



eBike Systems

YAMAHA

PW-LINK

The PW-LINK System features a fully integrated and interchangeable lineup of drive units, batteries, and displays. This flexibility allows eBike manufacturers to use a single frame design with a range of PW-LINK combinations—enabling greater customization and variety for end consumers.

Marking a significant evolution in Yamaha’s product offering, each component within the PW-LINK System is developed and manufactured in Yamaha’s advanced facilities in Japan and France. With over 30 years of expertise in eBike systems engineering and production, Yamaha has created one of the most sophisticated and dependable eBike systems on the market—designed to deliver a premium riding experience.

Yamaha is strengthening its collaboration with eBike partners through the launch of an advanced CAN-OPEN EDS platform. The PW-LINK System serves as a dynamic bridge between Yamaha and its network of partners, empowering OEM brands to play an active role in the co-development of future eBike models. This deeper integration fosters more meaningful partnerships and unlocks new levels of functionality and innovation.

By working as a fully integrated partner with each original equipment manufacturers. Yamaha is uniquely positioned to deliver customized solutions that can reshape the product development process—streamlining workflows, increasing efficiency, and significantly reducing the time from prototype to production.

Key Features of the PW-LINK System:

Drive Units

Three main models optimized for various eBike styles: PW-X4: Lightweight (2.6kg), compact, and the most powerful unit with 100Nm of torque and 48V output. PW-S3 Series: Versatile options for everyday, fast, and cargo riding, with torque ranging from 60Nm to 85Nm. PW-L1: Ultra-light (2kg), ideal for climbing and mountain riding with 60Nm torque. All units include Zero Cadence Technology, full compatibility with PW-LINK batteries and displays, low noise, compact design, and easy third-party integration.

Batteries

Two high-performance 48V batteries designed for safety, efficiency, and flexibility:

PW-LINK Integrated Battery 840: 48V, 842Wh, 4.2kg, anti-theft features, top-tier energy density and safety. PW-LINK Integrated Battery 560: 48V, 560Wh, 3.2kg, ideal for short trips, with dual-battery support and robust fire prevention systems.

Displays

PW-LINK Side Display: Compact TFT LCD, ergonomic controls, customizable interface. PW-LINK Integrated Display: Sleek, top-tube embedded design with ANT+ compatibility and essential ride data visibility.

Yamaha PW-LINK App

A next-gen app offering Bluetooth connectivity to all components, real-time performance data, anti-theft features, and maintenance notifications. It’s customizable for OEM partners and enhances the rider’s control and experience.

Yamaha eBike Systems Service Platform

Recently launched in France, this dealer platform provides training, spare parts ordering, warranty handling, and technical support. It aims to expand across Europe to support the PW-LINK System and strengthen dealer-customer relationships.



PW-X4

Ultimate e-MTB performance.

Light, compact and powerful, the new PW-X4 gets a significant boost in performance, making it Yamaha’s ultimate e-MTB drive unit. Weighing just 2.6 Kg and producing 100 Nm of peak torque, 800W power output, this high-tech 48V design delivers formidable power for total freedom to live your dreams on the toughest mountain trails.

- 48V system with increased power and riding range
- Best in class torque-to-weight ratio
- 100 Nm peak torque
- 800W power output
- Zero Cadence technology for instant assist
- Smooth, quiet and natural riding feeling
- Light, compact and unique design



PW-L1

Lighter. Smaller. More powerful.

Incredibly light and super compact, Yamaha’s new PW-L1 is the ultimate drive unit for riders seeking the fastest hill climbing potential. Using a magnesium casing and weighing in at less than 2 kg, this new lightest-in-class 48V motor delivers 60 Nm maximum torque for stronger continuous high performance that takes you further and faster into new terrain..

- Ultimate hill climbing potential
- Lightest-in-class weight under 2 kg
- Ultra compact design
- 48V system with increased power and riding range
- Continuous high performance
- 60 Nm peak torque
- Zero Cadence technology for instant assist
- Smooth, quiet and natural riding feeling



PW-S3

Trek, explore, deliver, commute. PW-S3 does it all.

Yamaha’s new PW-S3 weighs just 2.8 kg, delivers up to 85 Nm of torque, and comes in three versions - PW-S3, PW- S3 Cargo and PW-S3 Easy* – sharing the same platform design, allowing versatile specifications for bicycle manufacturers. Equipped with sophisticated Zero Cadence technology for instant assist together with a quiet and natural ride feeling, this compact and versatile 48V drive unit can handle just about everything – from trekking and commuting through to cargo deliveries and urban exploration.

- Versatile all-rounder: commuter, sports, adventure, trekking, cargo and more
- Stronger mid to high speed performance (vs PW-S2)
- Light and compact design
- 48V system with increased power and riding range
- PW-S3 Cargo 85 Nm / PW-S3 85 Nm / PW-S3 Easy 60 Nm
- Zero Cadence technology for instant assist
- Smooth, quiet and natural riding feeling

PW-LINK Side Display

Simple. Intuitive. Sporty.

Yamaha's robust and stylish new PW-LINK Side Display is designed to give you the key information you need in a simple and easy to read format. Its compact body features thumb and forefinger activated buttons that give you access to a choice of two screens that tell you what you need to know.



- Compact colour TFT LCD screen
- Superior feel and robust construction
- Key information displayed in a simple format
- Anti scratch monitor
- Yamaha App support
- Seamless fit to the handlebars
- Intuitive thumb and forefinger controls

PW-LINK Integrated Battery 560

Power you can rely on.

Yamaha's new PW-LINK Integrated Battery 560 is designed to provide you with reliable power every day of the week. From commuting to work through to weekend outings, this light, compact and robust battery gives you the performance, range and reliability that you're looking for.

- Robust and reliable Yamaha power
- 561 Wh, 48V, 3.2 kg
- Ideal for commuting and weekend outings
- Fire propagation prevention structure
- Dual battery support
- Compatible with latest Yamaha drive units and displays
- Compact dimensions, suitable for S-size frame upwards
- Yamaha quality and durability
- Anti-theft authentication feature via Yamaha App
- Industry leading fire suppression
- Comprehensive Yamaha App support



PW-LINK Integrated Display

Minimalist style with full size visibility.

Fully embedded in the frame, the new Yamaha PW-LINK Integrated Display provides you with the fundamental riding information while also enhancing the overall style of your e-Bike. Its high visibility layout allows you to absorb key data with a quick glance, and the intuitive switch layout makes it easy to operate.

- 1.9-inch colour screen
- Premium quality
- Seamless frame-embedded design
- Minimalist looks
- Robust construction
- Key information on home screen
- Yamaha App support
- Simple control buttons



PW-LINK Integrated Battery 840

Best-ever capacity-to-weight ratio.

With its best in class capacity-to-weight ratio, Yamaha's game-changing PW-LINK Integrated Battery 840 battery gives you a new level of freedom to ride faster and travel further. Weighing just 4.2 kg and producing 842 Wh, this ultra compact new 48V battery takes you further into the mountains on every ride.

- Largest capacity-to-weight ratio of all time
- 842 Wh, 48V, 4.2 kg
- More performance, greater riding range
- Dual battery support
- Compatible with latest Yamaha drive units and displays
- Compact dimensions, suitable for S-size frame upwards
- Yamaha quality and durability
- Anti-theft authentication feature via Yamaha App
- Industry leading fire suppression
- Comprehensive Yamaha App support



Yamaha PW-LINK App

Adding another dimension to every ride.

Over 30 years ago Yamaha produced the first ever production e-Bike – and forever changed the world of personal mobility. Fully customizable to your individual requirements, the new Yamaha PW-LINK companion app takes the e-Bike experience to the next level by giving you total controllability as well as instant access to a huge amount of information.

As soon as you turn on your e-Bike you'll instantly feel the benefits of the new Yamaha PW-LINK companion app. Its Authentication function helps to increase security, and you can easily select the best assist levels and battery settings to match your riding style. The Revs Dashboard provides key information when you're on the move – and the Battery Reminder lets you know when it's time to charge.

Safety Ride Assist is a unique function that alerts you to speed, lighting and running time status – and the BT Navigation indicates the areas you can travel to with your current battery level. Real Time Coaching enables you to set and achieve fitness targets and view your progress – and there's a whole lot more to the Yamaha PW-LINK companion app that makes every ride special.

- Easy to use App for Yamaha powered e-Bikes
- Multiple functions that take the e-Bike riding experience to the next level
- Fully customizable to match different OE brands
- Enhanced anti-theft security
- Maintenance records and reminders
- Assist Tuning for optimum controllability
- Dashboard with Real-time Coaching
- Can be used with Yamaha e-Bikes

PW-LINK System partners



COMODULE

enviolo



velco



Yamaha eBike Systems Service

Dealer support anytime, anywhere.

Learn more



Based on four key pillars – Technical Support, Warranty, Training, and Spare Parts – **Yamaha eBike Systems Service** is a comprehensive back up scheme that provides fast and effective support via locally-based teams.

Technical Support

By maintaining a close relationship with eBike Manufacturers – and understanding their specific needs to support Bicycle dealers – Yamaha's Technical Support teams ensure a fast and efficient back up. The Yamaha diagnostic tool offers Bicycle dealers the following features:

- Instant fault diagnosis
- Creation of Pre Delivery Inspection reports
- Create individual repair records and registrations
- Check latest error codes and technical data for eKit components
- Easy access to eBike repair manuals and parts books

Warranty

Yamaha's PW series drive units are among the most reliable systems available. If a warranty claim occurs the Technical Support teams are trained to respond quickly and keep parties involved fully informed at all times. The diagnostic tool can generate a diagnostic report which can be submitted to the eBike manufacturer together with a warranty request.

- Fast and efficient warranty service from initial claim to final approval
- Immediate access to every Yamaha eBike System specifications
- Component search function for drive units, displays, batteries and components

Replacement Parts

Yamaha is committed to offering one of the quickest and most efficient Replacement Parts systems in the business. The company distributes parts and accessories throughout the whole of Europe from two strategically chosen locations in the Netherlands and France.

- Fast and efficient replacement parts service
- 24-48 hours delivery
- Central Schiphol-Rijk location



Training

Yamaha has unrivalled knowledge in the design and manufacture of eBike Systems, and the Yamaha Motor Academy is continuously training dealers across Europe with a range of highly accessible and engaging online and physical courses. With a mix of on-the-job learning, entertaining e-learning, co-operative interactions and conventional workshops Yamaha Motor Academy offers dealers a premium learning experience.

- Benefit from Yamaha's unrivalled eBike experience
- Continuously training dealers across Europe with the Yamaha Motor Academy
- Online and physical courses for Yamaha eBike System technicians
- Covering all aspects of eBike drive units, batteries, servicing and diagnostics
- 24/7 access to courses any time of the day or night via PC or Smartphone





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Dealer

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