

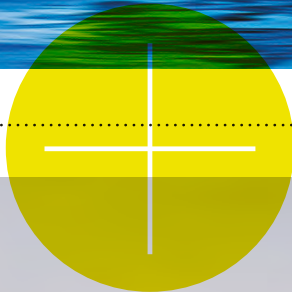
EX38 diesel-electric sport-fishing cruiser

Yanmar Marine has revealed its new diesel engine, the 6LY440, which is assembled with Transfluid's hybrid propulsion system, following one year on a test bench and one year of trials on board Yanmar's EX38 single-screw sport-fishing cruiser in the Sea of Japan.

Unveiled at the 2018 Japan International Boat Show in Yokohama earlier this year, the 6LY440 is a 5.8-liter six-cylinder engine rated at 324kW at 3,300rpm. Transfluid's HM2000-40 parallel system comes equipped with a 40kW permanent-magnet electric motor, a 2:1 ratio marine transmission, and a DNV GL type-approved LiFePO4 battery that produces 19.2kWh of energy at 96V DC.

The joint system offers several operational modes, including electric, diesel, booster (diesel-electric) and battery recharge, and can help provide redundancy for boats in difficult deep-sea areas. According to Transfluid, in addition to the Japanese domestic market, Yanmar plans to sell the technology around the Pacific and along the USA's west coast.

Transitions from electric to diesel mode and vice versa are automatic and can be performed independently of the vessel's speed



The whisper-quiet electric boats allow guests to get close to the rare animals that live in the River Safari without disturbing their natural behavior



Vinpearl electric passenger excursion boats

Torqueedo is supplying electric propulsion systems for a fleet of 15 passenger excursion boats recently delivered to Vinpearl's newest resort development at Hoi An, Vietnam. The 9m (29.5ft) FRP displacement craft, built by Song Lo Shipbuilding in Nha Trang, are each powered by Torqeedo Deep Blue 80 inboard electric motors with BMW i3 lithium batteries.

Vinpearl is the largest hospitality group in Vietnam with a chain of luxury hotels, villas and theme parks across the country. The new boats are being deployed at Vinpearl Land Nam Hoi An, a 154-acre theme park that opened in April. They operate at an average speed of 3kts (3.5mph) and are being used for sightseeing tours of the River Safari jungle habitat, as well as for entertainment in the replica Hoi An Old Town section of the park.

"Vinpearl will achieve significantly lower operating costs by equipping the boats with electric motors instead of combustion engines, with zero fuel costs, lower maintenance requirements and an industry-leading capacity warranty," says David Hunter, managing director, Torqeedo Asia Pacific.

"Their guests will have a much more pleasant onboard experience as they cruise through the park silently, with no noise, no vibration and no exhaust fumes on deck." +