SPECIFICATIONS



Drive Unit

Drive unit type	Center Motor
Weight	3.1 kg
Rated power	250[W]
Max. torque	80 Nm* (EXPW mode)
	70 Nm (High/STD/Eco/+Eco)
Max. cadence	120 rpm* (EXPW mode)
	110 rpm (High/STD/Eco/+Eco)
Max support Speed	25 km/h
Support Mode (%)	5 modes
	-EXPW/320
	-HIGH/280
	-STD/190
	-ECO/100
	-+ECO/50
	*Depending on battery condition and circumstances





Display, Switch and Others

Display	LCD with dot matrix
Connectivity	-USB power supply (1A)
	-BLE
Function	<always-on></always-on>
	-Speed
	-Battery capacity
	<selectable*></selectable*>
	-Average bicycle speed
	-Maximum bicycle speed
	-Trip meter
	-Odometer
	-Range
	-Battery capacity (%)
	-Cadence
	-Clock
	-Stopwatch
*Among selectable ite	ms, less frequently used functions can be hidden.
Battery	400 Wh Battery

500 Wh Battery



YAMAHA MOTOR CO., LTD

Overseas Sales Group, Marketing Division, Smart Power Vehicle Business Unit 2500 Shingai, Iwata, Shizuoka 438-8501, Japan Yamaha reserves the right to change specifications and appearance without notice. Detail and color of the catalog photo may be different from the real thing. The bicycle used in this catalog is a prototype unit manufactured solely for the purpose of promotion. The rider shown in this catalog is highly skilled in a closed area riding.

http://global.yamaha-motor.com/business/e-bike-systems/

YAMAHA e-Bike



AW-1607-001800



PW-X

Yamaha e-Bike Systems



*For European market in conformity to EN15194



Compact &

In order to realize "PURE RIDE", we sought to make it lighter, to improve quick esponse, and to achieve higher power. From low speed range to high speed range, a drive unit more loyal to the rider's will than ever before creates a totally new

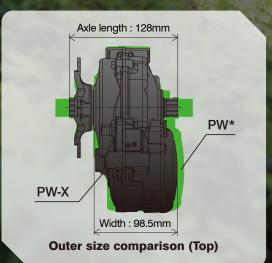
Dropping 380g changes A light weight, compact drive unit

Lightweight To make the drive unit more compact, means not simply reducing the overall weight of the machine, but not inhibiting the ideal frame design. Yamaha thoroughly lightened the weight down to 380g by making the axle

shaft hollow, thinning the driven gear, and thinning the case, while simultaneously reducing volume by nearly 13%. We also adopted a 128mm

ISIS interface BB Axle commonly used in MTB, responding to expectations for

a more authentic ride.



13% volume compact design



Achieved -380g with a thoroughly lightened design

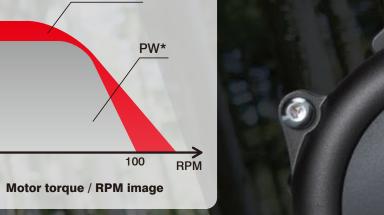
Supplies the desired power when needed.

"Truly powerful" as Yamaha sees it is the ability to deliver the power the rider wants quickly

YAMAHA

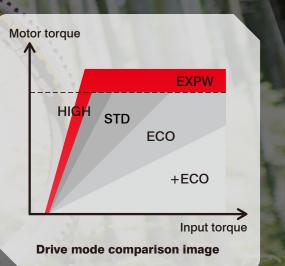
PW-X inherited its well established power and control technology, while also adopting a fifth mode; Extra Power Mode.

With EXPW mode, it succeeds in further releasing power originally held by the motor, via the drastically improved cooling effect. It not only improves assist torque in all ranges; compared with conventional models, it better maintains assistance up to high rpm. It also offers strong support to riders recovering from tight turns or climbing challenging steep slopes.



rong Power Assist up to 120rg

PW-X (EXPW)



Updated m control program realize previ

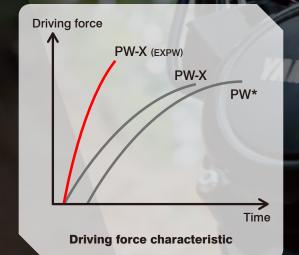
To offer a ride directly linked to the rider's intent, Yamaha revised both the mechan components and control program, in the pursuit of quicker, more direct response to pedaling In order to reduce mechanical time lag, we reduced backlash of the ratchet mechanism by 1/3 Lightening large moving parts, such as the axle shaft and reduction gear, also contributes to a quick response.

In EXPW mode, we more finely tuned the output characteristics of the motor. This keeps massive power while balancing quick response and maneuverability at a high level.

YAMAHA

Teeth×1.5 × Ratchet timing×2 Backlash 1/3 Reduction

Freewheel comparison



The EXPW Mode of PW-X realizes the fastest response so far

SIMPLE AND TOUGH

Updated interface that supports "PURE RIDE"

Yamaha updated the interface so that the rider can concentrate on just the ride. The concept of the display is "Simple and Tough". Toughness that can withstand hard riding also

In the operation system, we designed a new, ergonomic switch that maintains high operability during any type of riding. Coupled with the LED Assist Mode Indicator that enables the rider to check the selected mode instantly even during hard riding, it casually but firmly supports the rider. In terms of communications, it opens riding to unlimited forms of enjoyment by supporting BLE and connecting to a variety of apps.



Installation example

The switch improves opera ith its ergonomic desig

nly visible Display and **Assist Mode Indicator**

*PW series released in 2013