Made to Last

Waterproof IP67

Multi-collision protection

A safe and reliable 96V electrical platform complying with IEC standards.

Minimum 5,000 hours of service life*
* Under experimental conditions.

Ultra-Low Noise, Vibration, and Harshness (NVH)

At their maximum noise level of 73 dBA, X Series outboards are quieter than most offices! Achieved through advanced damping technology and frequency resonance isolation, this means you can enjoy the water more, without shouting at each other or scaring away the wildlife.

Vibration damping technology

Environmentally Friendly

X Series outboards are zero-emission. Compared to a 60 hp petrol outboard, operating at full power for 100 hours, an X40 would save 1900 litres of petrol and 4.3 tonnes of CO_2 pollution.

0 EMISSIONS

10240 Wh / 96 V

G102-100 Battery
Lithium Iron Phosphate Battery (LiFePO4)

Capacity	10240 Wh
Rated Voltage	102.4 V
Battery Life	3,000 cycles at 80% DOD
Weight	100 kg
Dimensions	680 x 500 x 300 mm (26.8 x 19.7 x 11.8")
Cut-off Voltage	83.2 V
Final Charging Voltage	115.2 V
Max Continuous Discharging Current	100 A

Serial Connection	N/A
Parallel Connection	Up to 8 in 1 cluster. Multiple clusters are possible in the system
Cell Configuration	32S1P
Charging Temperature	0°C to 55°C
Discharging Temperature	-10°C to 60°C
Shipping Classification	UN3480, Class 9, UN38.3 Certified
Certifications	CE, UKCA, FCC
Communication	One CAN for ePropulsion motors One CAN (Two ports) for parallel batteries One CAN for charger

Specs

	X40 **40 kW**		X20 **20 kW**		X12 **12 kW**	
	L Shaft	**XL Shaft**	**L Shaft**	**XL Shaft**	**S Shaft**	**L Shaft**
Motor Weight (excluding control)	104 kg (229.3 lbs)	106 kg (233.7 lbs)	79 kg (174.2 lbs)	81 kg (178.6 lbs)	48 kg (105.8 lbs)	50 kg (110.2 lbs)
Shaft Length	508 mm (20")	635 mm (25")	508 mm (20")	635 mm (25")	381 mm (15")	508 mm (20")
Dimensions (L x W x H)	757 x 360 x 1233 mm (29.8 x 14.2 x 48.5")	757 x 360 x 1360 mm (29.8 x 14.2 x 53.5")	674 x 360 x 1229 mm (26.5 x 14.2 x 48.4")	674 x 360 x 1356 mm (26.5 x 14.2 x 53.4")	560 x 266 x 978 mm (22 x 10.5 x 38.5")	560 x 266 x 1105 mm (22 x 10.5 x 43.5")
Input Power	40 kW		20 kW		12 kW	
Nominal Voltage	96 VDC		96 VDC		96 VDC	
Cooling System	Closed loop liquid cooling		Natural cooling		Natural cooling	
Rated RPM	1500 to 2100		1200 to 1800		1100 to 2000	
Trim and Tilt	Power trim/tilt		Power trim/tilt		Power trim/tilt	
Trim / Tilt Angle	-4° to 61°		-4° to 61°		-4° to 61°	
Steering	Integrated electric steering		Integrated electric steering		Integrated electric steering	
Steering Angle	±45°		±45°		±45°	
Propeller	15" x 10 3/4" propeller (available in L&R rotation) 13 3/8" x 16 3/4" propeller (available in L&R rotation)		15" x 10 3/4" propeller (available in L&R rotation) 13 3/8" x 16 3/4" propeller (available in L&R rotation)		11 13/16" x 10 5/8" propeller (available in L&R rotation) 11 7/16" x 14 13/16" propeller (available in R rotation)	

* The specifications are for reference only.

EPROPULSION

X40 X20 X12 NEW

EPROPULSION X SERIES ELECTRIC OUTBOARD MOTORS

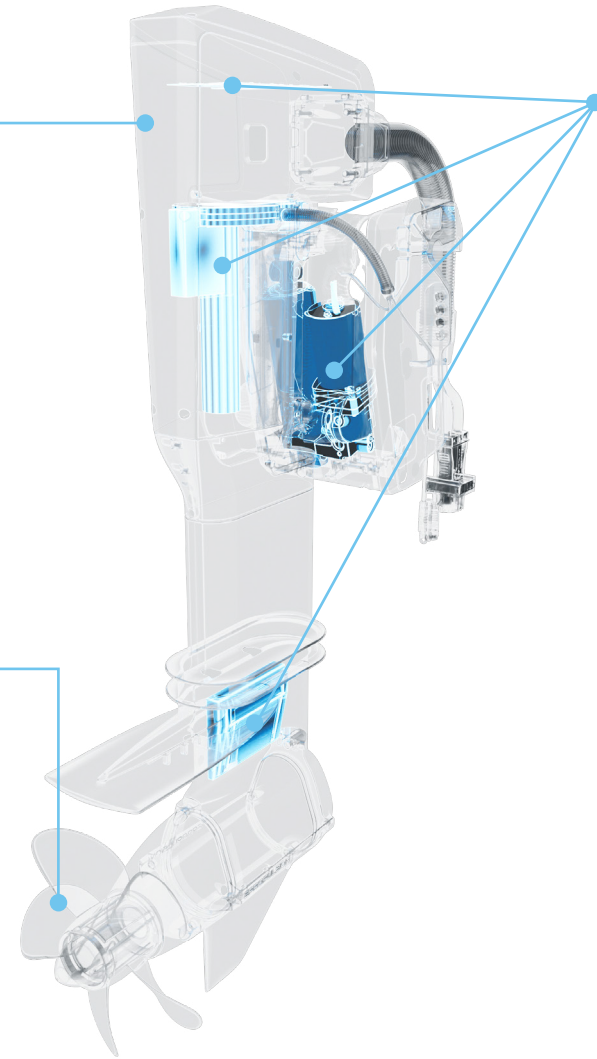Clean · Quiet · Powerful · Easy-to-Use

Compact & Fully Integrated Space-Saving Design

Narrow footprint, with no external steering gear, maximises valuable stern space... more room for boarding, swimming and socialising.

The electric steering, power trim/tilt, ECU (electric control unit), and motor controller are all integrated into one unit.

40/20/12 kW
of continuous power.

88.2%
total powertrain efficiency (excluding propeller).

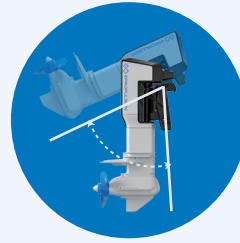### Max. 36%
less weight than its conventional equivalent*.

* The weight includes the engine and the steering.

Advanced propeller design

Unparalleled hydrodynamic performance and higher efficiency.

Performance and Range*

	X40			X20			X12		
Input (kW)	10	20	40	5	10	20	3	6	12
Speed (kph / mph)	12.6 / 7.8	15.4 / 9.6	35.9 / 22.3	11 / 6.8	14 / 8.7	26 / 16.2	14.5 / 9	20.4 / 12.7	30.1 / 18.7
Runtime (hh:mm)	4:00	2:00	1:00	4:00	2:00	1:00	3:20	1:40	0:50
Range (km / mile)	50.4 / 31.3	30.8 / 19.1	35.9 / 22.3	44 / 27.3	28 / 17.4	26 / 16.2	48.3 / 30	34 / 21.1	25.1 / 15.6

* The X40's performance data is based on a 20-foot V hull aluminum boat with two persons (130kg), powered by one X40 with four G102-100 batteries (total boat weight 1030kg), in calm lake water.
The X20's performance data is based on a 14-foot V hull aluminum boat with two persons, powered by one X20 with two G102-100 batteries (total boat weight 660kg), in calm lake water.
The X12's performance data is based on a 11-foot aluminum hull inflatable boat with one person, powered by one X12 with one G102-100 battery (total boat weight 320kg), in calm lake water.
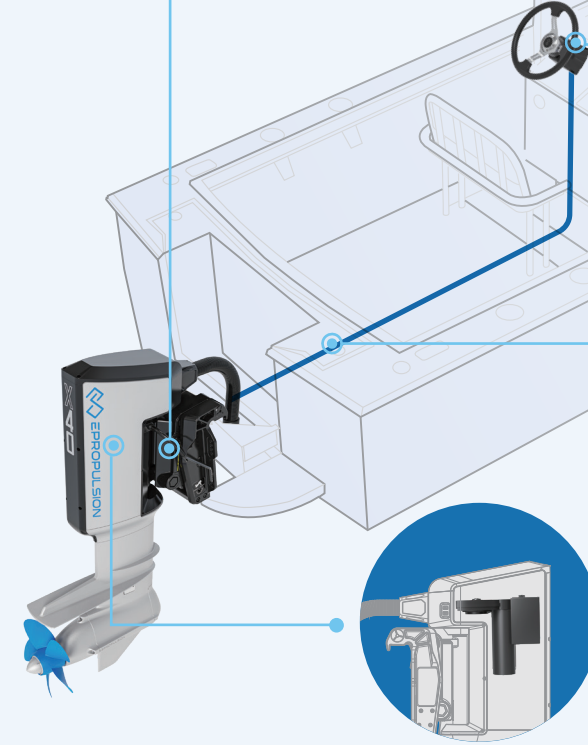
Enhanced User Experience

Power trim / tilt

Comfortable and intuitive control

X Series' digital helm and smart throttles, with instant digital feedback, are responsive and easy to operate, even for boating novices.

- Streamlines installation.
- Minimises complex wiring.

Integrated electric steering

The X Series' electric steering eliminates the need for hydraulics, so it's easier to install and maintain. It also serves as a gateway to our Advanced Driving Assistance Systems, with enhanced safety and control features that revolutionise the boating experience.

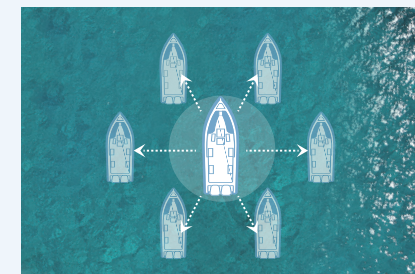## Cutting-edge driving assistance features

Integrated electric steering enables automated features such as "Position Hold", "Heading Hold", and "360 Motions" for additional safety and easy control. More features to come in the future.
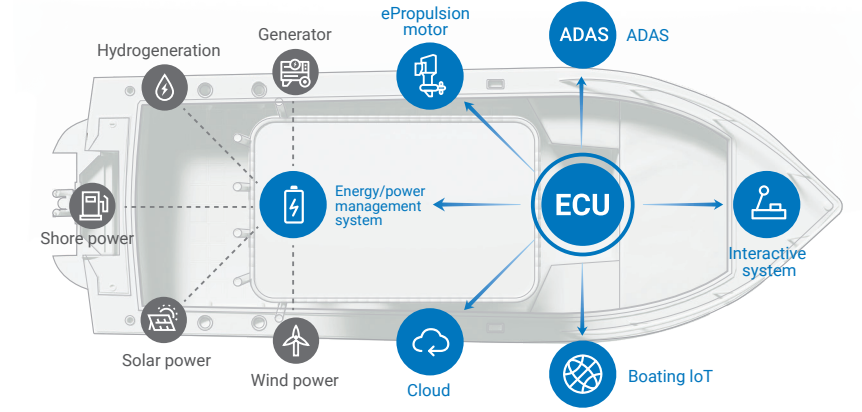
Position Hold

Heading Hold

360 Motions

ePropulsion Smart System Architecture (eSSA)

■ eSSA makes setting up an X Series system seamless and worry-free.The modular architecture supports simple and safe connection of multiple components and enables integration with renewable energy sources, enhancing the sustainability of your boating experience.

Hydrogeneration · Generator · ePropulsion motor · ADAS
Shore power · Energy/power management system · ECU · Interactive system
Solar power · Wind power · Cloud · Boating IoT

■ **A comprehensive range of accessories:**

- Smart Throttle
- Digital Helm
- Smart Display 5"
- Smart Display 10"
- Propellers for different speeds or conditions

- G102-100 Battery
- MPPT Solar Charge Controller
- DC-DC Converter
- Battery Chargers with different power capacities
- More coming soon...

ePropulsion Link

Connectivity

X Series motors have ePropulsion's Connectivity Service built in. This keeps you in touch with your boat's status in real time, including monitoring, reporting, and trip tracking functions.