



BOSCH

Invented for life



Products

Bosch eBike Systems
2017

EN



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Getting Outdoors

People go on journeys, discover and explore – they experience adventure. For many people, a gentle electric tailwind will make their future adventures a whole lot easier.

Inside The City

Towns, cities, urban spaces – places for making encounters. They define people and societies. eBikes are increasingly becoming an essential part of urban mobility.

Forward Thinking

A look into the future: How will we live, work, move around? There are so many things we are having to rethink.

Bosch eBike Systems Overview

The on-board computer, Drive Unit and PowerPack harmonize like a well-drilled team. The perfectly coordinated interplay between all of the components achieves a high degree of efficiency and comfort for the rider.



Nyon
The Nyon all-in-one on-board computer combines navigation, eBike control, riding data and so much more in a single device. You can use the *eBike Connect* app to connect Nyon to your smartphone via Bluetooth. You can create your own personal, networked, interactive eBike experience on the *ebike-connect.com* online portal.



Intuvia
Intuvia offers optimized operating comfort. The device is intuitive to use and the display is easy to read, even in direct sunlight so you are guaranteed a clear view of all riding data at all times. Intuvia reliably informs you about your speed, distance, riding time and the current range.



Purion
The compact purist among on-board computers incorporates a display and control panel in a single device – for all those who wish to focus on the most important information. The display provides a clear overview of the charge status, speed, ride mode, range, trip distance and total distance.



Standard Charger



Compact Charger



Travel Charger



Performance Line CX
Setting the standard among sporty eMountain bikes in the countryside and mountains. The Performance Line CX allows sporty, dynamic acceleration, even over alpine terrain.



Performance Line Cruise/Speed
Outstanding support in every situation for even more fun in the saddle – up to 25 km/h with the Performance Cruise drive unit or 45 km/h with the Speed model. Ideal for tour riders and commuters.



Active Line Cruise
The harmoniously agile power delivery of the Active Line guarantees a safe, reliable riding experience up to 25 km/h. Also available with optional backpedal function. Ideal for everyday use.



NEW

DualBattery
Available for Performance Line CX, Performance Line and Active Line – in a combination of either two frame batteries or one frame and one rack battery. Double your range with the Bosch DualBattery.



PowerPack 500/400/300
The high energy density, mileage, long lifetime and simple handling of the modern Bosch lithium-ion batteries are extremely impressive.

New Features 2017



Purion
Design meets functionality: Purion is a display and control unit in one. The ergonomic 2-in-1 on-board computer provides you with a constant overview of the most important information. Five different riding modes give you just the right amount of assistance in every situation.



DualBattery
Ideal for tour riders, long-distance commuters and cabby bikers: Intelligent control software delivers power from two PowerPacks connected in series to achieve battery capacities of up to 1,000 Wh.



Compact Charger
The Compact Charger weighs less than 600 grams and is 40% smaller than the Standard Charger – small enough to fit into any saddlebag and ideal for eBikers who travel frequently.

Nyon

New dashboard

The new Nyon user interface makes the Nyon more convenient and comfortable to operate. A clear display shows your most recent activities, for example.

Topographical range

The topographical residual range is a map-based display of your own personal range. All the relevant riding data is included in the calculation.

Compatible with eShift

eShift is now also available with the Nyon on-board computer. The electronic solution for integrated gear shifting provides greater riding enjoyment and comfort, both on overland tours and when riding in the city.

Performance Line CX and SRAM EX1

EX1 by SRAM is the gear system for sports enthusiasts. Developed specially for eMountain bikes, it has been perfectly adapted for the Performance Line CX. System characteristics include maximum durability, excellent climbing properties and an outstanding shifting performance, even under full load.

eShift (45 km/h)

The electronic solution for integrated gear shifting – now also available on 45 km/h Speed Pedelecs with the NuVinci Optimized™ Harmony H|Sync™. eShift is available with Nyon and Intuvia on-board computers.

Light Support

A more powerful light for enhanced safety. More light, improved safety. Light Support generates a maximum light intensity of 18 watts.

Product Finder

Which is the best Bosch eBike system for me?

1. Riding style

What riding style do you normally adopt and what type of terrain do you usually ride your eBike over?

2. Product line

Now find a product line that best suits your needs.

3. PowerPack

The battery capacity has an impact on the range of your eBike. The higher the battery capacity, the further you can travel.

(Average when combining all four riding modes under favorable conditions)

4. On-board computer

Choose the right display for you depending on the functions you require.

Mountains



- ▶ Extremely sporty riding over demanding terrain along dirt tracks.



Performance Line CX

Tours



- ▶ Sporty riding and longer distances, predominantly on paved paths and roads.



Performance Line Cruise

Suburban



- ▶ Comfortable riding or commuting, mainly on paved roads and cycle paths with moderate gradients.



Active Line Cruise

City

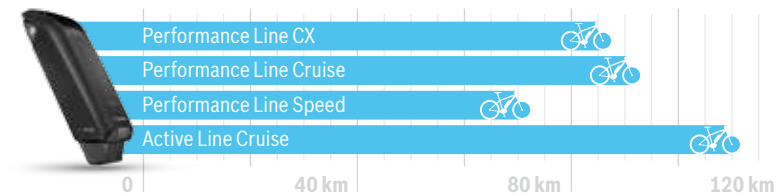


- ▶ Relaxed riding or commuting on paved roads or cycle paths every day.

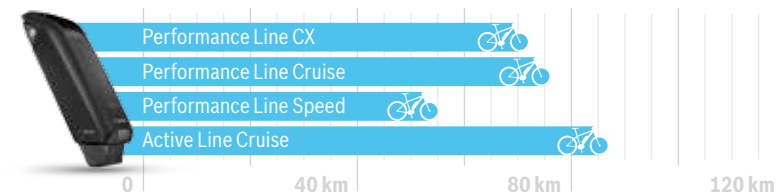


Performance Line Speed

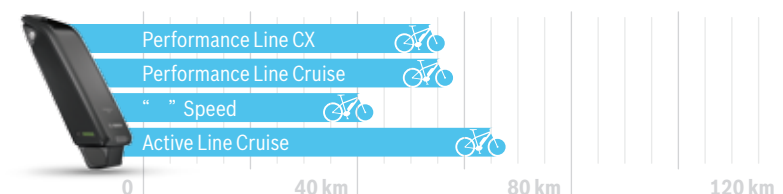
PowerPack 500



PowerPack 400

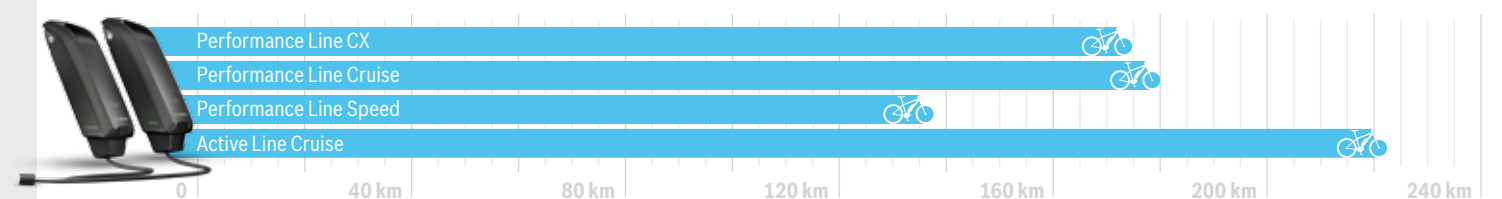


PowerPack 300



DualBattery

Based on 2 x PowerPack 500. Combined use of all four riding modes under favorable conditions.



Nyon Intuvia Purion

5 Riding modes	●	●	●
Shift recommendation	●	●	○
Transflective display	●	○	○
Splash-proof	●	●	●
Off-board mode	●	●	○
USB charging option	●	●	○
Operated from handlebar	●	●	●
Connected to app & portal	●	○	○
Navigation	●	○	○
Fitness function	●	○	○
Compatible with eShift	●	●	○
Compatible with DualBattery	●	●	●

How would you like to change gears?

▶ eShift

The integrated electronic gear shifting solution for anyone who wishes to focus on the essentials when eBiking – so you just have to pedal.



Performance Line CX

Live the trail

The Performance Line CX raises sporty eBiking to a new level: experience the power of the Bosch Uphill Flow drive while riding through mountains. Benefit from a noticeable boost in performance, a maximum torque of up to 75 newton meters and sustained power into the high cadence range for sporty acceleration, even when riding over alpine terrain.



Performance Line CX

At a glance

- ▶ Our most powerful drive for your Uphill Flow
- ▶ Greater riding enjoyment on the flat and when riding uphill

Performance Line CX Highlights



Max. torque

A higher torque provides extra assistance when pedaling.



Max. drive

Additional assistance for the rider provides better propulsion and more power.



Drive Unit

Assistance up to 25 km/h. No overheating, even during long ascents.

Compatible with



Range



- ▶ In combination with PowerPack 500 in mixed mode under favorable conditions. More information on page 46

Technical details on page 51



The superlative among drive units

One step on the pedal and the power kicks in: The Performance Line CX is the ideal drive for ambitious sports enthusiasts and demanding eBikers. Achieve a perfect symbiosis with your eBike without taking your foot off the pedal. The compact Drive Unit Performance CX allows for shorter chain stays and a higher ground clearance, making eMountain bikes extremely maneuverable and agile. Together with fine doses of support, experience maximum riding enjoyment over rough terrain or up steep inclines, in particular. What more could you want?

Performance Line CX. The highlights

- ▶ Uphill Flow: The maximum torque of 75 newton meters transforms eMountain bikes into expert climbers
- ▶ Trail Control: The typical Bosch dynamic power control always gives the rider the right degree of support (50–300%) when traveling over steep terrain
- ▶ Direct Flow: Support from the very first step – makes it easier to start pedaling uphill and delivers a healthy dose of power when exiting corners
- ▶ Gear Change Control: Guarantees direct, sporty gear changes and protects the chain and cassette
- ▶ Robust: The powder coating, rock protection cover and splash water protection prevent the drive unit from sustaining damage
- ▶ Efficient: Bosch drive units are capable of achieving maximum power, even under high loads

EX 1 – the gear system for sports enthusiasts

EX1 by SRAM was specially developed for eMountain bikes and has been perfectly adapted for the Performance Line CX. Maximum durability, excellent climbing properties and an outstanding shifting performance, even under full load, make the EX1 the first choice for extremely sporty eMountain bikers.

Performance Line CX: a maximum torque of up to 75 newton meters and sustained power

Performance Line CX + Nyon + PowerPack 500

Well equipped for uphill riding enjoyment



However steep the incline or technically demanding the trail – the Performance Line CX adds a new dimension to eMountain biking and opens up a whole new range of destinations. The Performance Line CX takes you to these destinations. Travel further than ever before: along unpaved trails, through mountains and up the steepest inclines. With the PowerPack 500, you can experience the power of

Uphill Flow into the high cadence range and benefit from sporty acceleration on long tours and up steep inclines. Enjoy the exhilarating feeling of an Uphill Flow and experience unaltered riding enjoyment in the mountains. In combination with the Nyon all-in-one eBike on-board computer, you can access all the information you need for your own personal, inspirational eMTB experience.



PowerPack 500 and Drive Unit Performance Line CX: The perfect combination for steep inclines



Uphill Flow

Get more out of your mountain experience

Mountain biking is pure adrenaline – riding down a trail smoothly at high speed. But why always downhill? With an eMountain bike, you can also experience the ultimate feeling of an Uphill Flow when riding up inclines.

eMountain biking opens up a host of completely new possibilities: more power, more flow, more action! An Uphill Flow can be incredibly good fun, but will only be achieved by riders who have mastered the correct technique.



WATCH MOVIE

[bosch-ebike.com/
uphillflow](https://bosch-ebike.com/uphillflow)

Technique

Mastering the trail

Curve Boost

A small turn of the pedal is enough to trigger a tremendous forward boost. Curve Boost allows you to sweep around bends on trails or ride downhill with flowing movements – works best in a high gear in turbo mode.

Trail Boost

Trail Boost supports our established push technology. eMountain bikes can navigate trails in a high gear and turbo mode with minimal pedaling and greater fluidity.

Uphill Wheelie

With Uphill Wheelie, the rider remains permanently seated on the saddle while the front wheel repeatedly lifts from the ground slightly so that the bike can ride smoothly over small obstacles and scree passages as the rider pedals.

Start off on steep slopes

A powerful drive allows you to start pedaling up steep slopes: Keep your balance, place both feet on the pedals and slowly set off. This function is most effective in a low gear in either tour or sport mode, depending on the consistency of the ground below.

Pedal management

Whether riding over larger obstacles or navigating round narrow bends, the correct pedal position is crucial in enabling you to control the eBike safely at any given moment. With Uphill Flow, a continuous pedal movement is essential in maintaining sustained support and avoiding interruptions in the flow. The rider must adopt a well-coordinated, anticipatory riding style to prevent the pedals from hitting obstacles.

Cadence – within the perfect range

The Bosch drive unit delivers the right amount of support at a maximum cadence of 120rpm. Efficient gear shifting allows the rider to maintain the cadence perfectly within this range so that sufficient energy is always available when needed. Incidentally, Bosch drive units always deliver maximum power, even under high loads in the mountains.

eBike Etiquette

Respect trail rules

The DIMB and IMBA trail rules also apply to eBike riders – especially because they have more power under the saddle.

Stay on the trail

Even when it is tempting: riding off the trails or across a meadow is really not a cool thing to do. Mountain biking is also about experiencing the wonders of nature, which should be preserved in all their beautiful glory.

Overtake others, but do so with respect

An eBike can travel uphill much faster than a bike without a drive. Therefore, please show respect when overtaking!

Respect the traffic direction

It is important to respect the direction of traffic in bike parks, especially along downhill stretches and North Shore trails!



Performance Line

Live the adventure

When embarking on extended sporty tours, traveling to work or cruising through natural surroundings, the Performance Line transforms eBikers into explorers and adventurers. The powerful drive delivers the right amount of power at exactly the right moment. In a nutshell: The bike provides outstanding support in every situation to guarantee even more fun in the saddle – up to 25 km/h with the Performance Cruise drive unit or 45 km/h with the Speed variant.



Performance Line

At a glance

- ▶ More than enough power for the city, countryside, mountains and valleys
- ▶ Powerful, dynamic drive unit for commuters, for example

Performance Line Highlights



Max. torque

A higher torque provides extra assistance when pedaling.



Max. drive

Additional assistance for the rider provides better propulsion and more power.



Drive Unit

The system is available in two variants: Cruise and Speed.



Compatible with



Range



- ▶ In combination with PowerPack 400 in mixed mode under favorable conditions. More information on page 46

Technical details on page 51

The sporty all-rounder for every occasion

Whether trekking, all-mountain riding or commuting: The sporty Performance Line drive is the perfect choice for ambitious riders. Benefit from a finely balanced system that delivers maximum performance for a sporty riding style. The quality of the drive has been officially recognized. The Performance Line has already won a Red Dot Design Award.

Performance Line. The highlights

- ▶ Outstanding support: Three sensors measure torque, speed and acceleration more than 1,000 times per second, ensuring perfect interaction between rider and eBike
- ▶ Off to a good start: Full support as soon as you set off
- ▶ Enhanced performance development: A dynamic characteristic curve from the Cruise and Speed Performance Lines produces a more sporty riding performance and greater acceleration, especially when setting off. An update is available for older Performance Line models
- ▶ Varying speeds: The Cruise Performance Line model provides support up to 25 km/h and the Speed Performance Line model up to 45 km/h. Commuters, for example, can reach their destination even quicker
- ▶ Convenient: You can also shift the gears of the Performance Line electronically with integral eShift solutions from NuVinci, SRAM and Shimano



A dynamic characteristic curve from the Cruise and Speed Performance Lines produces a more sporty riding performance

Performance Line + Intuvia + DualBattery 1000

Extending your range



The Performance Line is our powerful all-round model. Ideal for commuting, taking the kids to kindergarten or going grocery shopping with the cargo bike. The DualBattery 1000 achieves twice the range of a PowerPack 500 and is perfect for anyone who enjoys greater freedom. Wherever you intend to ride: you will be sure to get there and back safely with support from the Performance Line and the intuitively operated Intuvia on-board computer – no waiting in traffic jams, no searching for parking spaces. Instead, plenty of fresh air and a good mood to accompany you along the way.



Performance Line + Nyon + PowerPack 400

More riding enjoyment,
whatever
the situation



A meeting in the city in the morning, lunch in the park and a training session with friends in the evening – the Performance Line transforms normal days into exceptional experiences as you bring a new, exciting element of freedom into your life, while the PowerPack 400 provides you with all the power you need. The impressive dynamic drive provides powerful support both on flat roadways and up inclines. Enjoy an unlimited eBike experience with the fully networked Nyon on-board computer.





Active Line

Live the journey

The Bosch Active Line is the ideal drive for anyone wanting to arrive at their destination more quickly, yet more relaxed. Whether you are riding through the countryside, going grocery shopping or embarking on the next biking tour with friends, experience greater riding enjoyment and a longer range with exactly the right amount of pedaling support up to a maximum speed of 25 km/h.



Active Line

At a glance

- ▶ The harmonious eBike system for greater mobility
- ▶ Simple to operate and reliable in everyday use

Active Line Highlights



Max. torque

A higher torque provides extra assistance when pedaling.



Max. drive

Additional assistance ensures the rider makes good progress.



Drive Unit

The right amount of support for greater mobility in everyday use up to a maximum of 25 km/h.



Backpedal function

The Active Line is available with a backpedal function.



Compatible with



Range



Up to 88 km +/-

- ▶ In combination with PowerPack 400 in mixed mode under favorable conditions. More information on page 46

Technical details on page 51

Your introduction to a new kind of mobility

The Active Line is perfect for anyone who leads an active, mobile lifestyle. The harmoniously agile power delivery of the drive guarantees a safe, reliable riding experience. An intelligent sensor concept provides the perfect amount of support at all times. The drive unit is also available with the optional backpedal function.

Active Line. The highlights

- ▶ Outstanding support: The intelligent three-sensor concept for the drive unit takes more than 1,000 measurements per second to provide outstanding support and ensure a harmonious power delivery
- ▶ The right amount of support: Perfect balance of force with every pedaling action – ideal for tours and greater mobility in everyday use, up to a maximum of 25 km/h
- ▶ Minimal wear: The gear shift detection function of the Active Line preserves the components and ensures an easy, fluid shifting action
- ▶ Extremely versatile: The Active Line can be used on eBikes with a derailleur and hub gear system – the latter can also be equipped with a backpedal function
- ▶ Attractive: The design of the Bosch eBike systems has already won a Red Dot Design Award



Active Line + Purion + PowerPack 400

The perfect combination for everyday use



Rediscover your city in a relaxed and exciting way. Explore unknown paths and idyllic squares, restaurants and stores. The Active Line Cruise harmoniously delivers just the right amount of pedaling support up to a maximum speed of 25 km/h. Even when visiting friends or going about your daily activities, the combination of our lightweight yet powerful PowerPack 400 and the well-designed Purion on-board computer create the perfect conditions for a comfortable active everyday life.



WATCH MOVIE

[bosch-ebike.com/
munich](http://bosch-ebike.com/munich)

Active Line + Intuvia + PowerPack 400

Convenient and durable, perfect for touring



Just keep on riding. Embark on a picturesque tour through vineyards, ride from the campsite to your favorite restaurant by the sea or make daily trips to the grocery store or visit friends. The easy to operate Intuvia on-board computer, automatic eShift gear system and reliable PowerPack 400 help you to live in the moment. You can feel the comfortable, harmonious support of the low-vibration motor with every pedaling movement.



SEE MAGAZINE

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[bosch-ebike.com/
tuscany](http://bosch-ebike.com/tuscany)



eShift

Integrated gear shifting Relaxed riding

The integrated electronic eShift gear shifting solution ensures greater riding comfort, enhanced safety, a longer range and reduced wear. Enjoy an even more relaxed eBike experience, both on overland tours and when riding in the city. eShift is available in a total of three different variants for Performance Line and Active Line – now in conjunction with the all-in-one Nyon on-board computer.



eShift is available in three different variants – the perfect gear shifting solution for every riding style

NuVinci CYCLING Optimized™ Harmony H|Sync™

Select the required cadence and the NuVinci gear shifting system with eShift will switch to the best gear ratio fully automatically – even on inclines. This extends your range and you can concentrate fully on riding. Alternatively, the gear shifting system can be operated manually via nine electronic gears. eShift with NuVinci is also compatible with Speed Pedelecs.

SHIMANO Di2

eShift with Shimano Di2 shifts the gears on your Pedelec in a quick, sporty and efficient manner. Simply actuate the shift paddle to change gear. In manual mode, a shift recommendation function helps you ride as efficiently as possible. With the Auto-Downshift function, the gear system switches automatically to an individually selected starting gear to enable the rider to set off safely in a low gear.

SRAM DD3 Pulse

eShift combined with DD3 Pulse by SRAM is a speed-dependent gear shifting solution based on a combination of derailleur and 3-gear hub gear system. The solution provides an extremely large gear range to ensure you always ride with the best gear ratio and extend your range as a result. Particularly enjoyable: When the bike stops, SRAM DD3 Pulse shifts back to first gear so that eBikers can set off again easily and efficiently.

Compatible with

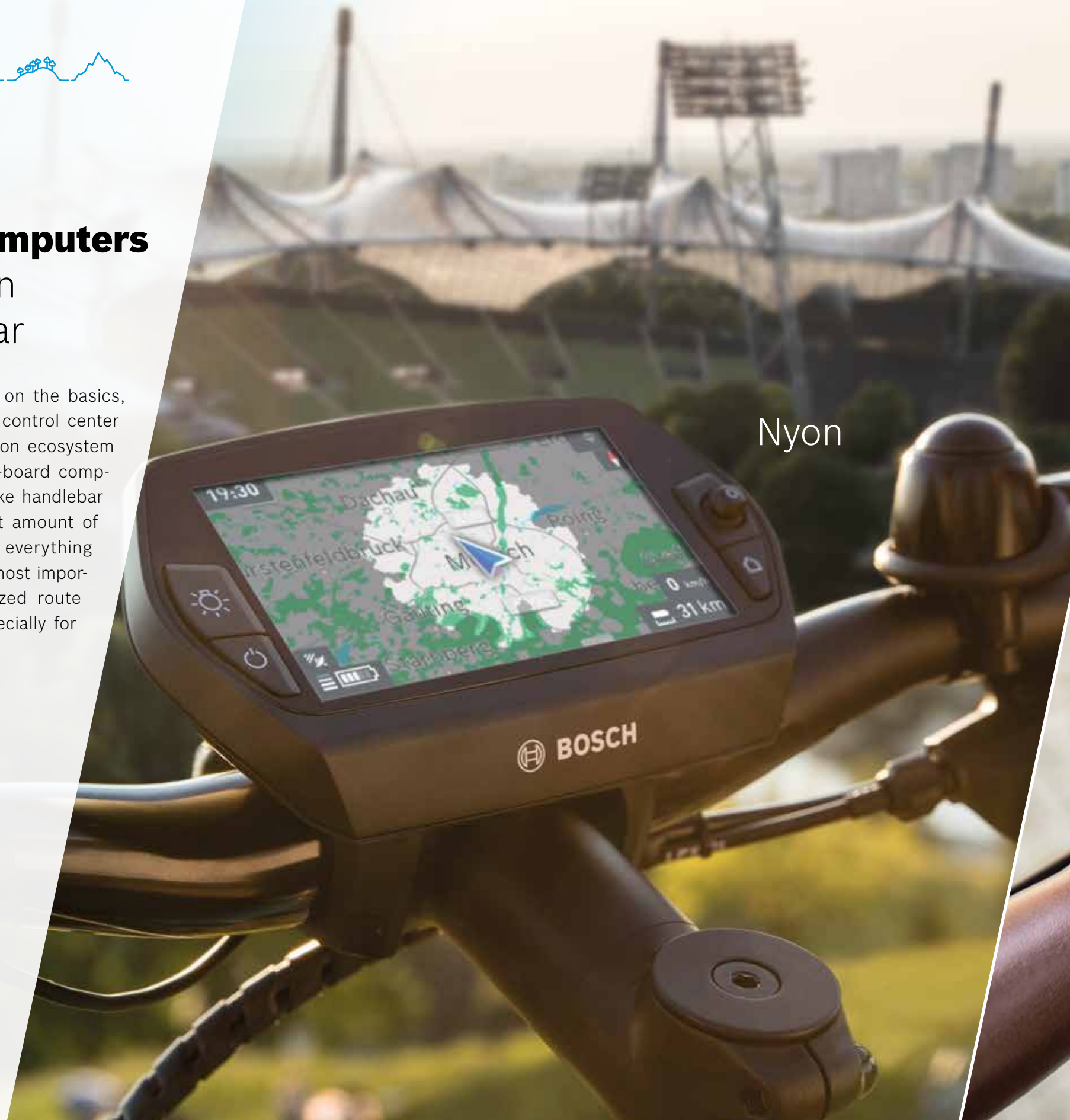




On-board Computers

Intelligence on your handlebar

The Purion, which focuses on the basics, the easy-to-operate Intuvia control center and the fully networked Nyon ecosystem – three different Bosch on-board computers mounted on your eBike handlebar to provide exactly the right amount of support. Features include everything from a clear display of the most important riding data to optimized route calculations customized specially for your eBike.



Nyon



Intuvia



Purion



Nyon

Connect your Way



Compatible with 

Nyon is more than just a computer for your eBike – Nyon marks the start of a new era. The on-board computer offers eBike connectivity for the next generation in conjunction with the online portal and app. Retrieve all the information you need at any time: whether GPS navigation and range information or an analysis of your personal fitness. Nyon is now available as a retrofit kit for eBikes from the Performance Line CX, Performance Line or Active Line from model year 2014.



New dashboard

The large, intuitive display makes the Nyon even easier to operate. You have a clear view of all information, such as your most recent activities over the last 30 days.



Topographical residual range

The new premium function displays the current range on your Nyon. The map displays your traveling radius, taking topographical information, your riding style and the charge status of your PowerPack into consideration.



eShift

The electronic solution for integrated gear shifting provides a gear shift function for your eBike system that not only enhances your relaxation and riding comfort, but also enhances safety by allowing you to concentrate fully on eBiking.



Always connected

Nyon forms part of an intelligent system. Connected to Bluetooth and Wi-Fi, the intelligent on-board computer synchronizes with the *eBike Connect* smartphone app and the *ebike-connect.com* online portal to create the ideal conditions for a convenient, networked eBike experience: Nyon provides many individual options for route planning, the actual journey and evaluation of your activities, such as creating your own individual eBike profile.



eBike Connect Smartphone App

You can use the *eBike Connect* app to connect Nyon to your smartphone via Bluetooth. You can modify settings, transfer routes or use additional premium functions for your own personal networked interactive eBike experience.

eBike-Connect Online Portal

The *ebike-connect.com* online portal has been completely redesigned: enhanced navigation, new colors and a responsive design. You can now export your tours in GPX file format. When saving files as a route, you can select turn-by-turn navigation for your riding activities.



Ride



Clear overview

Whether time, speed, shift recommendation, range, distance, battery charge level or cadence – Nyon shows you all the most important information at a glance.

Motor support when required

The new user interface makes your Nyon even easier to personalize. Define your own personal cockpit by choosing from more than 20 different options and three suggested designs.

Personalized user interface

Sporty or relaxed – Select one of five different riding modes to suit your own individual motor support requirements. You can adapt driving modes individually using an additional premium function.

Riding modes

Select one of five different riding modes to suit your own individual motor support requirements.



Walk Assistance



Off



Eco



Tour



Sport



Turbo



See page 39 for more detailed information

Navigation



Convenient route planning

Plan your own route using the portal, Nyon and *eBike Connect* app or upload routes to the *eBike Connect* online portal as GPX tracks

Select route profiles

Choose from one of three suggested routes: You can choose between the fastest route, most picturesque route or a route for eMountain bikers, predominantly along dirt tracks. Alternatively, the shortest route is calculated for speed bikes.

Stopovers

Discover the most beautiful places along the route and include a maximum of eight stopovers when planning your eBike tours.

Shortcuts

In addition to the home address, a “Take me to work” function is now also available – after saving an address at *ebike-connect.com* or on the app, you can navigate from Nyon using this shortcut.

More storage space

The 8 GB memory provides sufficient space for storing maps. However, you can continue navigating with a full memory: simply stream the required maps to the Nyon from your smartphone via Bluetooth.





Fitness



Training function

Nyon transforms your eBike into a “personal trainer“. Whether you are training for a competition or are an active, health-conscious recreational sports enthusiast: Nyon provides all the relevant data in realtime to motivate you while riding.

Fitness check

Nyon measures your pedal force and cadence to calculate how much power you generate and how much energy you burn. You can use a heart rate chest strap, for example, to obtain more accurate values and make sure you are always training within the correct pulse range.

Online evaluation with eBike-Connect

You can visit the eBike-Connect.com portal can see how effectively you have been training. The portal gives you a perfect overview of your current fitness and training level.



Smartphone Function



Messaging service

When the Nyon receives a new SMS, a pop-up notification appears on the display so that you can stay well informed during training without removing your hands from the handlebar, while your smartphone remains safely in your pocket.

Personalized settings

You can use the *eBike Connect* app to enter tour destinations, for example, or modify the screen design according to your requirements. Attractive premium functions allows you personalize your eBike assistant in even more detail: Purchase the premium function to modify riding modes or the topographical range.

Charging station for external devices

The micro-USB port on the Nyon can be used to charge external devices such as smartphones and can be used by specialist dealers to perform diagnostic tasks.





Intuvia

Clever and clearly arranged

Intuvia guarantees easy and intuitive control of your eBike. The viewing area remains clearly visible under all lighting conditions. The separate control unit allows you to keep your hands safely on the handlebar and you are guaranteed a clear view of all riding data at all times. The shift recommendation feature makes sure you always pedal in the right gear to preserve the battery and extend your range.

Intuvia. The highlights

- ▶ Simple operation: You can conveniently change between riding modes using your thumbs
- ▶ Practical: All tour data can be retrieved and viewed even when the device is not mounted on the bike
- ▶ Good readability: You can even view your speed, distance, trip time and current range in direct sunlight
- ▶ Charging station for external devices: Intuvia can charge your smartphone or similar device via the micro-USB port while you are on the move
- ▶ Service information: The optional interval display always informs you when the eBike is due for a service
- ▶ Convenient: The walk assistance function can be activated in one of two settings and provides assistance when pushing your eBike

Compatible with 



Riding modes

Sporty or relaxed – Select one of five different riding modes to suit your own individual motor support requirements.



Turbo

Direct support at maximum power into the highest cadence ranges for sporty riding



Sport

Instant powerful support for riding in the countryside and city



Tour

Measured support for long distances with a clear focus on long ranges



Eco

Effective but gentle support, designed for maximum efficiency and long ranges



Off

No support, Intuvia continues to display all the most important information



Practical walk assistance

The walk assistance function can be activated in one of two settings and provides assistance up to 6 km/h. Pushing your bike is therefore so much easier, even with heavy baggage.



NEW

Purion

Compact purist

All basic information at the click of a thumb: The new Purion on-board computer operates with maximum efficiency and precision. The display clearly shows the most important information.

Purion. The highlights

- ▶ Clearly arranged display: Charge status, speed, riding mode, range, trip distance and total distance
- ▶ Outstanding readability: The backlit non-glare display allows you to read all riding data clearly
- ▶ Service information: The optional interval display always reminds you when the eBike is due for a service
- ▶ Easy diagnostics: Specialist dealers can check the condition of your eBike using the micro-USB port
- ▶ Focusing on the basics: Five support levels, reliable operation using your thumbs, takes up very little space on the handlebar



Riding modes

Purion offers five support levels and a walk assistance function up to 6 km/h to provide you with outstanding support in every situation.



Turbo

Direct support at maximum power into the highest cadence ranges for sporty riding



Sport

Instant powerful support for riding in the countryside and city



Tour

Measured support for long distances with a clear focus on long ranges



Eco

Effective but gentle support, designed for maximum efficiency and long ranges



Off

No support, Purion continues to display all the most important information



Practical walk assistance

The walk assistance function can be activated in one of two settings and provides assistance up to 6 km/h. Pushing your bike is therefore so much easier, even with groceries in your basket.



PowerPacks

Energy made to measure

Whether for relaxed cruising, your daily commute to work or ultimate Uphill Flow – we offer you exactly the right battery for your requirements. Bosch PowerPacks are available as a 300, 400 or 500 frame or rack battery. Common characteristics include a high energy density, incredible mileage, long lifetime, low weight and simple handling.

Outstanding battery efficiency

The lithium-ion PowerPacks are proven to have the highest energy density, smallest dimensions and lowest weight on the market – guaranteeing maximum riding enjoyment.

Ergonomic handling

Both frame and rack batteries are easy to remove for recharging at home. The PowerPacks can also be conveniently charged directly on the bike.

Easy to store and quick to recharge

Modern Bosch lithium-ion batteries do not suffer from memory effect or self-discharge issues. Your battery will charge to 50% in about 2 hours, depending on the charger and PowerPack.

Long service life

The Battery Management System offers maximum protection against overcharging, undervoltage, overheating and short circuits as well as extending the service life of the PowerPack.



PowerPack 500

Currently the most powerful PowerPack available from Bosch, it has the same dimensions and is only slightly heavier than the 400 PowerPack, yet it extends the range of the eBike by approximately 25 percent. Under ideal conditions, it is possible to complete tours covering 80 miles with one charge together with the Performance Line Cruise.* The PowerPack 500 is available as a frame or rack battery for Performance and Active Line.

*See page 46 for details of ranges.

PowerPack 400 and 300

The Power Pack 400 and Power Pack 300 are reliable, durable energy storage devices that suffer neither from memory effect nor self-discharge issues. Designed as a frame battery, the PowerPack is mounted close the center of gravity on your eBike to ensure better stability. The rack battery variant is used for wheels with a low entry point. Regardless of where the batteries are mounted, removing and charging them at the nearest power socket could not be easier.

The PowerPack 400 is available as a frame and rack battery for Performance Line and Active Line.

The PowerPack 300 is available as a frame and rack battery for Active Line and as a frame battery for Performance Line.

Chargers

Energy in an instant

Bosch Chargers are handy, lightweight and robust, but more importantly, charge your battery quickly. Standard, Compact or Travel Charger? You decide exactly what type of charger you need. On the terrace, in the garage, on journeys or in the office: Compact Bosch Chargers can charge your eBike anywhere so you can set off again in no time at all.

Functional, robust and silent

An ergonomically shaped charging plug ensures easy handling while the device fits easily into a suitcase due to its extremely compact dimensions. The enclosed housing gives the charger extra stability and protection from dirt while the battery charges without making disturbing sounds.

Compact and lightweight

The Bosch eBike Charger is only about half the size of a drinks bottle and tips the scales at only 800 grams.



Standard Charger

The robust functional Standard Charger is the fastest Bosch charger, yet has the same dimensions and weight as a water bottle (less than 800 grams). And like all Bosch chargers, it operates silently.



Compact Charger

The Compact Charger is the ideal charger for people who are constantly on the move. It weighs less than 600 grams and is 40% smaller than the Standard Charger – small enough to fit into any saddlebag. The Compact Charger can also be used in the USA, Canada and Australia.



Travel Charger

Weighing only 500 grams, the small Travel Charger is operated via the cigarette lighter in a car or the 12V vehicle socket in a motorhome. An integrated discharge protection protects the car battery.





NEW

DualBattery

Twice the range

DualBattery is the ideal solution for tour riders, long-distance commuters and cabby bikers: two PowerPacks connected to one another – in a combination of either two frame batteries or one frame and one rack battery. Bosch DualBattery provides support up to a range of 180km under favorable conditions.

More capacity for long distances

- ▶ DualBattery provides Bosch eBikes battery capacities of up to 1,000 Wh
- ▶ Intelligent energy management control software charges the PowerPacks equally
- ▶ Connecting two PowerPacks doubles the range of your eBike
- ▶ The Battery Management System also protects the DualBattery system against overcharging, under-voltage, overheating and short circuits as well as extending the service life of the PowerPacks

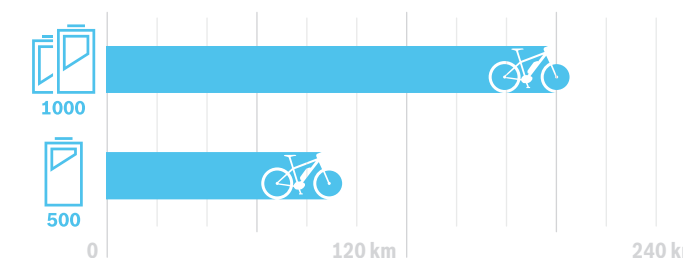


▲ Available for Performance Line and Active Line

For that extra mile

Perfect for commuters with a long journey to work or eCargo bike riders – also allows ambitious sports enthusiasts to go that extra mile.

(Based on the Performance Line Cruise. Average of all four riding modes under favorable conditions)



Range Tables

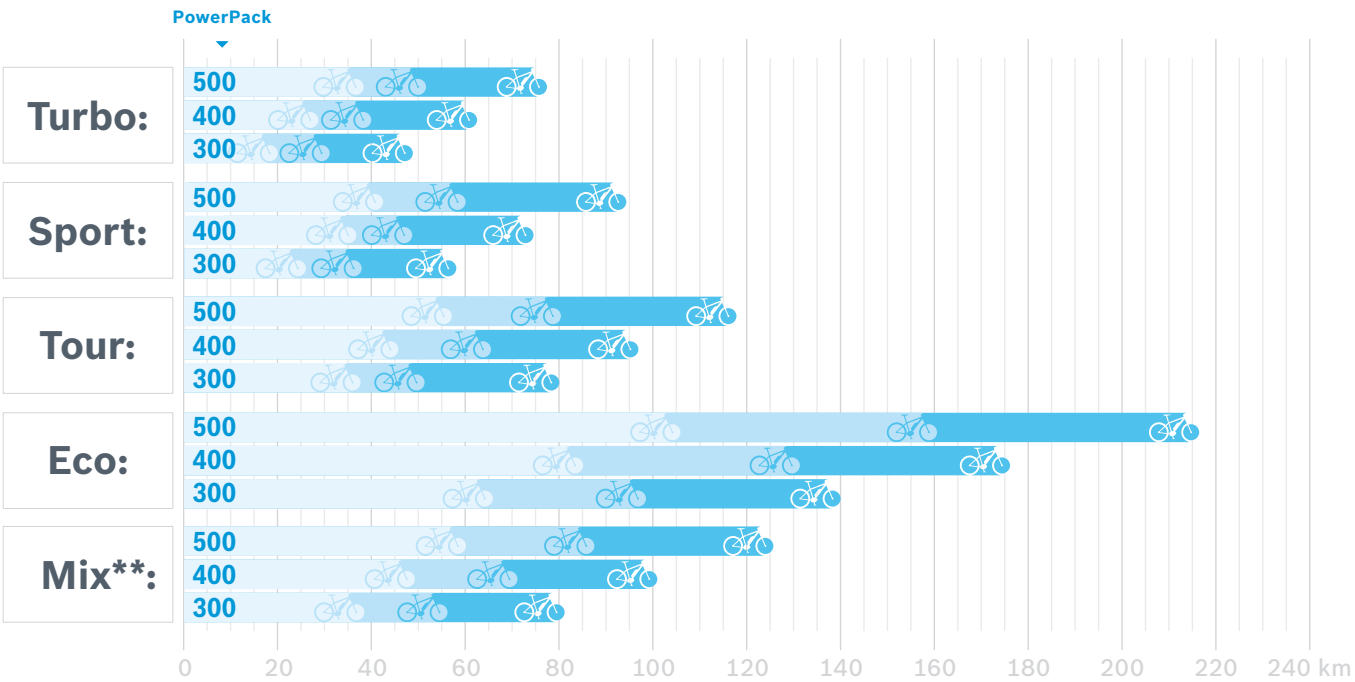


Support modes, riding performance and external factors have an influence on the range.

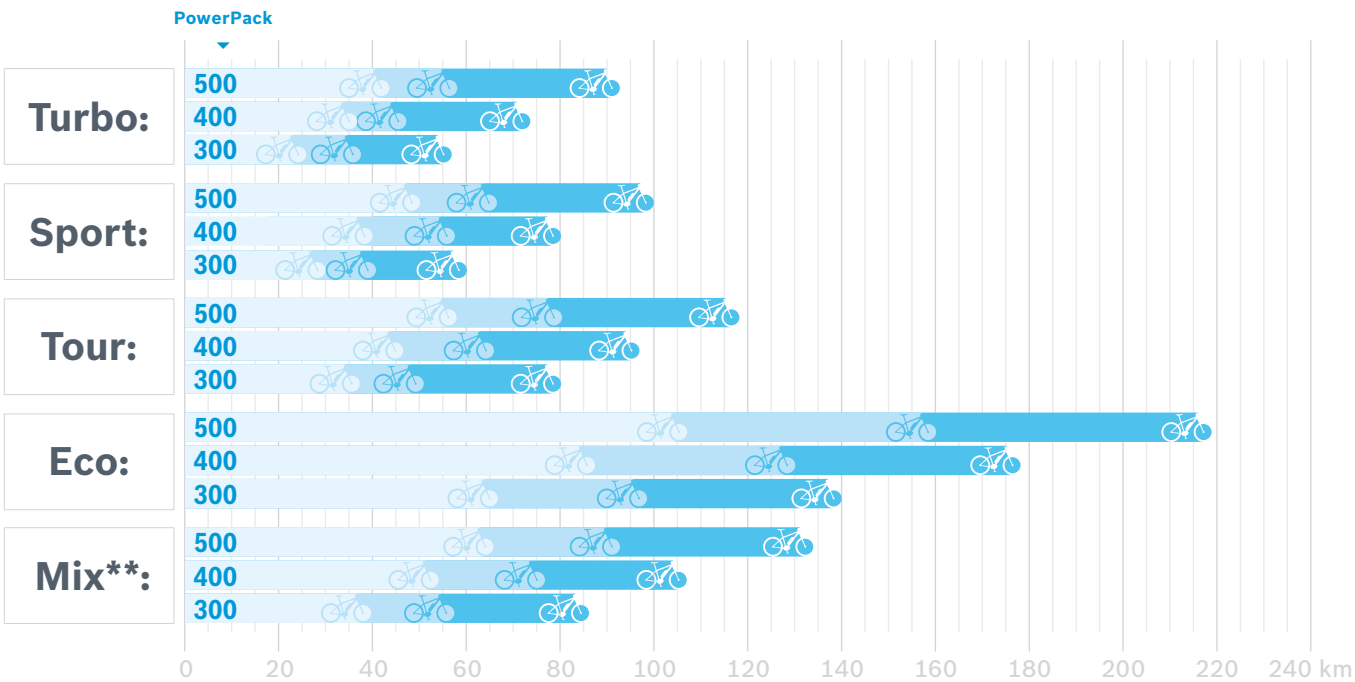
bosch-ebike.com/range-assistant



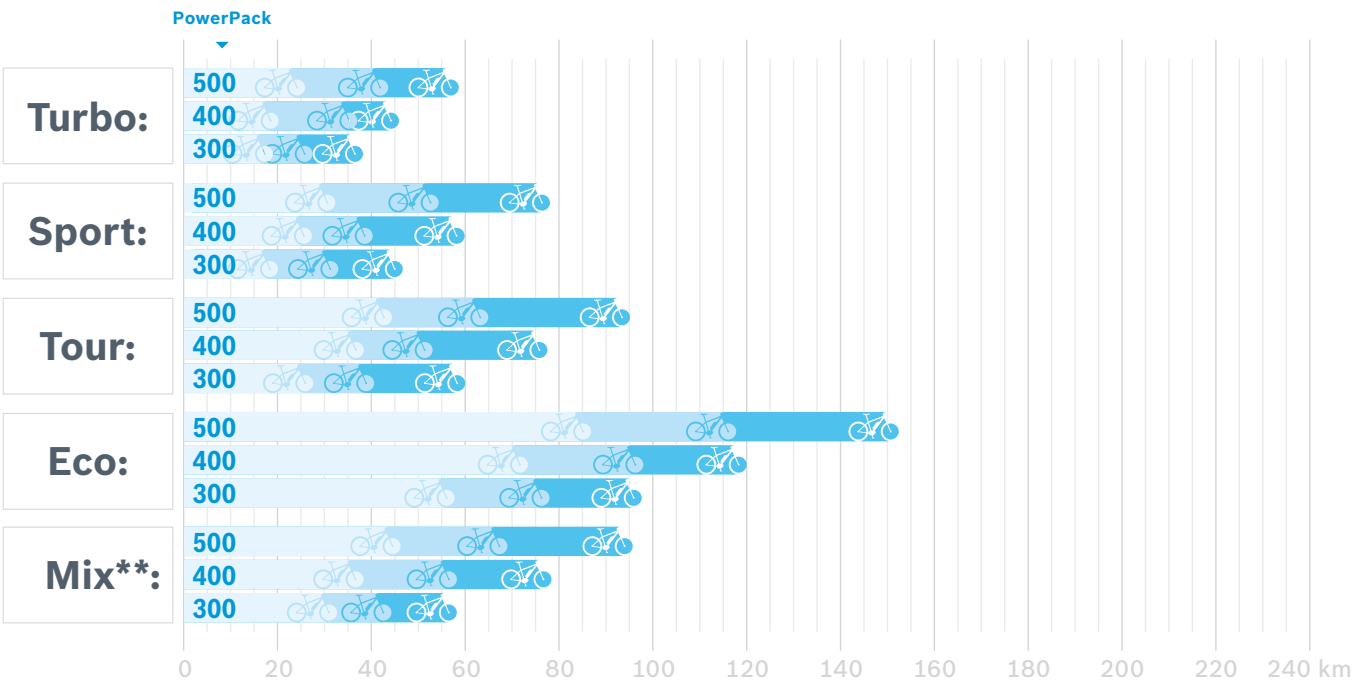
Range: PowerPack 500/400/300 Performance CX



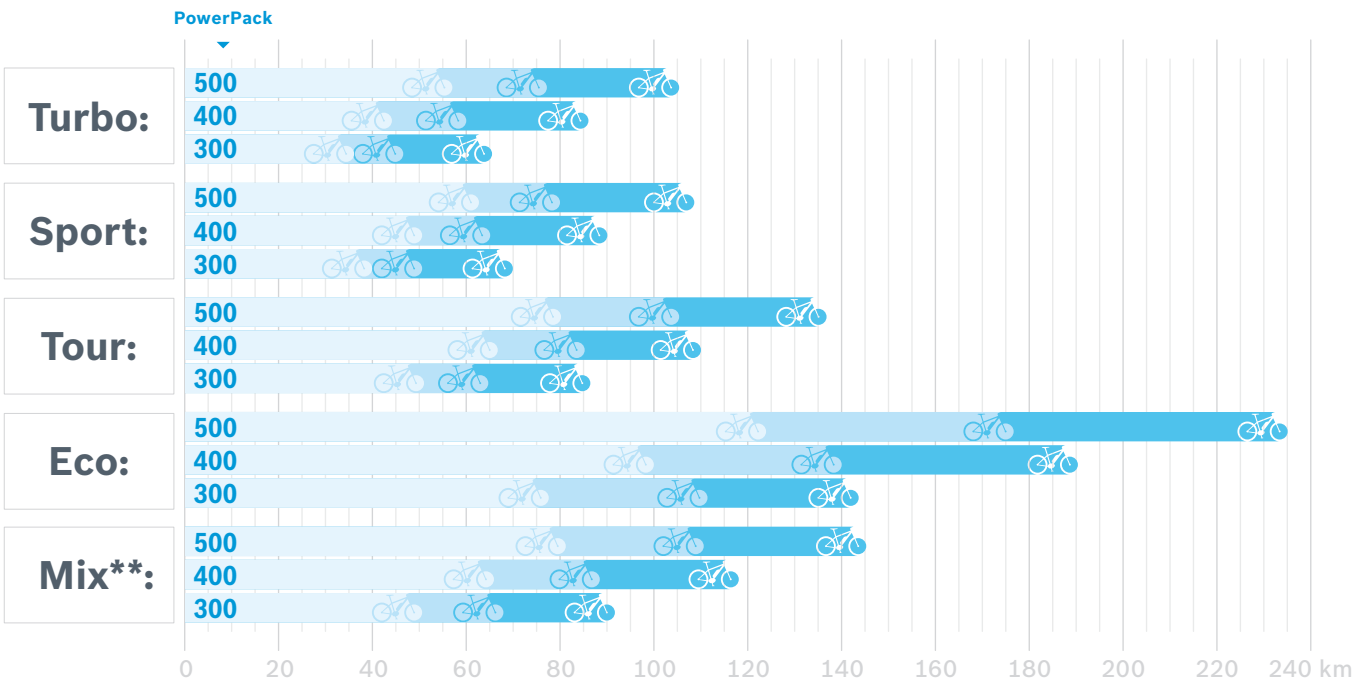
Range: PowerPack 500/400/300 Performance Cruise



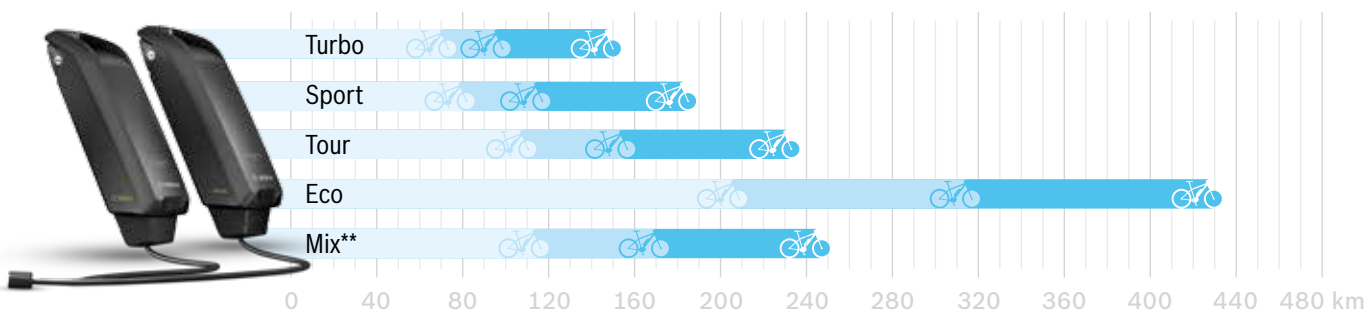
Range: PowerPack 500/400/300 Performance Speed



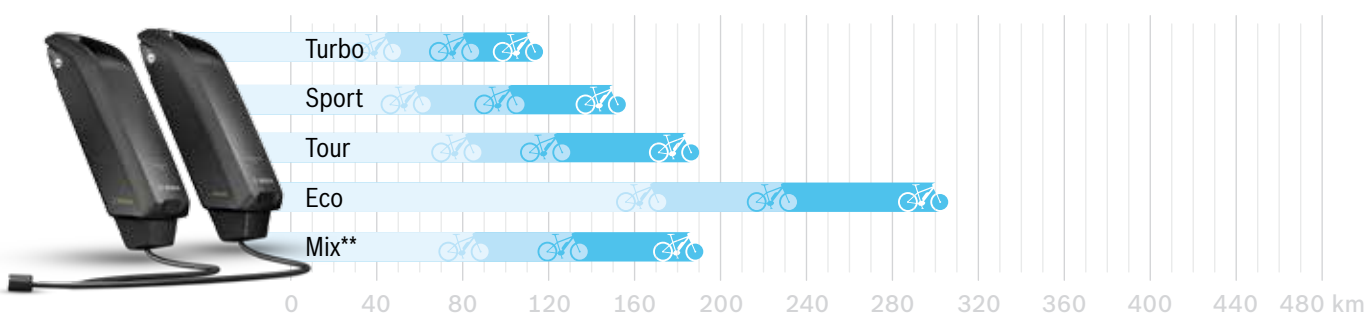
Range: PowerPack 500/400/300 Active Cruise



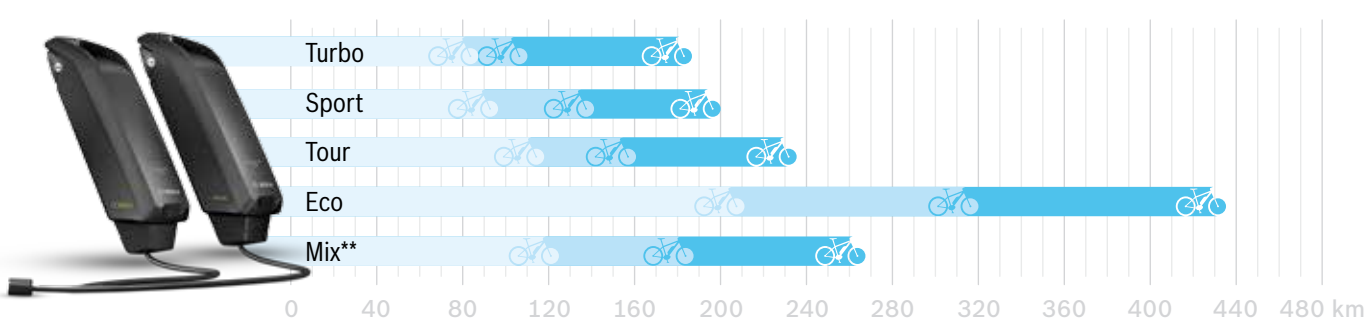
Range: DualBattery 1000 Performance Line CX (2 x PowerPack 500)



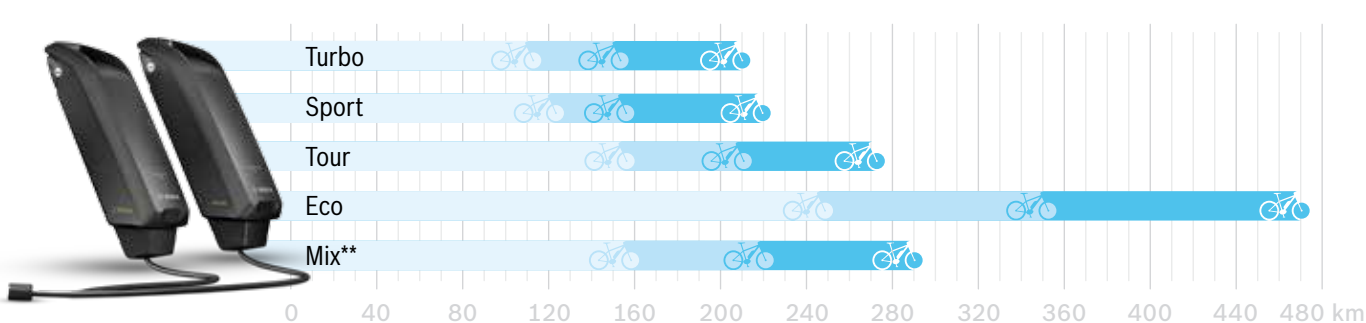
Range: DualBattery 1000 Performance Speed (2 x PowerPack 500)



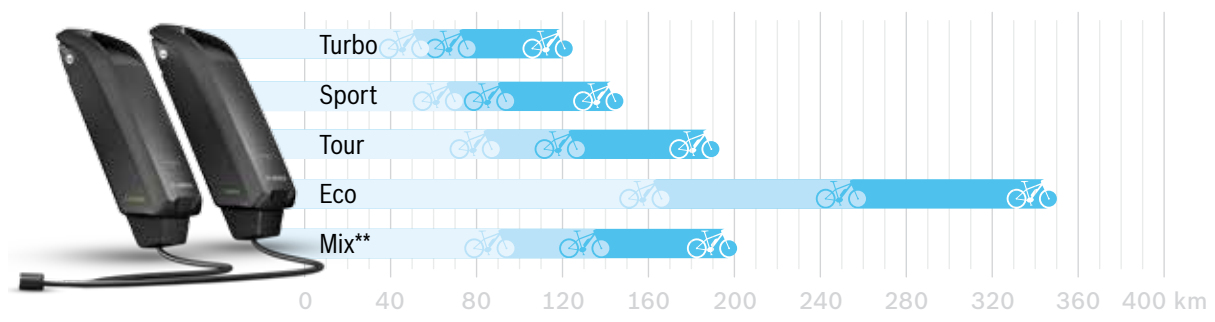
Range: DualBattery 1000 Performance Cruise (2 x PowerPack 500)



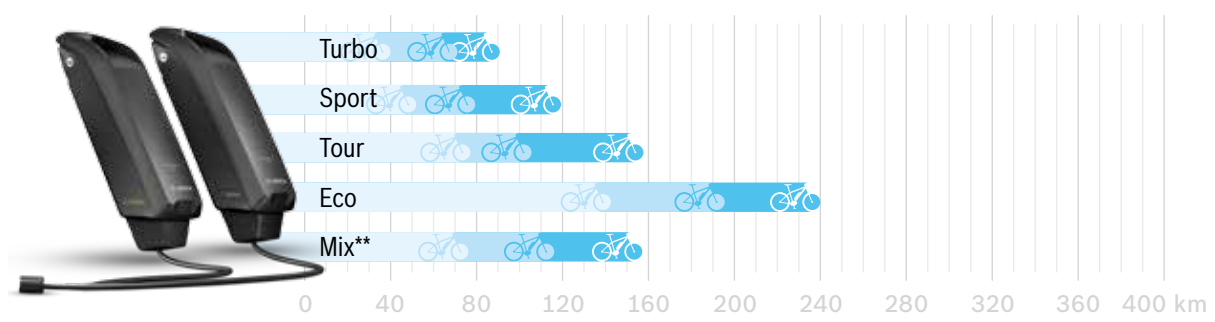
Range: DualBattery 1000 Active Cruise (2 x PowerPack 500)



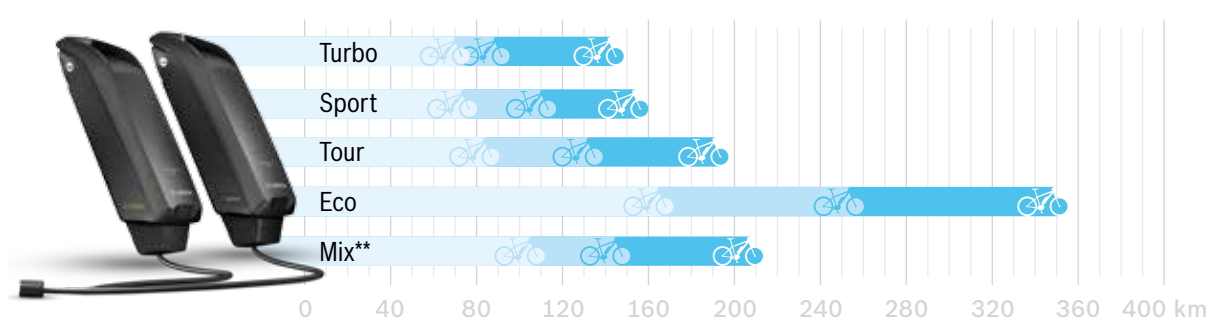
Range: DualBattery 800 Performance Line CX (2 x PowerPack 400)



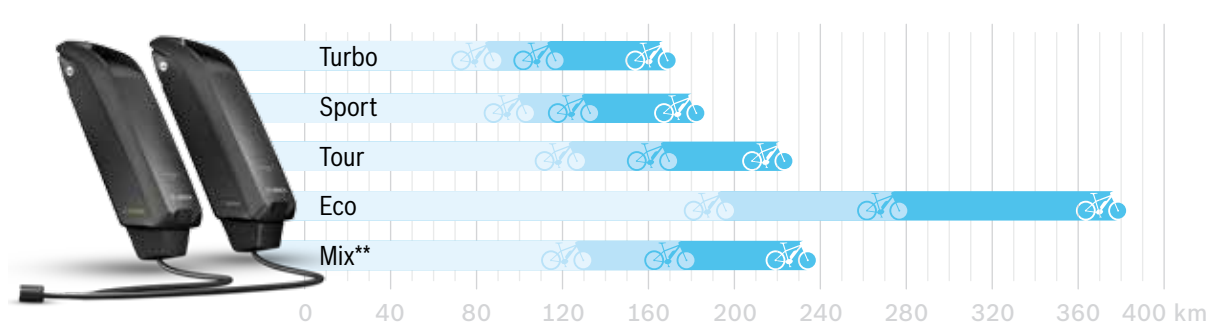
Range: DualBattery 800 Performance Speed (2 x PowerPack 400)



Range: DualBattery 800 Performance Cruise (2 x PowerPack 400)



Range: DualBattery 800 Active Cruise (2 x PowerPack 400)



Ideal conditions*

Flat terrain, approx. 15 km/h, no headwind, approx. 20°C outside temperature, low rolling resistance, optimal gear shifting, weight without eBike < 70kg, no additional connected components, e.g. light.

Favorable conditions*

Slightly hilly terrain, approx. 20 km/h, slight headwind, approx. 10°C to 20°C outside temperature, medium rolling resistance, generally optimal gear shifting, weight without eBike 70 to 80kg, no additional connected components, e.g. light.




Difficult conditions*






Hilly terrain, approx. 25 km/h (Speed: 45 km/h), headwind, < 10°C outside temperature, high rolling resistance, unfavorable gear shifting, weight without eBike > 85kg, additional connected components, e.g. light.

* The ranges are typical values which may decrease if one of the conditions listed below deteriorates.

** Average value from equal use of all 4 modes.

Technical Details Chargers/Nyon

			
	Standard Charger	Compact Charger	Travel Charger
Charging current	max. 4 A	max. 2 A	max. 2 A
Voltage	220–240 V	100–240 V	12 V
Size (approx.)	190 × 86 × 54 mm	160 × 75 × 45 mm	190 × 86 × 54 mm
Cable lengths (approx.)	AC Input: 1.5 m, DC Output: 1.0 m	AC Input: 1.5 m, DC Output: 1.0 m	DC Input: 1.0 m, DC Output: 1.0 m
Plug	Country-specific power plug	Country-specific power plug	12 V cigarette lighter + 12 V vehicle socket (via adapter cap)
Weight (approx.)	800 grams	600 grams	500 grams
Compatibility	Active / Performance Line compatible, Classic+ Line compatible via adapter plug (optional part)		

	Charging time: ▼	Charging time: ▼	Charging time: ▼
 PowerPack 500	4.5 h	7.5 h	7.5 h
 PowerPack 400	3.5 h	6.5 h	6.5 h
 PowerPack 300	2.5 h	5.0 h	5.0 h
 DualBattery 1000	9.0 h	15 h	15 h
 DualBattery 800	7.0 h	13 h	13 h








- Hardware facts**
- ▶ Transflective 4.3-inch TFT color display (480 × 272 pixels, 16 million colors, 95 mm × 53 mm active area)
 - ▶ 8 GB of storage capacity
 - ▶ 5-way joystick for intuitive operation on the on-board computer Nyon and on the separate control unit
 - ▶ 3 buttons for on/off, light and home
 - ▶ Walk Assist button on the separate control unit
 - ▶ Integrated high-precision GPS module
 - ▶ Integrated compass and high-resolution barometric air pressure sensor
 - ▶ Ambient light sensor automatically controls the brightness of the display day and night
 - ▶ Integrated battery delivers power for approx. one hour in off-board mode; on-board, it is charged via the PowerPack
 - ▶ Rugged and IPx7 splash waterproof when the USB cap is closed
 - ▶ Temperature range: –5 °C to +40 °C (operating) and –10 °C to +60 °C (storage)





- Connectivity facts**
- ▶ WiFi connectivity for direct and convenient synchronization (Activity sync., map update, software update) via your router or other access points
 - ▶ Smartphone app for compatible smartphones
 - ▶ Online portal (dashboard, activities, route planning)
 - ▶ Bluetooth connectivity to compatible smartphones: Android at least 4.0.3. and iPhone at least 5, 5S, 5C from iOS version 8
 - ▶ Bluetooth connectivity (Bluetooth 4.0) for heart rate chest straps such as Polar H7
 - ▶ Micro-AB USB interface for diagnostics by your dealer, for charging the Nyon battery, and for charging external devices such as MP3 players and smartphones

- Basic and premium package**
- Ride: Custom screen display
 - Ride: User-defined riding modes
 - Navigation – tracking (current location & world maps)
 - Navigation – route planning with stopovers (worldwide)
 - Navigation – route planning with points of interest
 - Navigation – 2D or 3D standard view
 - Navigation – “eMountain Bike” route
 - Residual range view on map (circle)
 - Topo range display
 - Fitness (current training effect, heart rate, calories)
 - Display of SMS receipt
 - Import and export of GPX files
 - Save traveled journey as a route
 - Manual altitude calibration
 - Service interval display possible
 - eShift support
 - Shift recommendation
- Basic package (free of charge)
 - Premium (available for in-app purchase)
 - Innovations in the basic package
 - New Premium features

Technical Details PowerPacks

										
	PowerPack 500		PowerPack 400		PowerPack 300		DualBattery 1000		DualBattery 800	
Available for	Performance / Active Line		Performance / Active Line		Performance / Active Line	Active Line	Performance / Active Line		Performance / Active Line	
Mounting type	Frame battery	Rack battery	Frame battery	Rack battery	Frame battery	Rack battery	Frame + frame battery	Frame + rack battery	Frame + frame battery	Frame + rack battery
Voltage	36 V	36 V	36 V	36 V	36 V	36 V	36 V	36 V	36 V	36 V
Capacity	13.4 Ah	13.4 Ah	11 Ah	11 Ah	8.2 Ah	8.2 Ah	26.8 Ah	26.8 Ah	22 Ah	22 Ah
Energy content	500 Wh	500 Wh	400 Wh	400 Wh	300 Wh	300 Wh	1000 Wh	1000 Wh	800 Wh	800 Wh
Weight	2.6 kg	2.7 kg	2.5 kg	2.6 kg	2.0 kg	2.4 kg	5.2 kg	5.3 kg	5.0 kg	5.1 kg
Size (mm)	325 x 92 x 90	372 x 122 x 80	325 x 92 x 90	372 x 122 x 80	325 x 92 x 82	372 x 122 x 80	325 x 92 x 90 325 x 92 x 90	325 x 92 x 90 372 x 122 x 80	325 x 92 x 90 325 x 92 x 90	325 x 92 x 90 372 x 122 x 80

Technical Details Drive Units

						
	Performance Line CX 25 km/h	Performance Line Speed 45 km/h	Performance Line Cruise 25 km/h		Active Line Cruise 25 km/h	
Gear type	Derailleur system	Derailleur system	Derailleur system	Hub gear system	Derailleur system	Hub gear system
Power	250 watts	350 watts	250 watts	250 watts	250 watts	250 watts
Support level (%)	TURBO: 300 SPORT: 210 TOUR: 120 ECO: 50	TURBO: 275 SPORT: 190 TOUR: 120 ECO: 55	TURBO: 275 SPORT: 190 TOUR: 120 ECO: 50	TURBO: 260 SPORT: 170 TOUR: 110 ECO: 50	TURBO: 250 SPORT: 150 TOUR: 100 ECO: 40	TURBO: 225 SPORT: 150 TOUR: 100 ECO: 40
Maximal possible drive torque (Nm) (converted to a gear ratio of 1:1 crankset to chainring)	TURBO: 75 SPORT: 60 TOUR: 50 ECO: 40	TURBO: 63 SPORT: 55 TOUR: 50 ECO: 40	TURBO: 63 SPORT: 55 TOUR: 50 ECO: 40	TURBO: 50 SPORT: 50 TOUR: 45 ECO: 40	TURBO: 50 SPORT: 45 TOUR: 40 ECO: 35	TURBO: 48 SPORT: 45 TOUR: 40 ECO: 35
Maximum cadence (rpm) with drive support	TURBO: 120 SPORT: 120 TOUR: 120 ECO: 120	TURBO: 120 SPORT: 120 TOUR: 120 ECO: 120	TURBO: 120 SPORT: 120 TOUR: 120 ECO: 120	TURBO: 120 SPORT: 120 TOUR: 120 ECO: 120	TURBO: 100 SPORT: 100 TOUR: 100 ECO: 90	TURBO: 100 SPORT: 100 TOUR: 100 ECO: 90
Start-up behavior	Very sporty	Sporty	Sporty	Dynamic	Harmonious	Harmonious
Max. support up to	25 km/h	45 km/h	25 km/h	25 km/h	25 km/h	25 km/h
Backpedal function	no	no	no	no	no	optional
Gear shift detection	yes (dynamic)	yes	yes	no	yes	no
Weight	< 4.0 kg	< 4.0 kg	< 4.0 kg	< 4.0 kg	< 4.0 kg	< 4.0 kg

Questions and Answers

► Does Bosch produce its own eBikes?

Bosch does not manufacture its own eBikes. As a provider of eBike systems, we work together with renowned bicycle manufacturers who develop Pedelecs. More than 60 well-known bicycle brands already use eBike systems with the “epowered by Bosch” quality seal.

► Which bike brands offer the Bosch eBike system?

You can find an overview of all manufacturers who develop eBikes epowered by Bosch here: [bosch-ebike.com/ebike-brands](https://www.bosch-ebike.com/ebike-brands)

► Is a dealer directory available?

Our dealer search provides details of all bicycle retailers who sell eBikes epowered by Bosch. We recommend Bosch eBike experts in Germany, Switzerland and Austria in particular because they provide special professional advice. You can find an overview of all retailers who sell eBikes epowered by Bosch here: [bosch-ebike.com/dealer-locator](https://www.bosch-ebike.com/dealer-locator)

► Which system variants does Bosch offer?

Bosch eBike Systems currently offers three product lines: The harmonious Active Line, the sporty Performance Line and the powerful Performance Line CX designed specially for eMountain biking. The Drive Unit Active Cruise provides support up to 25 km/h and is also available with an optional backpedal function. The drive unit for the Performance Line is available in the Cruise (up to 25 km/h) and Speed (up to 45 km/h) variants.

► Is tuning allowed?

No, tuning is not permitted. Using a tuning kit or manipulating your Bosch eBike system in any other way will invalidate your warranty and any warranty claims on the purchased wheel. As a general rule, using the system improperly will also reduce the service life and risk causing damage to the drive unit and wheel. You may also endanger your safety and the safety of other road users as well as incurring high personal liability costs and even criminal prosecution as a result of accidents attributed to tuning. Bosch eBike Systems therefore asks that all riders and providers refrain from tuning eBikes.

► Can a wheel be retrofitted with the Bosch eBike system?

For technical reasons, the Bosch eBike system is not available as a retrofit kit. A special frame is required to integrate the drive system in the bike. Bicycle manufacturers produce the frame specially for eBikes epowered by Bosch. We work together with more than 60 renowned eBike manufacturers. You can find an overview here: [bosch-ebike.com/ebike-brands](https://www.bosch-ebike.com/ebike-brands)

► Which parts of the Bosch drive system can riders repair themselves?

If a wheel fitted with a Bosch drive system develops a defect related to our eBike drive, we recommend consulting a professional bicycle retailer specializing in eBikes. The retailer will have all the right special tools such as a software diagnosis tool to identify the exact problem. Even ambitious bicycle repair enthusiasts may not be able to repair the defect and there is a significant risk that unprofessional repairs will compromise the safety of the overall system.

► Battery repairs, cell replacement and “refreshing” the battery?

“Many companies or internet-based service providers offer a battery repair, cell replacement or even a battery “refreshing” service: are these solutions suitable for repairing defective batteries?”

Batteries manufactured by Bosch eBike Systems are finely tuned systems that require special expert knowledge to repair. A defective battery must always be replaced and then inspected by our service specialists. Opening or leaving a battery open can be dangerous: Repairing our batteries unprofessionally can lead to functional impairments and uncontrolled thermal reactions. Opening or modifying the batteries will void any warranty. This also applies for any other manipulations to the battery. If you have any questions about your battery, please always contact your local specialist retailer, who will get in touch with our service department.

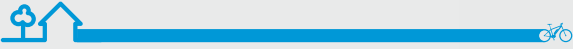
► I have found a used battery for the Bosch eBike system online. Can I use it?

When purchasing used batteries, always make sure that they have not been damaged by their previous owner. Damaged batteries are occasionally available online but they pose a significant risk and can lead to dangerous malfunctions. Sometimes illegal or stolen goods are available online as well. If applicable, ownership of such goods cannot be acquired legally in accordance with § 935 BGB [Bürgerliches Gesetzbuch, German civil code].

► Alternative replacement battery for the Bosch eBike system?


“I have found a low-cost replacement battery for the Bosch system online, but it was not manufactured by Bosch. Can I use this battery?”

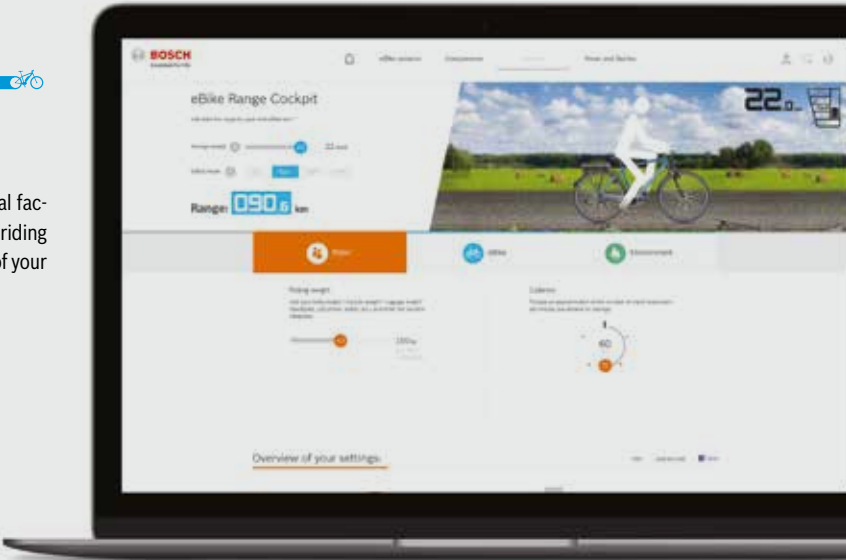
We would strongly advise against using non-original Bosch replacement parts. The software and hardware used for our eBike systems are perfectly adapted to one another in order to guarantee maximum efficiency and safety. Only Bosch PowerPacks can guarantee this level of safety.



► What range can the Bosch eBike system achieve?

The range of the PowerPack depends on many different influential factors: Which drive unit is fitted to your eBike, what terrain you are riding over and what is your average speed? You can calculate the range of your own eBike epowered by Bosch using our range assistant.

 Calculate your range using the range assistant at [bosch-ebike.com/range-assistant](https://www.bosch-ebike.com/range-assistant)



► Alternative charger for the Bosch eBike system?

“I have found a low-cost charger online for my eBike with Bosch system. Can I use it?”
Our charger is adapted specifically to the Bosch eBike system and has the right software for charging and managing the Bosch battery efficiently. Using a different charger voids the warranty and may reduce the service life of your battery as well as cause other damage or malfunctions in your eBike system.






► Purchasing a converted eBike?

“I would like to purchase a used eBike. The previous owner said that he made a “few improvements to the eBike components”. What do you make of it?”
Our advice: Always decline offers of this kind. The Bosch eBike system is designed for maximum safety and durability, all system components are controlled and monitored by extremely complex software. Any intervention in the system design will almost certainly have a negative affect on performance. Possible consequence: The safety of the rider is endangered and use of the system may contravene statutory regulations.

► What warranty periods apply to the Bosch eBike system?

Bosch grants the manufacturer a warranty for the entire system. Please ask your retailer about the conditions of the relevant manufacturer.

► How long does the battery take to charge?

Charging time (Standard Charger)	50% Charge	100% Charge
 500	2.0 h	4.5 h
 400	1.5 h	3.5 h
 300	1.0 h	2.5 h
 1000	4.5 h	9.0 h
 800	3.5 h	7.0 h

Note: The charging times are longer when the Compact or Travel Chargers are used

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