YANMAR Launches Complete YF12e Hybrid Propulsion System

YANMAR Marine International has officially launched the YF12e Hybrid system, a four-mode fully integrated solution to accelerate sustainable propulsion and onboard power.

Engineered specifically for 40–50ft displacement vessels, the YF12e Hybrid brings together a combustion engine, hybrid marine gear, electric motor, lithium-ion battery, and intelligent control system into one fully matched package.

By engineering the complete system under a single warranty and backing it with YANMAR's global service network, the launch offers boat builders a streamlined approach to specification, installation, and aftersales support.

The system features four versatile operating modes: electric-only, diesel-only, hybrid propulsion, and generator mode.

This flexibility empowers boat owners to enjoy silent, zero-emission electric operation when in EV mode for low-speed manoeuvring or navigation, while preserving the extended range and adaptability of traditional diesel propulsion.

Central to the design is YANMAR's KM-70HEA hybrid marine gear, seamlessly integrated with an electric motor and VC30 control system.

Its patented two-clutch transmission automatically selects the optimal motor speed for both propulsion and battery charging, maximizing efficiency and enhancing performance.

In Hybrid mode, the propulsion engine can generate up to 10.5kWe of electrical power while underway, minimizing the need for a separate onboard generator.

The YF12e Hybrid delivers electric propulsion up to 12.1kWe and is compatible with seven YANMAR common-rail engine models. An intuitive 5-inch touchscreen enables easy control and real-time monitoring of operating modes, engine and motor status, battery charge, and power flow.

Wouter-Jan van der Wurff, President and CEO of YANMAR Marine Recreational Business Unit said: "Our aim with the YF12e Hybrid is to make the benefits of hybrid technology more accessible to boat builders and owners, while maintaining the reliability, performance, and support they expect from YANMAR. Focusing on a fully integrated, technically optimised solution ensures a seamless experience and ease of use. "

The YF12e Hybrid further expands the company's sustainable propulsion portfolio, joining its HVO-compatible diesel engines and SDe electric saildrive range.

For further information, visit www.yanmar.com/marine.

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For further information or images, please contact the YANMAR team at McKenna Townsend by calling +44(0)1425 472330 or emailing yanmar@mckennatownsend.com

About YANMAR

With beginnings in Osaka, Japan, in 1912, YANMAR was the first ever to succeed in making a compact diesel engine of a practical size in 1933. A pioneer in diesel engine technology, YANMAR is a global innovator in a wide range of industrial equipment, from small and large engines, agricultural machinery and facilities, construction equipment, energy systems, marine, to machine tools and components — YANMAR's global business operations span seven domains. Guided by its Brand Statement, "A Sustainable Future – New Value Through Technology," YANMAR provides advanced solutions to the challenges customers face on land, at sea, and in the city, working towards realizing a sustainable future.

https://www.yanmar.com/global/about/