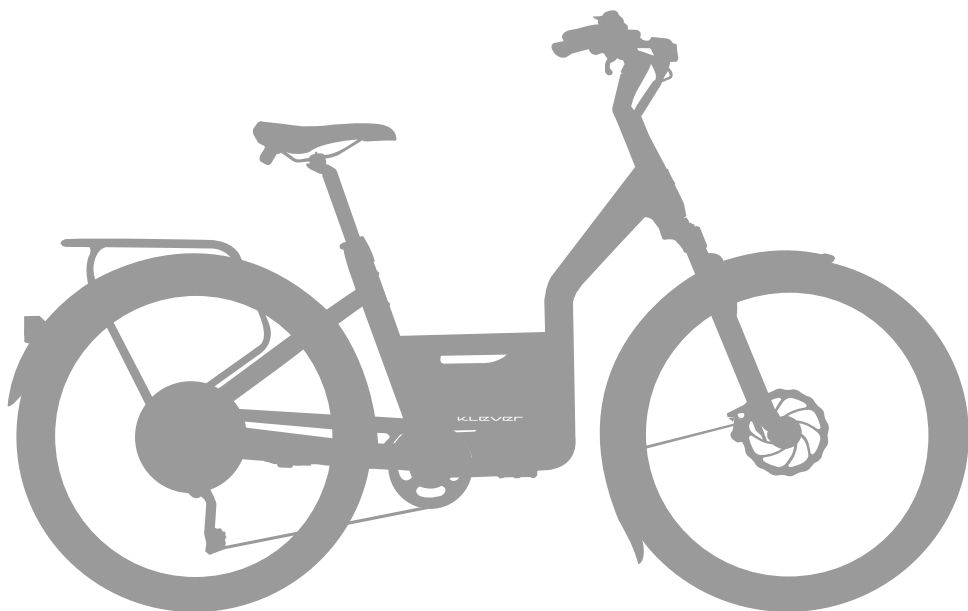


Model

# Klever Y Muse 25



NL November 2021



KLEVER

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## 1. QuickStart

### Dear customer,

On the first pages of this comprehensive instruction manual, you will find this QuickStart guide which gives you a quick overview of the main features of the Y Muse 25 e-bike.

For further information please read the additional instructions on the following pages. There you will find all important technical details and further relevant information. Should you have any further questions, please ask one of our authorised dealers or contact our technical hotline, whose contact details are at the end of the manual.

Enjoy your Y Muse 25 e-bike and we wish you a lot of fun,

The Klever Mobility team.



Image 1



Image 2



Image 3

<b>N</b>		No support, electric system active
<b>ECO</b>		Low support
<b>TOUR</b>		Medium support
<b>MAX</b>		High support

The ⚡ (TURBO) button on the display has **3 functions**:

<b>1. Walk-assist:</b> actuate the ⚡ (TURBO) button while walking next to your E-bike. The maximum speed is 4 km/h.	<4 km/h	Pushing aid while taking your E-bike by the hand.
<b>2. TURBO-mode WITHOUT pedalling</b> of the cyclist. The maximum speed is 4 km/h.	<4 km/h	Additional support at standstill or in case you do not want to pedal.
<b>3. TURBO-mode WITH pedalling</b> of the cyclist. While actuating the ⚡ (TURBO) button in ECO- or TOUR-mode the electric support will be increased to MAX-mode.	<25 km/h	Additional support while riding hills or strong headwinds.

### Safety check

Before starting the bike please always check the operation of the brakes and the tyre pressure.

### Launch of the electric drive

You can start the system with or without inserting the dedicated Y Muse 25 E-KEY (image 2). Check for the details concerning the function of the E-KEY section 6.4.

As soon as you insert the E-KEY into the display, the system will be activated and start itself. With the E-KEY already in the display while the system is off, there are two ways to activate the system:

- 1. Just press the on/off button** (image 3), after a 3 seconds system check your E-bike is ready to be pedalled.
- 2. When you start pedalling, the electric system will wake up automatically.** After a 3 seconds system check, the electric drive will start to support.

### Charging the battery:

**Caution!** The battery should only be charged with the appropriate, supplied charger (image 4).

The battery can be charged on (image 6A) and off bike (image 6B). For removal of the battery see section 6.5.3. Connect the charger with the power cable and the power plug to the wall socket. If the LED on the charger shows constant red light, the charger is ready for use. Connect the charger plug of the charger to the charging socket on the battery (images 4+5+6A/6B). The charging process starts automatically. Once the LED on the charger constantly lights green the operation is complete and the battery is charged. Unplug the power plug from the wall first, then remove the charger lead from the battery charger.

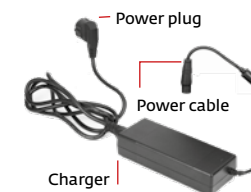


Image 4



Image 5



Image 6A



Image 6B

Charging status	LED on charger	LED on battery pack	Remark
	Flashing red		Error code: check connections
	Steady red		Charger is ready to charge
0%	Flashing yellow	Flashing red	Capacity very low; charging starts
<35%	Steady yellow	Flashing red	Normal charging
35 – 75%	Steady yellow	Flashing yellow	Normal charging
75 – 90%	Steady yellow	Flashing green	Normal charging
>90%	Flashing green	Flashing green	Final charging
100 %	Steady green	No LED colour	Fully charged

The charging of an empty rechargeable battery of 570 Wh (from 0% to 96%) will take about 7 hours with the standard 2A charger.

## 2. Introduction

### Congratulations

With the purchase of this Klever Mobility Y Muse 25 E-bike you have made the right purchase decision and you got a high-quality product which will offer a lot of pleasure in everyday life.

Technically and functionally up to date, it is carefully manufactured using the highest quality materials and components. An excellent design and excellent value for money distinguishes this E-bike.

For a trouble free, pleasurable riding experience with your new Y Muse, please read this manual carefully.

Everything you need to know in terms of technical specifications, operation, maintenance and care, has been carefully compiled in this manual. Please also note the additional information in the instructions separately supplied with some of the components.



**Pay particular attention to sections in bold which are additionally marked with "Caution" symbol. The most important information is again summarised. It should be observed to avoid possible accidents and danger to your life and limb.**



**Bold sections marked with this symbol contain information about the Y Muse and its accessories and its handling.**



**Operations marked with this symbol are to be executed by authorised Klever dealers. These operations require a lot of experience and special tools.**

Furthermore, in case you need any further information or advice, please contact our technical hotline at +31 (0)30 2102905 (Monday - Friday from 8h00 -17h00 CET), or contact an authorised Klever retailer.

The latest available information on our products, other technical information and videos can be found on our website: [www.klever-mobility.com](http://www.klever-mobility.com).

Your Y Muse 25 E-bike has been equipped according to the Belgian & Dutch Road Traffic Act. Hence, you can use it safely on public roads. This E-bike has been equipped with

a a bright-sounding horn, a complete lighting system with quality marks for the head light and the tail light, reflectors and with 2 sets of brakes independently actuating the front and rear wheel.



**Please note! The additional electric motor support is limited to max. 25 km/h, and thus complies with the statutory requirements for EPAC vehicles (Electrically Pedal Assist Cycles). Meaning you do not need a liability insurance, license plate nor a driving license. Moreover, it is not mandatory to wear a helmet, even though we strongly recommend to wear one for your own safety.**

### 3. EC Declaration of Conformity CE

**The Manufacturer:**

Klever Mobility Inc.  
No. 8, Ln.76, Sec.3, Zhongyang Rd.,  
Tucheng Dist.; New Taipei City 236  
Taiwan

Represented the Benelux by:

Klever Mobility NL bv  
Regulierenring 15  
3981 LA Bunnik  
Tel.: +31 30 210 2905  
infoNL@klever-mobility.com  
www.klever-mobility.nl

Hereby confirms for the product: Y Muse 25 km/h model year 2021:

Conformity with all applicable directives from the European Machinery directive: **2006/42/EC**.

The machine also conforms to all the directives from the Electromagnetic Compatibility directive: **2004/108/EC**.

In addition, the following harmonised European Standards apply: the **EN 15194:2017 standard** for bicycles with electric pedal support (EPAC's) and the **EN-ISO 4210 standard** for city and touring bicycles in which the technical safety requirements and test methods are being described.

**Technical documentation by:**

**Klever Mobility NL bv**

### 4. Getting started and safety check of your Y Muse 25

Although your E-bike has been subject to a final check on the assembly line as well as by your local Klever dealer, the transport and time may have caused changes in its functionality. Therefore, prior to your first ride and occasionally thereafter, you should consider to check following points:

- Make yourself intensely familiar with the Y Muse 25 and the functioning of its electric motor support, before the first ride in public traffic.
- Setting of the saddle and the handlebars.
- Function of the brakes.
- Air pressure and the depth of the thread pattern of the tyres.
- Proper operation of the lighting system.
- Tightness of the bolts and nuts of the wheels.
- Minimum insertion of the seat post.



**Caution! Do not start when you identify deficiencies in one of these points. While riding a defective E-bike this can cause serious accidents and endanger your life. If in doubt, please contact your dealer or our technical hotline.**



**Caution! Your bike suffers wear and tear in everyday riding through extreme weather and road bumps. Through constant dynamic loads different parts of the bike experience different material fatigue and wear. Therefore, it is recommended to inspect your Y Muse 25 on a regular basis and look for wear of parts and changes in scratches or cracks, or the discolouring of parts. These could possibly indicate damage of the part. Needless to say, that damaged parts must be repaired or replaced.**



**Please note! Following the inspection plan in section 19, you best bring your E-bike to your Klever dealer for inspection, service, maintenance and repair.**



***Please note! Make sure to only use original Klever spare parts. In case you are not sure whether to use certain spare parts or not, please always contact your official Klever dealer or otherwise call our technical hotline.***

## 5. Behaviour in road traffic

Thanks to the electric auxiliary propulsion you reach high speeds and accelerate faster and easier than you are used to with a regular bike. Therefore, you should intensively familiarise yourself with the Y Muse only on a traffic-calmed road before you go in public traffic. During riding on the road, you should follow these tips:

- Though it is not compulsory, we strongly recommend to always wear a helmet during riding.
- Make yourself familiar with the traffic rules and stick to the rules.
- Be ready to brake at any time and expect misconduct of others.
- Ride defensively and be considerate to other road users.
- Always keep your Y Muse 25 in a perfect condition.
- Use your bike only in accordance with its intended purpose (see section 13. Intended use).
- Don't use a mobile phone nor a headset while riding.
- -Be sure to observe the maximum weight of cyclist + Y Muse 25 + luggage of 150 kg (see section 11. Technical Data).
- Have your E-bike checked according to the recommended service intervals by authorised Klever dealers.

## 6. Klever's proprietary electric propulsion – the BIACTRON system

You have purchased an E-bike that helps you improve your day-to-day mobility with its electric propulsion. Slopes can be better managed and the wind resistance can be better overcome.

Klever's electric BIACTRON system consists of the following components:

1. Rechargeable battery
2. Motor
3. Control unit / Display
4. Motor controller
5. Torque sensor
6. Pedal Sensor
7. Charger (image 7)

Once you turn on the system and you start pedalling, the motor will support you as long as you pedal up to a maximum speed of 25 km/h.



Image 7



Image 8

The five (different) levels of motor support can be selected according to the external circumstances (e.g., climbing uphill or with headwind) or to your personal preferences. Please note that a higher level of motor support consequently means a higher battery consumption and reduces the range of system and battery.

In case you ride faster than 35 km/h (e.g., downhill), automatically the recuperation of pedal energy (i.e., technical regeneration) will be activated. The motor operates as a generator and partly re-charges the battery. The recuperation of pedal energy and battery capacity = REGENERATION will be explained in section 6.3.

### 6.1. Sensors and their function

The Y Muse 25 is equipped with a torque sensor in the frame's rear dropout. This sensor accurately measures the force you exert during pedalling. In conjunction with the pedal sensor, this torque sensor precisely monitors the cycling effort of the cyclist. The motor controller then calculates these values and manages precisely the amount of support from the motor. Hence generating a perfect synergy between cyclist and Y Muse 25.

You can also define the amount of motor support by yourself choosing between the ascending levels of support (N, ECO, TOUR, MAX, TURBO). This makes the system very efficient and economic, saving power consumption and maximising range.

The additional speed sensor sets the power of the electric motor to zero once you have reached a speed of 25 km/h or more. Above 25 km/h this E-bike functions like a conventional bicycle, the only way to maintain the propulsion of the vehicle is by pedalling solely.

The electric motor support only kicks in when you actively pedal. Therefore, from a standstill to get started either you have to pedal or you have to actuate the ⚡ (TURBO) button on the display. From standstill without pedalling the motor will take you to a maximum speed of 4 km/h. The ⚡ (TURBO) button was also designed as an aid when starting uphill or in case the bike has to be pushed while walking alongside the bike.



## 6.2 Levels of electric motor support

Our BIACTRON-system offers five levels of electric motor support:

- N
- ECO
- TOUR
- MAX
- TURBO

Depending on topography, weather conditions and your personal preferences, you can choose the motor support using ↑ (Up arrow) and ↓ (Down arrow) button and the ⚡ (TURBO) button.

System level	Amount of support	Situation (recommended)
N	No support, electric system active	Downhill
ECO	Low support	Flat roads
TOUR	Medium support	Slight hill / headwind
MAX	Strongest support	Steep hills / fierce headwinds
⚡ (TURBO) (MAX) while pedalling < 25 km/h.	Strongest support	Steep ramps / violent gusts
⚡ (TURBO) (MAX) without pedalling < 4 km/h.	Strongest support	Starting from standstill
⚡ TURBO) (ECO) walking with Y Muse < 4 km/h.	Walk-assist, low support	Walking with Y Muse or pushing uphill



**Please note! In case you actuate the ⚡ (TURBO) button, there are three scenarios:**

- 1. You walk alongside the Y Muse and/or you push it out of your garage. While pushing the ⚡ (TURBO) button you will activate the Walk-assist mode and you will trigger a moderate electricmotor support up to 4 km/h. In this way you can walk with your vehicle comfortably and easily.**
- 2. You are sitting on your Y Muse 25 and intend to start from standstill on a ramp without pedalling. Push the ⚡ (TURBO) button and you will get the strongest support up to 4 km/h.**
- 3. You are sitting on your Y Muse 25. You are pedalling with for instance TOUR support and you need the strongest support momentarily. Push the ⚡ (TURBO) button while pedalling and you will trigger the strongest support regardless your speed (from 0 to 25 km/h).**



**Please note! These 3 options will only function while you keep the ⚡ (TURBO) button pushed. As soon as you release the ⚡ (TURBO) button, the electric motor support will stop. Except in the latter case of pedalling: in that case after releasing the ⚡ (TURBO) button the level of electric motor support will go back to the preselected level (TOUR as in the example of scenario 3).**

In order to save battery power, the support level will automatically be limited to the TOUR level when the battery capacity drops to 10%. When the battery capacity drops to 5% the support level will be limited to the ECO level and in the case of a battery capacity of 2% or less the level will be N.

## 6.3 Recuperation of battery capacity: regeneration

The BIACTRON system of your Klever electric bicycle has an innovative, unique function: the recovery of battery capacity, also known as regeneration. Every time the drive system goes into freewheel mode, the BIACTRON system will start braking the motor. As a consequence, the motor friction is being converted into electricity that is stored in the battery. The freewheel model will be activated once you do not pedal and roll out to a traffic light or you roll down a hill or mountain without having to pedal.

Section 6.4.3 (menu for settings) explains how this function can be activated and adjusted to your personal preferences. The regeneration function is a nice and clean addition to the capacity, consumption and range of your battery. The more and longer you ride in a mountainous environment, the more you will benefit from this function. However, the recovery of electricity is limited and depends to a large extent on your riding behaviour, the environment where you ride and the chosen regeneration settings.

## 6.4 Display

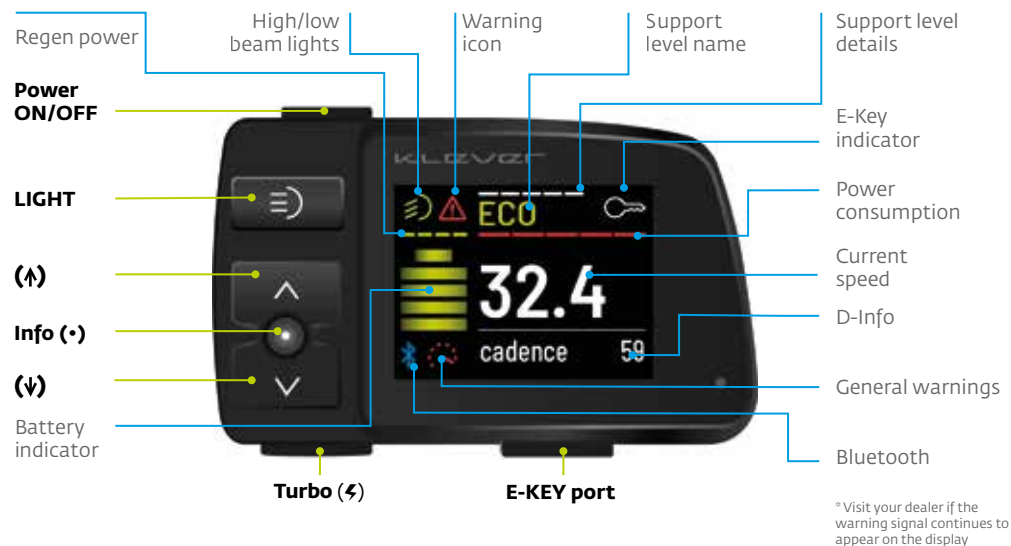


Image 9

With the display you start and control the BIACTRON-system. When you purchase the Y muse 25 your Klever dealer will pair the e-bike with a set of two E-KEY's with a unique ID code. After the pairing your Y Muse 25 will only function and start with E-KEY's with the programmed ID code. It is impossible to activate your Klever bike with an E-KEY of another bike. Each Klever bike will be delivered with two identical E-KEY's with their unique ID code.

### Now you can start the system with or without inserting the E-KEY (see section 6.4.3).

Every press of a button will be confirmed with a short acoustic signal. As soon as you insert the E-KEY into the display (image 10), the system will start. With the E-KEY already in the display while the system is off, there are two ways to activate the system:

1. **Just press the On/Off button** (image 9), after a 3 seconds system check your E-bike is ready to be pedalled.
2. **When you start pedalling, the electric system will wake up automatically.** After a 3 seconds system check, the electric drive will start to support.



Image 10

Button	Location	Function
Power	Upper left edge	On/Off system
INFO (•)	Button with a dot, in between the two arrows	Switch between time, trip, Km-day, odo, soc (state of charge), kcal (calories) and cadence
Up arrow (↑)	Middle left	Increase support level
Down arrow (↓)	Lower left	Reduce support level
⚡ Turbo	Lower left edge	Starting and walking aid (without pedalling) Strongest support (without pedalling) Strongest support (while pedalling)
Light	Upper left panel	On/Off light

### 6.4.1 Function of each button

#### On/Off button (image 11)

Press the POWER button and you'll boot the system. The system performs a system check of 3 seconds, and the drive system is ready to operate. The electric drive will start to support depending on the level of assistance chosen.



Image 11

Press this button again, the system will be turned off and all settings are being stored. Press the button again, the system starts and all previous settings and levels of support are enabled again.

#### Up arrow (↑) button (image 12)

Press the up arrow (↑) button and you increase the support level. For instance, when the selected level is TOUR and you press the up arrow (↑) button, the support level of the motor will increase to MAX level.



Image 12

#### Down arrow (↓) button (image 13)

Press the down arrow (↓) button and you decrease the support level. For instance, when the selected level is TOUR and you press the down arrow (↓) button, the support level of the motor will decrease to ECO level..



Image 13



Image 14

**INFO (•) button (image 14)**

Press the INFO (•) button and subsequently all rider's information will be displayed on the LCD-screen.

Press the INFO (•) button shortly in order to go through the available rider's data: **time, trip, Km-day, odo, soc, kcal** and **cadence**. See below.

Please note: the available rider's data may vary depending on bike model and software version

Press "INFO button" to change the D-INFO



Image 15



Image 16

**Time (hh:mm) (image 16)**

The time can be adjusted in the settings menu of the display, by synchronising with your smartphone or with the service tool at your Klever dealer.

**Trip (image 17)**

The number of kilometres ridden since the last reset, in this case 0.9 km. If you want to reset the trip distance to zero at the start of a new trip, press the INFO (•) button long and select 'Reset' in the menu. Select 'yes' and confirm by pressing the INFO (•) button (see section 6.4.3 with the submenus of the display settings).



Image 17

**Km-day (image 18)**

Kilometres ridden today, starting at 00:00, in this case 3.5 km. The daily mileage will be set to zero at midnight 00:00 every day.



Image 18

**Odo (image 19)**

Accumulated kilometres during the entire lifecycle of your Y Muse 25, in this case 459 km. When the odo reaches 99,999 km, it will be reset to 0.



Image 19

**SOC = State of Charge (image 20)**

The SOC indicates the current battery capacity, in this case 49% of the total.



Image 20

**Kcal (image 21)**

The rider's number of kilocalories burnt while cycling, in this case 12.0 kcal. For proper kcal calculation please set the rider's weight. Press the INFO (•) button long and select 'Rider' in order to input the rider's weight. Kcal can be reset by selecting RESET in the menu (see section 6.4.3 with the submenus of the display settings).



Image 21



Image 22

### Cadence (image 22)

The cadence is the rider's pedal frequency shown in rotations per minute (RPM). In other words, it shows you how many full rounds your pedals make per minute. In this case 59.



Image 23

### ⚡ (TURBO) button (image 23)

This button has three functions for three different scenarios of ⚡ (TURBO) usage.

1. As a walk-assist while walking alongside your Y Muse.
2. As a ⚡ (TURBO) power assist without pedalling.
3. As a ⚡ (TURBO) power assist while pedalling.

Section 6.2 deals in detail with these three different scenarios.

**Please note! We recommend that you familiarise yourself with the 3 different scenarios of ⚡ (TURBO) power support prior to riding your Y Muse 25 on public roads. Try to practice these scenarios on a parking lot or in a traffic-calmed street. Once you feel comfortable using the three ⚡ (TURBO) modes, you can start riding your Y Muse on public roads.**



Image 24

### Battery status (image 24)

The battery icon shows the charging status of the battery. One bar represents 20% of full capacity (half bar represents 10%). If only one bar is shown, only 20% of the maximum capacity of the battery is available. Now the battery should be recharged. When the battery icon is half of a bar only, there is less than 10% battery capacity remaining so recharging of the battery is urgently needed.

Display	Capacity level
5 bars light up green	≤ 100%
4 bars light up green	≤ 80%
3 bars light up green	≤ 60%
2 bars light up green	≤ 40%
1 bar lights up orange	≤ 20%
Half of a bar lights up red	≤ 10%

Additionally, you can check the charging status with the LED on the front side of the battery too. To save battery capacity, it is not possible to choose support level MAX if 10%, or less, battery capacity is left. With 5% or less capacity remaining, only the ECO level of support is available. At 2% remaining battery capacity the system will switch to level N. Meaning that you will not have electric motor support any ore, but the system (display & lighting) will remain functioning.

### Support level (image 25)

The bars in the upper part of the screen show the selected level of motor support. See section 6.2 for the various levels of electric motor support and the recommended riding situation.



Image 25

## 6.4.2 Display content



Image 26



Image 27



Image 28

**Speedometer (image 26)**

The main display will show the current speed.

### Regeneration (image 27)

This shows the amount of regeneration power you get from the system in case you have selected the recuperation = regeneration mode in the menu (see section 6.4.3 for the menu of regeneration settings):

- Automatic regeneration
- -1 = light amount of regeneration
- -2 = medium regeneration
- -3 = maximum regeneration

The more bars you see, the more regeneration you get back from the system.

### Power consumption (image 28)

This shows the actual power consumption. The longer or more bars, the more your battery is being drained. Of course, higher consumption will decrease your range more rapidly.

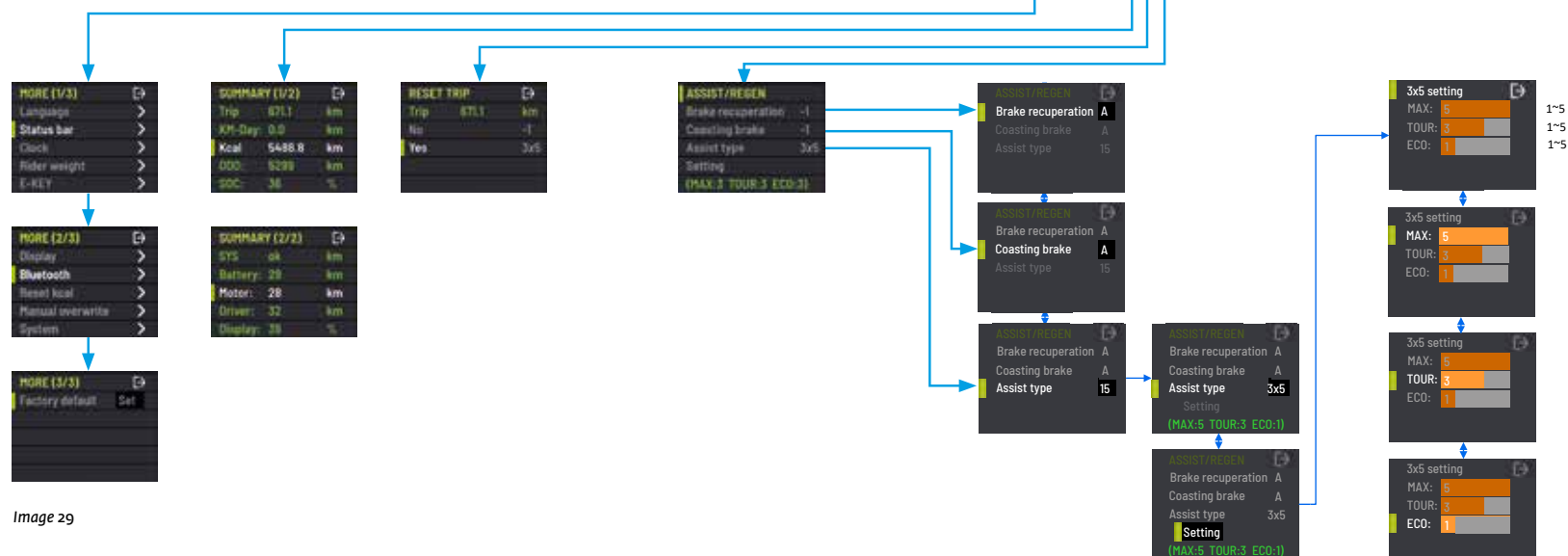


Image 29

### 6.4.3 The menu and submenus for settings

Press **INFO (•) button for 3 seconds** to enter the Settings menu.



Use the arrow (↑) and (↓) buttons to navigate and then select with the **INFO (•)** button to confirm your choices.



## Settings menu

### Submenu > ASSIST/ REGEN

With the Assist type menu you can adjust the support levels through two options:

#### 3x5

There are 3 basic levels of ascending motor support: ECO, TOUR and MAX.

Each basic level can be set with 5 sublevels from 1 to 5 to meet your personal preferences. The factory default settings for each basic level are 3. The example of image 29 shows MAX with level 5, the strongest support and ECO with level 1 the least support.

Once the levels being set, you choose with the (↑) and (↓) button the 3 basic levels ECO, TOUR en MAX in 3 steps. While riding you cannot change the settings for the sublevels. This must be done in the ASSIST menu again.

#### 15

The motor support levels increase gradually in 15 steps from 1 to 15. From ECO in level 1 (least support) you go with the (↑) and (↓) button in 15 steps linearly to MAX in level 5 (max support).

### REGEN

Regen means the regeneration and recuperation of electric energy back into the battery pack (see section 6.3 Regeneration).

There are two regen functions:

- Regeneration through braking
- Regeneration while coasting and freewheeling

The Regen menu offers following settings:

- While braking: on/off
- While coasting: on/off

And has 5 levels of regeneration:

- Automatic regeneration
- -1 (light regeneration)
- -2 (medium regeneration)
- -3 (strong regeneration)
- 0 (no regeneration).

The Regen factory default setting has regeneration turned off for both braking as well as for coasting.

Please note: Braking regeneration is only available on 45 km/h Type Approval models. It is not available for 25 km/h EPAC-models.

### Submenu MORE

With the submenu MORE you can adjust following parameters: the language of the display, the information during riding, time, weight of the cyclist, settings for the E-KEY and the display settings. Also, you can connect your smart phone through Bluetooth with the Klever display and you can reset trip and calories to zero.

#### Setting MORE > Language

You can change the language to your preference. The display will be shown in the language of your choice (NE, DE, EN, FR, IT, US).

#### Setting MORE > Status bar

Seven types of information can be shown on the major display by default. With a short press of the INFO (•) button (see section 6.4.1. Function of each button). And you can hide any of those in case you do not need them while riding.

#### Setting MORE > Clock

Time can be adjusted here or can be synchronised with your smart phone.

#### Setting MORE > Cyclist weight

Input the cyclist's weight for the proper calculation of the calorie output. You can set the weight of 2 cyclists using the Y Muse 25 frequently.

#### Setting MORE > E-KEY

The two E-KEY's supplied with your bike are being paired with the E-drive system by your Klever dealer. You have two options for the E-KEY functionality:



### 1. E-KEY must always be inserted

When you turn on the system the display will read "insert E-KEY". You have to insert the E-KEY to activate the system. In case you start to ride without inserting the E-KEY, then the alarm will set off and the motor will be locked.

Once you have inserted the E-KEY and the system is being activated, you can remove it and the system will continue to operate until you turn off the system. After that the motor lock is being activated. The next time when you turn on the system again, the display will ask again for the insertion of the E-KEY.

### 2. Motor lock option YES or NO

- The start-up procedure is the same, the display will ask to insert the E-KEY. In case you remove the E-KEY while the system is still on, the display will ask whether you want to lock the motor or not:
- Once you select NO, you can continue to cycle. After you have finished cycling, you turn off the system with the On/Off button. The next time when you turn on the system, you will not need the E-KEY to activate the system.
- Once you select YES, the system will be turned off instantly and the alarm and the motor lock will be activated. In case you start to ride your bike now, the alarm will set off and the motor will be locked. In case you turn on the system with the Power button, then the display will ask to insert the E-KEY again. After you have inserted the E-KEY, you can take it out and put into your pocket. The option menu shows again for you to make the Motor Lock choice etc., etc.

### Setting MORE > Display > Sound

The system acoustic sound can be turned ON or OFF.

### Setting MORE > Display > Brightness

The brightness of the display can be adjusted.

### Setting MORE > Display > Light

You can decide to keep the head and tail light on or off when the system is on. Head and tail light of the Y Muse 25 will be turned automatically when the system will be turned on.

### Setting MORE > Bluetooth

You can use your smart phone as a dashboard to show the information from the bike system by Bluetooth connection.

### Setting MORE > Reset Kcal

The Kcal can be reset to zero.

### Setting MORE > Manual overwrite

This setting can be adjusted by your Klever dealer.

### Setting MORE > System

This is the information which is relevant for your Klever dealer to execute a system diagnosis.

### Setting MORE > Factory default

You can set your bike back to factory default settings.



Image 30

## 6.5 Rechargeable battery

Your Y Muse 25 has a high-quality lithium-ion battery of the newest generation. For technical details, please refer to section 11. Technical data.

The status of the battery can always be checked through the LED light button, next to the charging socket of the battery (image 30). Press the button and the LED will light up either red, yellow or green. If no light, then the battery could be broken. Please have your local dealer check the battery.

Red	Capacity < 35%, battery should be charged
Yellow	Capacity 35 - 75%, battery can be charged
Green	Capacity > 75%, battery can be charged

The battery is automatically protected from overheating, overcharging and deep discharging. It is very user-friendly, very practical, very easy and simple to handle. Nevertheless, you should consider some important things in order to maximise the life and performance of the battery.

Since the lithium-ion battery has no memory effect, you can charge it at any time, even if it is not completely discharged. In practice, it has been shown that it is even better to charge it again after short distances. Your battery has a lifetime of 700 charging cycles. One charging cycle means a full charge of the battery (0 - 100% capacity). Partial charges can be done more often.

When the battery is not being used for a long time (more than 2 months), it should be recharged as a low amount of self-discharge is common. Store the battery, if possible, in a dry, cool and dark place. The ideal storage temperature is between 5 - 20 °C. Avoid exposing the battery to direct

sunlight over a long time. Temperatures over a longer period of more than 45 °C or below -10 °C can cause permanent damage. In winter, you should never start with a cold battery. The capacity of a cold battery is significantly reduced and consequently will have a lower range. A battery which is exposed a long time to frost, should be gently heated in the ambient temperature of a heated room, before starting.

**! Caution! Never place the battery on the heater and never try to heat it with a hair dryer.**

In case you need to park your Y Muse 25 outside for a long time during the cold season, remove the battery and store it in a heated room. Since the battery is very easy to remove, this will be no problem. Do not expose the battery to humidity, to prevent corrosion of the charging socket and the plug contacts. Protect the battery against mechanical damage and don't drop it. Mechanical damage can also cause overheating and the battery could catch fire.

Also, the battery should be charged at moderate temperatures (15-25 °C). Avoid charging in direct sunlight or near heaters, as well as charging outside in winter at low temperature. A cold battery should be gently heated to room temperature before charging.

**! Caution! Charge the battery exclusively with the proprietary and dedicated Klever charger which comes with the Y Muse (image 31).**

Do not use any other type of charging unit since this may damage the battery and may cause overheating or fire. During charging, neither the charger nor the battery should be exposed to humidity, in order to prevent short circuits and electric shocks.

The battery is maintenance-free. Should it be broken or become defective contrary to expectations, seal the contacts with tape and take it to your dealer or contact our technical hotline. Never under any circumstances open up the battery yourself. This is dangerous and could damage the battery and it may even catch fire. The warranty will be void if you do so!



**Do not dispose of the battery into household waste. It must be disposed of properly. It's best to take it to one of our Klever dealers, who can take care of the proper disposal.**



Image 31

**! Caution!**

- Charge the battery only with the proprietary battery charger.
- The battery can be recharged any time, even after short trips.
- Avoid temperatures below -10 °C and above 45 °C for a long time.
- Never start with a cold battery.
- After an extended period (about two months) of storage, the battery should be recharged.
- Protect the battery from humidity.
- Protect the battery from mechanical damage.
- Never open the battery yourself.

## 6.5.1 Charging the battery

You can charge the battery on your bike (image 32) or off you bike. For instance, indoors during the winter time (image 33). Charging at any time, even after a partial discharge (e.g., after a short distance of a few kilometres) is possible. There is no need to wait until the battery is completely discharged, as it has no memory effect. To remove the battery pack, refer to section 6.5.3.

For the technical data of the charger please read section 11 Technical data. To charge the battery, do the following:

- You can monitor the charging process on the basis of the indicator LEDs on the charger and battery.
- Connect the power cable to the charger.
- Insert the power plug of the charger into the wall socket, the LED will start to flash red.
- The charger is ready for charging once the LED lights steady red.
- Connect the socket of the charger into the socket of the battery. The charging process will start automatically.
- The LED on the charger switches to flashing yellow light, charging begins.
- The LED indicator turns to yellow continuous light, the battery is charged to about 35%. The charging is in progress.
- The LED changes to flashing green, the battery is to about 75-90% charged.
- The LED is on solid green, the battery is now fully charged, the



Image 32



Image 33



charging is complete.

- Disconnect the power plug from the wall socket.
- Unplug the socket of the charger from the battery socket.

#### The LED lights on the charger and battery document the state of charge

State of charge	Charger LED	Battery LED	Note
	Flashing Red		Error code: reset by re-plugging AC to mains
	Steady Red		Ready to be connected to battery
0%	Flashing Yellow	Flashing Red	Recovering battery from low state of charge
< 35%	Steady Yellow	Flashing Red	Normal charging
35 – 75%	Steady Yellow	Flashing Yellow	Normal charging
75 – 90%	Steady Yellow	Flashing Green	Normal charging
> 90%	Flashing Green	Flashing Green	Final charging
100 %	Steady Green	No LED	Fully charged

The charging time for a full charge of an empty 570 Wh battery (from 0% to 96%) will take about 7 hours with the standard 2A charger.

**Please note! Make sure that the battery is no longer connected to the charger after the charging process has been completed. Likewise, the charger should be disconnected from the power supply.**

Battery and charger become warm during charging process. Ensure adequate ventilation of the battery and charger. The vent holes should not be covered. Place the charger and battery on a clean surface. Prevent contamination of the charging sockets on the charger and the battery. Avoid humidity and direct sunlight.

**Please note! In case the charger is damaged, please contact an authorised Klever dealer. Never open the charger.**

## 6.5.2 Range

The range specification of the system as indicated in image 34 can only be relative, as it is strongly dependent on the chosen level of support, the technical condition of the bike (oiled chain, proper tyre pressure, etc.), the total weight of the system (bike, cyclist and luggage), the topography of the chosen route and the weather (head- or tailwind, winter or summer).

The lower the selected support level the larger the range of the electric system. The below infographic offers a proper indication of the range you may expect under similar conditions.

**Please note! In winter, the range can be up to 30% less capacity due to lower temperatures.**

Image 34

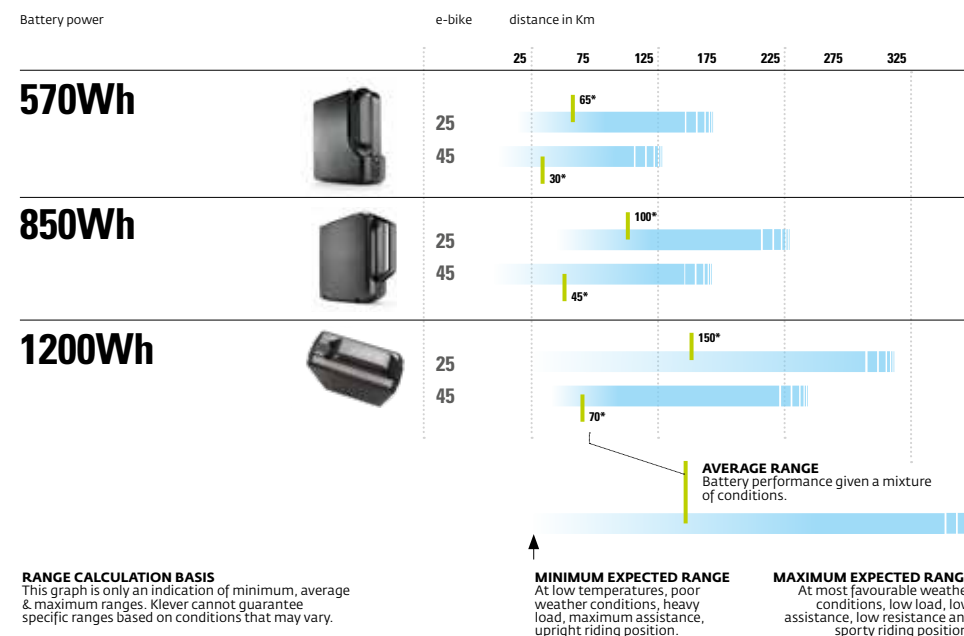




Image 35

### 6.5.3 Removal and mounting of the battery pack

The battery is automatically locked in place with the battery lock and thereby protected from theft. To remove the battery, first turn off the system using the On/Off button on the display. Turn the key in the battery lock clockwise up to the stop and pull out the battery with the handle from its docking station (image 35). Now you can charge the battery separately or store it safely for a longer break.

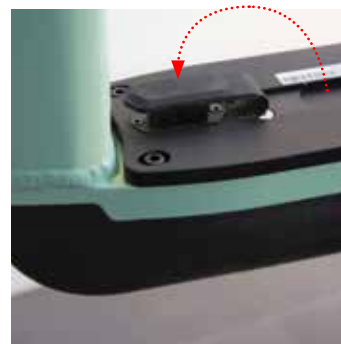


Image 36

Having removed the battery, please don't forget to protect the contact connector with the rubber seal. We advise to always use the rubber seal (image 36).



Image 37

#### Mounting the battery in the docking station

Insert the battery carefully. Make sure the groove of the battery casing is carefully inserted into the guide rail of the bicycle frame. Then slide the battery pack gently down until you hear the lock engage and the electronic contacts are connected (image 37). For this operation you do not need the key of the lock. The lock will automatically snap in and the battery is now locked, the system is ready for operation and the battery protected from being stolen.



**Caution! Do NOT ride your Y Muse 25 without battery! Prior to starting the system, make sure to check whether the electronics contacts of the battery are engaged and locked in place. Riding your bike without the battery could possibly damage the Klever BIACTRON-system.**

### 6.5.4 Transport of the battery

The battery is subjected to the Dangerous Goods Legislation. The user can transport the battery by road and train without any further requirements. However, when being transported by third parties (e.g., forwarders, post or via air) special requirements on packing and labelling of the battery pack must be observed.

For the preparation of the battery being transported, consulting an expert for hazardous material is absolutely required. Ship the battery only when the casing is undamaged. Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packing. And please also observe detailed national regulations.



**Please note! In every case of transporting a broken or damaged battery, always refer to an authorised Klever dealer. The dealer can inspect the battery and, in case necessary, forward the broken battery to Klever Mobility.**

## 6.6 Diagnostics and troubleshooting

#### The system will not turn on

Check all connections. Check whether the battery is sitting correctly in the docking station in the frame and whether the battery lock is engaged.

#### The system can be turned on, but does not give any electric motor support

Check all connections from and to the rear wheel motor.



**Please note! In case it is not possible to solve the problem, please contact your local Klever dealer or our technical hotline.**



Image 38



Image 39



Image 40



Image 41

## 7. Bicycle parts of the Y Muse

All other components of your Y Muse 25 are high quality, conventional bicycle components whose handling and operation should be explained here briefly. Important information regarding the adjustment, operation and maintenance of your E-bike and its accessories are summarised here. You will also find additional information in the accompanying user manuals of the component suppliers

### 7.1 Adjustment of saddle and handlebar

The Y model comes in two frame sizes (M=Medium and L=Large). The adjustment to your body size will be made with the adjustment of the saddle, stem and handlebar. Your dealer can do this on the spot. In order to readjust by yourself or in the case of another cyclist, changing the settings is briefly described below:

**Caution!** All work described requires mechanic experience and appropriate tools. Use a torque wrench to tighten the bolts and never exceed the maximum torque of the bolts. All necessary tooling and information on the recommended torque can be found in section 11 Technical Data.

#### Adjustment of the saddle height

The optimal saddle height is if you touch the pedal with the heel of your stretched leg, when sitting on the saddle (image 38). Or when you bring the ball of your foot to the centre of the pedal, your knee should be slightly bent (image 39).

Loosen the seat clamp bolt with a 6 mm. Allen key (image 40) and move the seat post with the saddle to its proper height. Align the saddle with the frame using the saddle nose and the bottom bracket or the frame tube as references. Fasten the bolt of the seat clamp again and check the correct height of the saddle. Repeat the process if necessary until you find the correct saddle height.

The distance between saddle and handlebar (by pushing the saddle forward or backward) and the saddle angle are adjusted with the 2 saddle clamping bolts of the seat post and a 5 mm. Allen key (image 40). Generally, the saddle should be positioned horizontally.



**Please note!** please pay attention to the recommended torque when tightening the various bolts (see chapter 11 Technical data).



**Caution!** The seat post may never be installed over the minimum insertion mark. Otherwise the post could possibly break during riding, which could lead to injuries (image 41).

#### Handlebar adjustment

The handlebar can be adjusted to your personal preferences, by changing the angle of the handlebar stem and the height of the handlebar (image 42). Your Klever dealer will be happy to set the handlebar to your liking. However, in case you intend to adjust the handlebar by yourself, then proceed as follows:

Loosen the big main M8 bolt of the stem with a 6 mm. Allen key and adjust the angle of the stem and the position of the handlebar (image 42). Tighten the M8 bolt with the proper tightening torque. Also, please note that the change of the stem angle has not only changed the position of the handlebar. It has changed the position of the brake levers, the display and shifter too!

You may want to correct the position of these components as well. Loosen the 2 M5 bolts on the bottom side of the head of the stem (image 43). And loosen the various bolts and screws of display, brake levers and shifters with the proper keys. Adjust the position of these components (image 44) and tighten the bolts and screws. Make sure that while sitting on the E-bike and putting your hands on the handlebar, your wrists are in a relaxed position and not forced outward. Repeat the process if necessary until you find the correct position of your hands and wrists.



**Caution!** Please check whether the handlebar is correctly tightened. You should not be able to twist the handlebar while putting force on the grips.



Image 42



Image 43



Image 44



Image 45

## 7.2 The suspension front fork

The Y Muse 25 is being equipped with a suspension front fork, which improves the riding comfort. This front fork is pre-set with factory settings. With a lockout button on the righthand fork leg you can turn off the suspension (image 45). It is best to use the lockout only on smooth and straight roads and always use the suspension on badly paved roads.

For the long-term proper functioning of the front fork regular maintenance is required. Some basic tips for maintenance: clean the smooth surfaces of the stanchion tubes with a cloth and a little water. After cleaning spray some water-repellent oil on the stanchion tubes for lubrication of the bushings and for a plush suspension function.

**Caution!** Never use a high-pressure cleaner or aggressive detergent for the maintenance of the front fork. Pay attention to the maintenance instructions in the manual of the fork supplier.

## 7.3 Disc brakes

Your Y Muse 25 is being equipped with high-quality hydraulic disc brakes (image 46). These disc brake have very excellent braking performances even under rainy weather and other bad weather conditions. The disc brake has very low maintenance and does not wear the rim. The brake consists of a brake lever with a master cylinder, a brake hose, the brake calliper and the disc rotor mounted on the hub. While actuating the brake lever, the oil pressure is being transmitted through the hose into the brake calliper. This makes the brake pads contact the disc rotor.

**Please note!** New brake pads must be run-in in order to achieve their best deceleration values. By braking at least 30 times from approximately 30 km/h to complete standstill the brake pads will achieve their maximum brake power.

Not properly run-in brakes do not reach their best deceleration values and are prone to vibrations and loud squeal.

The brake pads and disc rotors must be regularly checked for wear. If discs and brake pads are worn, they will need to be replaced. In case the brake performance is getting less and you are losing brake power or you can push the brake lever through to the handlebar without any braking



Image 46

effect, the brake system must be bled (purged). That and the replacement of worn brake pads and disc rotors is better left to authorised Klever dealers.

**Caution!** In case the brake performance is decreasing or the system shows signs of leakage, do not continue to ride your Y Muse and go and see your local Klever dealer immediately.

**Please note!** Oil or grease on the brake pads and disc rotors will reduce the effect of the brake substantially. Prevent in any case, while cleaning the bike and lubricating the chain that oil or other liquids can contaminate the brake pads and disc rotors.

Contaminated brake pads cannot be cleaned and need to be replaced immediately. You can clean the disc with brake cleaner or warm water and a little detergent if necessary.

**Please note!** Ride more cautiously under humid and rainy conditions because the stopping distance could be longer.

## 7.4 Mechanical drive train and gearshift

Your Y Muse 25 has a 10-speed derailleur drive train. Currently a very efficient power transfer for your bike. These gears will help to always use the optimal transmission (pedalling & cadence) independent of terrain (flat or hilly area) and independent of weather (tail- or headwind). You are able to pedal always with an optimal cadence of 60-80 crank revolutions per minute.

The complete drive train is composed of the bottom bracket, the crank set, the rear derailleur, the chain, the gear shifter and the 10-speed cassette (image 47). With the gear shifter (image 48) you control the rear derailleur, which ensures that the chain can move on the sprockets of the cassette.

Your dealer has checked your bike before the handover and has adjusted the shifter. During the first miles however, the shift cable could lengthen slightly and the shifter may become misaligned and may have to be readjusted. With the adjustment screw of the rear derailleur, you can readjust the tension of the shift cable (image 47 & 48).

With the two positioning screws on the rear derailleur, you can adjust the lower (H screw) and upper end stop

(L-screw), to make sure that the chain cannot get between the smallest sprocket and the frame or between the largest sprocket and the spokes of the rear wheel.



Image 47



Image 48





**Please note! The precise adjustment of the derailleur and shifter is difficult and should better be done by an experienced mechanic. In case you have any problems adjusting the shifter and derailleur, please contact your local Klever dealer.**

The chain should be cleaned and greased regularly (especially after riding in the rain), so it runs as quietly as possible, the friction losses are as low as possible, and the lifetime is maximised. Clean the chain regularly with a clean cotton cloth and lubricate it afterwards. Some minutes after you have oiled the chain, rub it with the cloth to remove superfluous oil from the outer surface. Since the chain is one of the bike parts that wears out your, it should be replaced, if worn. A worn chain has poor shifting characteristics and leads to increased wear of the chain wheel and the sprockets of the cassette.



**Please note! The control of the chain wear should be carried out at the dealer's workshop. They have the necessary tools to measure the wear and replace the chain.**



Image 49

Additional information on rear derailleur and shifter, their adjustment as well as on chain and crank set you will find in the enclosed manuals of the suppliers of these components.

## 7.5 Lighting

The lighting of your Y Muse 25 corresponds with the Belgian & Dutch Road Traffic Act; it has an official mark: indicated by the letter K. The lighting is supplied by the battery power of the vehicle. The headlight is a LED with high output and stand light function (image 49). The taillight is a bright LED too with stand light function (image 50).

In case of lighting failure please verify that the light switch on the display is switched to "On", check all contacts at headlight and taillight. Check all cables for damage. If you don't find any errors, you should be looking for repair at an authorised dealer immediately.



**Please note! A non-functioning light is illegal and endangers your life on the road. Bicycles and E-bikes without lights are easily overlooked in the dark. You would risk serious accidents.**



Image 50

More information on the headlight and the taillight can be found in the enclosed supplier's manual.

## 7.6 Wheels and tyres

The wheels are one of the most stressed components of the vehicle. They contact the road, they provide propulsion and they absorb the road bumps. Due to the heavy use, they should be regularly checked. In case of radial or axial play or broken spokes, the wheels should be repaired or trued by an authorised Klever dealer.

For removal and installation of the wheels due to a puncture or in case of transportation of your Y Muse you take the steps as described below.

### Removal of the rear wheel

- Shift the chain to the smallest sprocket on the cassette.
- Turn off the electric drive system.
- Loosen the bolt of the mounting bracket of the motor connector (cable guide) on the inside of the left-hand chain stay with a 4 mm. Allen key (image 51). Disconnect the plugs of the motor connector.
- Loosen the axle nuts on either side of the motor with a 19 mm. wrench (image 52).
- Now pull the wheel out of the dropout, while pivoting the rear derailleur backwards.
- Block the brake pads of the disc-brake by inserting the enclosed pad separator into the calliper (image 53). This prevents accidental compression of the pads by unintended application of the lever while the disc rotor is being removed.
- Assembly of the rear wheel is done in reverse order.
- After having removed the pad separator, make sure to insert the disc carefully between the brake pads during assembly.



Image 51



Image 52



**Caution! Take care to tighten the axle nuts to the proper torque (40 Nm) and make sure there is sufficient space (at least 5 mm.) between the disc rotor and the motor cable.**

### Removal of the front wheel

- First open the lever of the quick release. Then turn the thru axle counter clockwise and take it out of the front wheel (image 54).
- Pull the front wheel out of the fork.
- Block the brake pads of the disc-brake by inserting the enclosed pad separator into the calliper (image 53).



Image 53



Image 54

- The assembly of the front wheel is done in reverse order.
- During assembly, please insert the disc brake rotor carefully between the two brake pads.
- Pay attention to the correct torque of the thru axle (20 Nm).

**Please note! Disc brake rotors can be very hot after riding. Let them cool down prior to disassembly.**

### Tyres

The tyre size can be found on its sidewall printed specifically in millimetres and inches: 27.5" x 2.40" or 62 – 584 mm. The wheel has a diameter of 584 mm. (27.5") and a width of 62 mm (2.40").

**Please note! The recommended tyre pressure is indicated on the sidewall of the tyres (Schwalbe Super motor 2,0 – 4,0 bar; 30 – 55 Psi).**

**Please note! Regularly check the correct tyre pressure and pressurise your tyres if necessary.**

**The tyre uses an inner tube with Schrader valve. So, you can check and inflate the tyre at any gas station.**

**Caution! Above or below, never exceed the recommended air pressure range. The tyre and the tube can be damaged and this may lead to sudden loss of air with significant risk of an accident. Too low tyre pressure also causes higher rolling resistance. As a consequence, this reduces the range of your battery.**

### Disassembly, repair & assembly of the tyres

Regularly check the tyres for cracks and for its thread pattern height. If you find that cracks or sharp object have damaged the fabric of the tyre or the thread pattern is no longer sufficient, replace the tyres. If in doubt, ask your Klever dealer who can verify the tyre and replace it.

In the case of a flat tyre, you do as follows:

- Always use plastic tyre levers.
- Remove the wheel as described above.
- Deflate the tyre and push a tyre lever underneath the tyre bead opposite of the valve and lift the tyre over the rim flange.
- Push the second tyre lever underneath the tyre bead in a distance of approximately 10 cm. from the first one (image 55). If the tyre is still very tight around the rim, then use a third tyre lever as well.
- Now, you can lift the tyre over the whole circumference of

the rim with the help of one of the levers. And the inner tube can be removed.

- Dip the disassembled and inflated inner tube into a bucket of water in order to discover the leak on the rising air bubbles.
- Repair the tube according to the instructions on the repair kit or if necessary, replace it. In case of replacement, make sure you buy the correct size inner tube.
- Check the inside of the tyre for sharp objects that could have caused the puncture and remove them. If the fabric of the tyre is damaged, replace it too.
- Start the mounting of the inner tube by inserting the valve into the valve hole in the rim and inflate the tube with very little air pressure until it is wrinkle-free.
- Now mount the inner tube without any creases underneath the tyre (image 56)
- Starting opposite to the valve, lift the tyre bead over the flange of the rim and pull it deep into the rim. Lift the rest of the tyre by hand over the rim's shoulder. Use no tyre levers, as this may damage the inner tube.
- Push the valve a little back into the tyre, so that the bead of the tyre is correctly seated in the rim.
- Pull the valve back again and inflate the inner tube to recommended tyre pressure.



Image 55



Image 56



Image 57

## 7.7 Luggage carrier and transport of luggage

Your Y Muse 25 has a robust and durable aluminium luggage carrier (image 57). The carrier is compatible with all standard panniers, and you can use an extensive range of accessories. Please note, however, the maximum load capacity of the luggage carrier is 25 kg.



**Caution!** When transporting luggage make sure that you do not exceed the total permitted weight of E-bike, cyclist and luggage being 150 kg.



**Please note!** The additional weight of luggage on your rear carrier changes the handling of the bike and extends the braking distance too.

## 7.8 Lock and anti-theft protection

Your Y Muse 25 comes with a motor lock and immobiliser combined with an acoustic alarm system. The battery can only be removed from the frame by unlocking the battery lock with the key (see section 6.5.3). We recommend that you use an additional robust chain lock in order to be able to lock your E-bike to solid fixtures.

## 7.9 Accessories

Useful accessories can enhance the functionality of your Y Muse 25 and significantly increase your riding pleasure. For instance, there is a dedicated light weight front rack which can be assemble on the head tube. These accessories are available at your Klever dealer.



**Please note!** Accessories must be compatible with your Y Muse 25 E-bike. Incompatible accessories may influence and alter the riding characteristics of your bike and can lead to accidents. Best ask your dealer for information and advice.

## 7.10 Child seat

In Belgium and the Netherlands, you may carry children up to the age of 8 years only with a decent back support. Therefore, on your Y Muse 25 carry children only with a child seat. You should install child seats with an appropriate DIN / GS approval only. Read and adhere to the instruction manuals of the seat manufacturer. If traveling in other countries, check the local rules and regulations. For instance, in Germany the rules are slightly different from those in Belgium and the Netherlands.



Image 58



**Caution!** In case of parking your Y Muse 25, never leave your child in the child seat. Take the child out of the seat.



**Please note!** Make your child wear an appropriate helmet. And always keep in mind that a child seat with a child will greatly affect the handling of the E-bike. The bike tends to lurch. Therefore, you should practice starting and riding it before taking part in road traffic. Do not exceed the maximum permitted weight of E-bike, cyclist and cyclist of 150 kg.

## 7.11 Bicycle trailer

Nowadays there is a wide variety of bicycle trailers with which you can safely transport children and luggage towed behind your Y Muse 25. Prior to purchasing one, make sure that the trailer meets the requirements of the Road Traffic Act. That it is not wider than 1 meter. That it can be safely connected to the Y Muse 25 and that the maximum payload of the bicycle trailer must not be exceeded under any circumstances.

Please take the time to confer with your Klever dealer and carefully read through the operating manual and safety instructions of the bicycle trailer before use! Finally make sure to practice riding with the trailer on a parking lot before participating in road traffic. In case you will ride your Y Muse 25 with a bicycle trailer in other countries, please check the local rules and regulations.



**Caution!** The additional load of the bicycle trailer greatly affects the handling of your Y Muse 25. It will also extend the braking distance of your E-bike and it will decrease the range of your battery pack.

## 8. Transport of your Y Muse 25

You can transport your E-bike easily by car or train. For transport by car, we recommend to use a tow bar bike rack, which is specifically designed for the transport of E-bikes and for heavier loads. Please ask your Klever dealer for more specific recommendations.

Not recommended is the transport on the car's roof. The heavier weight and the special frame tubes prevent you from stably fixing the E-bike on a roof rack. In addition, the weight of the E-bike is usually higher than the maximum weight limit of the car roof rack.

Prior to transporting your vehicle with a tow bar rack, you should remove the battery pack as well as other non-fixed accessories such as air pump and panniers. Additional protection should be given to electrical contacts of the battery connector on the frame. This can be done with a plastic bag to protect those parts from moisture and rain. Air flow may cause the moisture to enter into the electric system.

In case your car is big enough, then it is best to transport your Y Muse 25 inside your car. That offers the best protection. The transportation by air is nearly impossible, unless you want to transport the E-bike without the battery. For airlines these batteries are classified as hazardous goods and consequently will not be transported. To be sure, ask your airline under which conditions the transport of the battery may be allowed. However, this could be quite expensive. For more information on the transport of the battery, please check section 6.5.4. Transport of the battery.

## 9. Maintenance, care and storage

### Maintenance

Regular maintenance and care guarantee a longer lifespan of your Y Muse 25. You should regularly carry out simple cleaning and care yourself and let the dealer do the necessary inspections. Never clean the E-bike with a high-pressure cleaner or a steam cleaner, as water may enter bearings, motor and electronic contacts. Water could damage these parts due to corrosion and short circuits. Clean your bike with a damp cloth and a mild detergent. Please make sure that no electrical contact gets wet. The contacts can be maintained and conserved from time to time with a little care oil (e.g., 1-Step Finish Line). Contact spray is too aggressive and doesn't preserve.

You should repair varnish damages at once. All parts liable to corrosion should be maintained and preserved by appropriate means. The chain should be lubricated regularly like all other turning mechanical parts such as the joints of the rear derailleur.



**Caution! During cleaning and lubrication, avoid contact with oil and fat on the brake pads and disc brake rotors. The stopping power might deteriorate and could represent a serious risk.**



**Please note! Always ensure that the tyres are inflated within the manufacturer's recommended operating pressure, which can be found on the tyre's sidewall. Never go over or under the recommended range of tyre pressure**

The entire electrical system of your E-bike, such as the motor, the sensors, the wiring harness and the battery are maintenance-free. In case you meet unexpected problems with the system, contact our technical hotline (see also section 1 Introduction) or consult an authorised Klever dealer.



**Caution! Do not open the motor, the display or the battery. It is dangerous and this will immediately void the warranty.**



**Storage**

The storage of the bike should always be in a dry, covered place to minimise the effects of weather and avoid direct sunlight. In case you do not ride your Y Muse 25 in winter, you should consider following:

Store your bike well cleaned, lubricated and well preserved in a dry place and cover it with a tarp. Protect the electrical contacts with a little care oil (e.g., 1-Step Finish Line).

Winter storage in a garage is not ideal. Salt from salt spraying may enter your garage with your car. And this salt could cause corrosion of your bike.

The battery should be stored separately, ideally at a temperature of 10 ° to 15 ° Celsius in a dry place. Please fully charge the battery before the first ride in the spring. And after storage for more than two months, it is advised to recharge the battery (see section 6.5.1 Charging of the battery).

**10. Disposal and transportation****Disposal**

All electronic components, such as motor, display, battery and charger are to be returned to an environmentally friendly recycling. These parts should not be considered household waste or abandoned into the environment.



**According to the European Directive 2002/96/EC, defective or no longer usable electrical equipment must be collected separately and returned to an environmentally friendly recycling. The same goes for batteries according to the European Directive 2006/66/EC. Please return broken or defective batteries to an authorised Klever retailer.**

**Transportation**

Only the battery is considered to be hazardous and subject to the Dangerous Goods Legislation requirements during transport or shipping by third parties (agents, air transportation or mail). Please refer to section 6.5.4.

Transport of the battery. The transport of all other parts of your Y Muse 25 is not particularly limited

## 11. Technical data

<b>Display:</b>
Illuminated colour LCD-display, with starter & motor immobiliser and acoustic alarm
5 levels of electric motor support
N – ECO – TOUR – MAX – TURBO
Bicycle computer: current speed, range, trip, km-day, time, Kcal, odo, cadence
Button for: walk-assist/ acceleration at standstill without pedalling / Turbo function while pedalling
Battery state of charge with 5 bars (each bar representing 20% battery capacity)
Ambient light sensor
Actuation of buttons confirmed with acoustic beep

<b>Rechargeable battery:</b>
Lithium-Ion
44.4V/ 12.9 Ah/ 570 Watthour
44.4V/ 19.1 Ah/ 850 Watthour (optional)
570 Wh: 4.5 kg.
850 Wh: 5.5 kg.
State of charge indicated by LED: < 35% red / 35 - 75% yellow / > 75% green
Allowable discharge temperature: -20°C – +50°C
Allowable storage temperature (12 months): -20°C – +25°C; (optimal +5°C – +20°C)
Allowable charging temperature: -5°C – +45°C (optimal +5°C – +20°C)
Lockable and detachable
Charging time: 570 Wh: 7h with 2A charger
Place of charging: on or off bike
Charging cycles: 700 (one charging cycle is 0 – 100% capacity)
Lifetime: after 2 years or 700 cycles at least 60% of the original capacity still remains

<b>Motor:</b>
Brushless DC motor in the rear hub
Control through torque sensor in the frame dropout and speed sensor in the bottom bracket
Output power: 500 Watt, limited through software to 250 Watt
Operating voltage: 44 V
Electric motor support: until max 25 km/h
Weight: 5.20 kg.

<b>Standard 2A charger:</b>
Input voltage: 200 – 240 V; 47 - 63 Hz
Output voltage: 48 V
Maximum charge current: 2A
Output power: 96 Watt
Charging time: 7h for 570 Wh battery
Size: 167 x 65 x 41 mm without fan
Weight: 0.6 kg (incl. AC adapter)

### Recommended tightening torques for bicycle components:

<b>Head set</b>	Clamp bolt steerer tube	1 x M5	Allen key 4 mm.	5.5 Nm.
<b>Stem</b>	Clamp bolt handlebar	2 x M5	Allen key 4 mm.	5.5 Nm.
	Clamp bolt steerer tube	2 x M6	Allen key 6 mm.	9.5 Nm.
	Clamp bolt adjusting stem angle	1 x M8	Allen key 6 mm.	22 Nm.
<b>Front rack (optional)</b>	Mounting bolt for assembly of front rack	4 x M6	Allen key 4 mm.	9.5 Nm.
<b>Seat post</b>	Clamp bolt for saddle	2 x M6	Allen key 5mm.	9.5Nm.
<b>Seat post clamp</b>	Clamp bolt for seat post	1 x M6	Allen key 6 mm.	9.5Nm.
<b>Front wheel</b>	QR thru axle	1 x M15	QR-lever	20 Nm.
<b>Rear wheel</b>	Bolted axle	12 mm. as diam.	19 mm. wrench	40 Nm.
<b>Kick stand</b>	Mounting bolt	2 x M6	10 mm. wrench	9.5 Nm.
<b>Brake lever</b>	Clamp bolt	1 x M6	Allen key 5 mm.	9.5 Nm.
<b>Brake calliper</b>	Clamp bolt	2 x M6	Allen key 5 mm.	9.5 Nm.
<b>Brake rotor</b>	Mounting bolt	6 x M5	Torx key 25	5.5 Nm.
<b>Shifter</b>	Clamp bolt	1 x M5	Allen key 4 mm.	5.5 Nm.
<b>Rear rack</b>	Mounting bolt	4 x M5	Allen key 4 mm.	5.5 Nm.
<b>RH pedal</b>	RH threading	9/16" x 20 TPI	15 mm. wrench	40 Nm.
<b>LH pedal</b>	LH threading	9/16" x 20 TPI	15 mm. wrench	40 Nm.
<b>Bottom bracket RH side</b>	RH threading	1.37" x 24 TPI	Dedicated tool	40 Nm.
<b>Bottom bracket LH side</b>	LH threading	1.37" x 24 TPI	Dedicated tool	40 Nm.
<b>Crank set</b>	Mounting bolt	9/16" x 20 TPI	Allen key 8 mm.	40 Nm.
<b>Crank set</b>	Cover bolt		Allen key 10 mm.	5.5 Nm.
<b>Derailleur</b>	Mounting bolt	1 x M10	Allen key 5mm	9.5 Nm.
	Mounting bolt derailleur cable	1 x M5		5.5 Nm.
<b>Head light</b>	Mounting bolt	2 x M4	Allen key 3 mm.	3.0 Nm.
<b>Motor cable</b>	Mounting bolt	1 x M5	Allen key 4 mm.	5.5 Nm.

**General tightening torques for normalised metrical hexagon bolts (grade 8.8):**

Bolt	M4	M5	M6	M8	M10
Torque in Nm	3.0	6.0	10.0	25	50

These torque indications always refer to the upper limit of the bolt's resilience. Use a proper torque wrench when tightening or adjusting a bolt. This will prevent the overcharging and failure of the bolt. Always adjust the torque key to a little more than 75% of the value stated by the manufacturer and tighten the bolt. Check the firm fit. In case the clamping connection is not strong enough, increase the value gradually in steps of 0,5 Nm. If necessary, adjust the maximal value (never exceed it) and loosen the bolt by half a revolution before finally tightening it.

**Tools (image 59):**

1. Allen keys
2. Combination wrenches
3. Sockets and bits
4. Torque wrench
5. Torx key
6. Tyre lever



Image 59

**The gross vehicle weight of the Y Muse 25**

Cyclist + E-bike + luggage = 150 kg.

**Tyres:**

Size: 62 – 584 mm. (27.5" x 2.40")

Recommended tyre pressure: 2.0 – 4.0 bar (30 – 55 Psi)

Wheel circumference approximately 2225 mm., the exact circumference depends on the tyre pressure and the gross weight of cyclist + E-bike.

**12. Product liability and warranty**

According to European warranty laws you are entitled to a period of 2 years for product liability, duty of care and warranty from the side of the manufacturer. This applies from the date of purchase or delivery of the Y Muse 25. The proof is the proof of purchase, which should be stored carefully. You should register your bike on our website: [www.klever-mobility.com](http://www.klever-mobility.com). This product liability for material defects applies to all components of the entire E-bike.

**Warranty claims are granted:**

- In case the defect was present prior to the purchase of the E-bike.
- In case of a material, manufacturing or information defect.
- In case of function-related wear which was not caused by regular tear and wear (see section 14 Wear and tear).

**Warranty claims are rendered void:**

- In case of damages caused by accidents or force majeure.
- In case of damages caused by misuse or improper use.
- In case claims relate to parts which are subject to functional wear (see section 14), except material or product defects.
- In case of damages caused by faulty and inadequate care and maintenance.
- In case of damages caused by faulty and inadequate repairs.
- In case of damage caused by components which were out of specification and assembled after purchase of the bike.
- In case of consequential damage caused by not immediately resolved, earlier identified defects.

In addition, we offer a **comprehensive warranty** that goes beyond the liability for material defects:

- **Two-year warranty** on all bike components.
- **Three-year warranty** on all components of the electrical system: motor, control unit, display and wiring harness.
- **Two-year warranty** on the battery (also refer to the points below).
- **Five-year warranty** against frame breakage.

This warranty applies only to the first owner of the Y Muse 25 on presentation of proof of purchase (sales receipt or bill showing the purchase date). This warranty covers exclusively material and workmanship errors. In case of justified complaints, the article will be replaced or repaired. Further claims such as: replacement of property damage, downtime, cost of borrowing and renting, travel and transportation costs or loss of profits, are excluded. This warranty does not cover damages caused by misuse function, by wear and tear, by accidental damage, vandalism and by improper assembly or repair.

1. Warranty repairs will be made exclusively by Klever Mobility or an authorised Klever dealer.
2. Costs from a previously executed repair of an unauthorised dealer, will not be reimbursed.
3. Parts replacement or repairs during the warranty period will not result in an extension or a new beginning of the warranty..
4. Each battery is subject to a natural aging process. Regarding the battery Klever Mobility guarantees after two years, or alternatively, after 700 charging cycles a remaining capacity of about 60% of the original capacity.
5. In case you officially register the battery of your Y Muse 25 on our website ([www.klever-mobility.com](http://www.klever-mobility.com)) Klever extends the warranty term of your battery from 2 to 3 years. Within this term we guarantee that your battery still has 50% of its original capacity after 500 charging cycles.
6. The two-year warranty begins on the date of purchase.
7. A warranty claim must be notified immediately.

## 13. Intended use of your Y Muse 25

Your Y Muse is designed according to structural requirements for a particular purpose. Thus, the usage is

limited to specific areas. Your E-bike is designed based on the construction and equipment for use on public roads, normal paved roads. It is equipped in accordance with the Belgian and Dutch Road Traffic Regulations. And therefore, it is allowed to ride on public roads. In order to keep your bike always running and roadworthy, regular reviews and inspections are required or necessary repairs should be made immediately. Klever Mobility is not liable in case the Y Muse is used against its originally intended purpose nor for damages resulting from a breach of important instructions in this manual.

This is particularly true in case of damage caused by overloading or off-road riding or by the improper repair of defects. The same applies to non-compliance with the maintenance, operation and maintenance requirements described in this manual.

## 14. Wear

Your Y Muse 25 consists of many components, which are all subject to normal wear due to their function. Therefore, all following components should be regularly checked and if necessary, replaced immediately:

1. **Brake discs and pads** are put under stress during each braking operation and wear as a consequence. Therefore, they must be periodically inspected and if necessary, be replaced immediately.
2. **Tyre and inner tubes** are subject to function-related wear and should be checked regularly. Regularly check the air pressure and tread depth. The air pressure should always be at the manufacturer's recommended operating pressure, which is printed on the tyre sidewall. In case the tread profile of the tyre is no longer deep enough or the tyre has cracked sidewalls, it should be replaced.
3. **Rims and spokes** are stressed while braking or riding over obstacles. Regularly check the concentricity of the rim and the spoke tension. If the wheel has radial or axial play, this should be readjusted immediately. In the event of spoke breakage, the broken spoke should be immediately replaced and the wheel has to be centred.
4. **Chain, sprocket, chain wheels** and derailleur pulley wheels wear out normally. Regular cleaning and lubrication of these components will extend their service life substantially. They should, however, in case they are worn be replaced.
5. **Shifting cables and brake hoses** must be maintained regularly and replaced if necessary. Especially in the case if the e-bike is often parked outdoor and exposed to the weather.
6. **Hydraulic oils and lubricants** change over time and lose their effectiveness. Therefore, all lubrication points are to be regularly cleaned and re-greased in order to minimise the wear.
7. **Paintwork** requires regular care. Check all paintwork for damage and rectify the damage. Brake and shifter cables can rub the painted surface of the frame. Protect those spots with a transparent foil.

## 15. Legal requirements for participation in traffic

To participate in public transport, the Y Muse 25 has been be equipped according to the requirements of the Belgian and Dutch Road Traffic Regulations. Your E-bike has a bright sounding bell, two independently functioning brakes and a complete lighting system with a head light and a tail light.

In case the Y Muse will be ridden or purchased in another country than Belgium or the Netherlands, familiarise yourself with its national road traffic regulations.

## 16. Regular maintenance and inspections

In order to keep your Y Muse 25 always roadworthy and updated to the latest technical status, it should be inspected regularly. We recommend after 500 - 1,000 km. or within 1 year after purchase to carry out the first inspection. Any further inspections should be carried out after every 2 to 3,000 km. or at least once a year.



**Please note! Inspections should be made by authorised Klever dealers.**



**Caution! In case inspections are not carried out or executed unprofessionally, this may significantly impair the functions of your E-bike or may even lead to severe accidents.**

## 17. FAQ's

### How far can I travel with one battery charge?

This depends on the outside temperature, the topography of the terrain, the technical condition and total weight of the bicycle. Tyres with low air pressure or high weight or riding in hilly terrain, reduce the range (see section 6.5.2.).

Battery	Range
570 Wh	40 - 125 km.
850 Wh	75 - 165 km.

This chart offers a proper indication of the range you may expect under similar conditions:

- Outside temperature 12 – 30°C.
- Flat and slightly hilly terrain.
- Total system weight between 95 – 105 kg. (cyclist's weight 70 – 80).
- Little to no wind.

### Must the battery be empty before I can charge it?

No, you can charge the battery at any time, even if it is only partially discharged.

### How can I protect my Y Muse 25 from theft?

Your E-bike comes with starter and motor immobiliser. This electronic lock is combined with an acoustic alarm system, to be activated with the Lock-button on the display. The battery can only be removed from the frame by unlocking the battery lock with the key. We recommend to also use a robust chain lock in order to be able to lock the E-bike to the solid fixtures.

### Can I ride my Y Muse 25 in wintertime?

In general, there is no problem whatsoever to ride your E-bike at low temperatures. Store your battery in a warm place before you start your journey. Keep In mind that in wintertime at low outdoor temperatures the range may decrease by 30%.

### Can I transport my Y Muse 25 via air?

Because E-bike battery packs are being classified as

hazardous goods for transport via air, many airlines refuse to transport the battery. In individual cases you may want to ask your airline, under which conditions and costs transport may be possible.

**Do I need an insurance and do I need to wear a helmet?**

No, you do not need an insurance. Because the electric support will be stopped at 25 km/h, the Y Muse 25 is classified as an EPAC, an Electric Pedal Assisted Cycle. Therefore, it is considered as a regular bicycle and requires neither insurance nor wearing a helmet. However, we do recommend that you use a helmet for your own safety.

**What to do with a defective battery pack?**

Defective batteries do not belong in household waste and must be disposed of properly. It is best to take it to an authorised Klever dealer.

**How many times can I charge my battery?**

We guarantee that the battery after 700 full charge cycles or two years from the date of purchase still has 60% of its original capacity. Of course, you can charge the battery more often or use longer than two years. Because of the natural aging process over time the battery loses more and more capacity.

**Does the warranty void, in case I do not stick to the recommended time intervals for inspections?**

No, the warranty does not void. We recommend, however, for your own safety to carry out all recommended inspections.

**Can I charge the battery with another charger?**

No, the battery may only be charged with the dedicated, supplied charger.

## 18. Bicycle passport

Fill out immediately all data after purchase in order to present the pass in the case of warranty claims, together with proof of purchase. In case your Y Muse 25 ever gets stolen, these data will facilitate the work of the police.

**Name**

---

**Street**

---

**Postal code / residence**

---

**Phone**

---

**E-mail**

---

**Klever model**

---

**Frame size**

---

**Frame colour**

---

**Frame serial number**

---

**Key serial number**

---

**Battery serial number**

---

**Charger serial number**

---

**Date of purchase**

---

**Signature**

---

## 19. Inspection plan

<b>1. Inspection</b>	<b>Date:</b>
After 500 – 1,000 km or no later than 1 year after purchase.	
<b>Date</b>	<b>Stamp / signature</b>
<b>Repairs</b>	
<b>Components replaced</b>	
<b>2. Inspection</b>	<b>Date:</b>
After 3,000 – 4,000 km or no later than 2 years after purchase.	
<b>Date</b>	<b>Stamp / signature</b>
<b>Repairs</b>	
<b>Components replaced</b>	
<b>3. Inspection</b>	<b>Date:</b>
After 5,000 – 7,000 km or no later than 3 years after purchase.	
<b>Date</b>	<b>Stamp / signature</b>
<b>Repairs</b>	
<b>Components replaced</b>	
<b>4. Inspection</b>	<b>Date:</b>
After 7,000 – 9,000 km or no later than 4 years after purchase.	
<b>Date</b>	<b>Stamp / signature</b>
<b>Repairs</b>	
<b>Components replaced</b>	



## 20. Imprint

Editor, photography, text, graphic design and text:

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