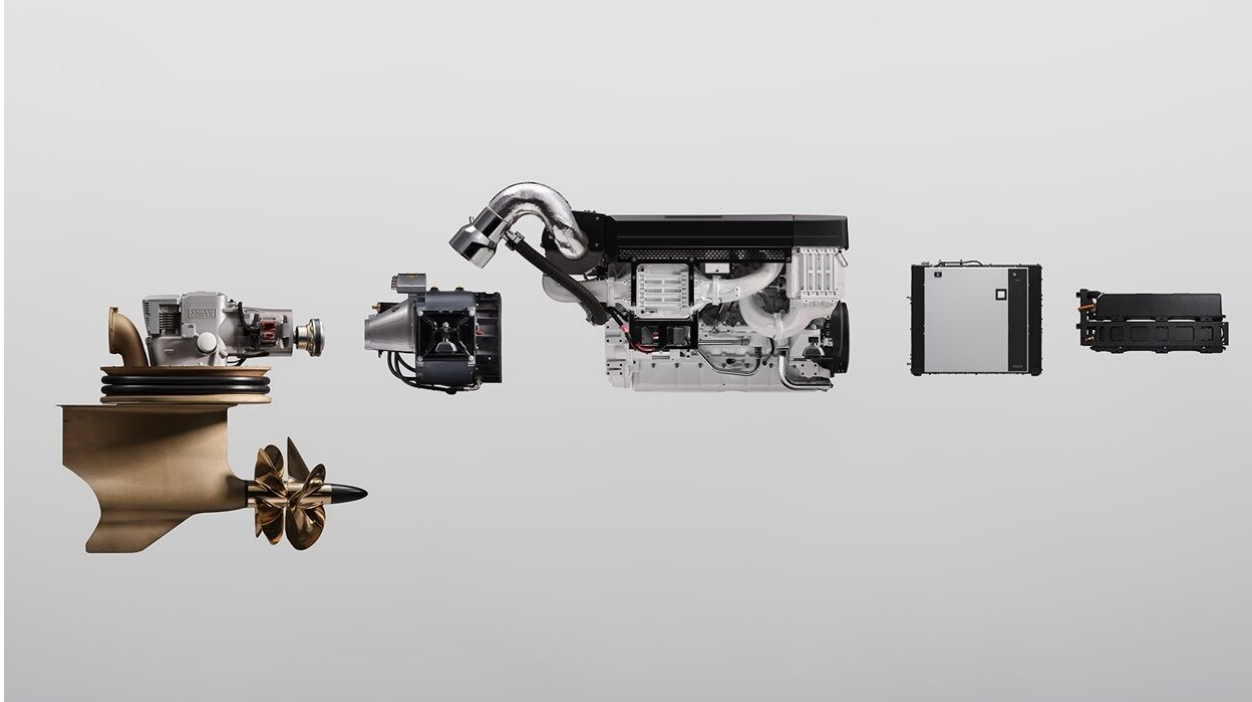


Preparing to launch new IPS Hybrid propulsion system for yachts

Volvo Penta has revealed details of a new D13 IPS Hybrid yacht propulsion system it aims to bring to market later in 2026. The fully integrated hybrid-electric platform combines superior onboard comfort with simplified ownership, installation and design. Built on the company's proven Volvo Penta IPS technology, the new system represents a major step forward in delivering a complete helm-to-propeller solution.

The Volvo Penta D13 IPS Hybrid is designed to transform the yachting experience through near-silent operation, intuitive control and a unique level of system integration. By combining propulsion, electric motors, batteries, energy management and controls into a single, cohesive package, the system reduces complexity for owners, captains, designers and boat builders.

"Our new Volvo Penta D13 IPS Hybrid is a complete helm-to-propeller marine solution," says Hanna Ljungqvist, President of Volvo Penta's Marine Business. "By delivering a fully integrated package with one point of responsibility, we simplify everything from design and installation to operation and service, while elevating onboard comfort and performance."



Increased efficiency and an optimized onboard experience

At sea, the system allows the captain to select between electric, hybrid and crossover modes. In pure electric mode, yachts can cruise quietly at low speeds, dock with precision and anchor in near silence. With noise and vibration dramatically reduced, the natural sounds of the ocean can take center stage. Furthermore, high-capacity batteries also power onboard amenities without the need for a generator, enabling peaceful nights at anchor and the possibility to enjoy reduced emissions.

The D13 IPS Hybrid is compatible for use with HVO100, a renewable paraffinic fuel that can reduce emissions by up to 90% compared to conventional diesel. In addition, the system has a compact aftertreatment system that complies with IMOIII, the toughest emission legislation.

Central to the system's innovation is its fully integrated architecture. All components are connected through Volvo Penta's Electronic Vessel Control (EVC) system, ensuring that signature features such as Joystick Driving, Assisted Docking, Autopilot and Glass Cockpit operate seamlessly across all drive modes. This integration provides precise control, particularly in low-speed maneuvering and tight docking situations, while maintaining a consistent and intuitive user experience.

Complete IPS Hybrid yacht solution streamlines build and simplifies ownership

For yacht builders and designers, a “one-stop shop” approach delivers significant advantages from the earliest stages of a project. By offering a complete hybrid electric yacht propulsion solution – including propulsion, batteries, energy management and controls – Volvo Penta reduces the need for multiple suppliers and streamlines the entire build process.

Nicola Pomi, Vice President of Yacht & Superyacht Sales at Volvo Penta says, “By working as a single partner across the full system, we can support customers from initial design through installation and operation. This level of co-engineering and collaboration enables more efficient builds, optimized performance and greater flexibility in yacht design.”

The standardized Volvo Penta IPS footprint further simplifies installation, eliminating the need for complex shaft alignment and enabling a more plug-and-play approach. Designers benefit from increased flexibility in layout, including the potential for smaller engine rooms and more usable onboard space for guest areas and amenities. Early-phase collaboration with Volvo Penta also supports hull and propulsion alignment, performance optimization and smoother integration into production processes.

Service and support deliver peace of mind

Owners and captains benefit from the clarity and confidence that comes with a single-source system. With Volvo Penta responsible for the entire propulsion package, service and support become more straightforward. In addition, the company’s global service network provides access to trained technicians and advanced diagnostics, helping ensure reliable uptime and efficient issue resolution wherever the vessel operates.

“This is about delivering peace of mind as much as performance,” added Nicola Pomi. “With one partner standing behind the entire system, our customers can focus on enjoying their time on the water, knowing they have access to expert support every step of the way.”

In addition to enhancing comfort and simplifying ownership, the Volvo Penta D13 IPS Hybrid enables more efficient yachting. Its silent electric mode allows access to areas with higher demands on emission levels and environmentally sensitive areas.

With the launch of the complete D13 IPS Hybrid yacht package, Volvo Penta reinforces its commitment to innovation and leadership in marine propulsion – delivering a fully integrated, future-ready solution that redefines what yacht owners and builders can expect from a hybrid-electric system.

Volvo Penta IPS Hybrid technical system overview

- Volvo Penta IPS propulsion system, features, controls, batteries and energy management - brought together in a complete package
- Propulsion power D13: IPS900 – IPS1350 (515kW – 735kW)

- Electric propulsion power: 160kW
- Charging power: 43kW AC / 215kW DC / 250kW in generator mode
- Battery capacity: Small pack 147kWh / Large pack 221kWh
- AC house load power: 43,6 kVA
- 24V DC power: 7,5kW
- Fully compliant with IMO II/III and EPA Tier 3 standards

Volvo Penta marine battery system for IPS Hybrid

- Specifically designed for Volvo Penta IPS Hybrid offer
- Designed for tough marine conditions
- Optimized power / energy balance
- LFP chemistry
- High levels of power / energy density
- Available in two variants per twin installation
- DNV Type Approval
- Protective functionality built-in
- Continuous monitoring
- Robust performance
- Can be recharged while cruising

Volvo Penta IPS Hybrid power distribution unit (PDU)

- Designed with quality, reliability, safety, ease of use and installation in mind
- Features technology unique to Volvo Penta, aimed at reducing cabling, weight and installation time
- Includes DC Grid / 24V distribution / charger / house load converter / 24V DCDC
- Smart, integrated design consolidates key components in one place, simplifying serviceability.