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White Paper...

A revolutionary new, Hybrid power system with 360 degree drive for the Jeanneau 53 and 54



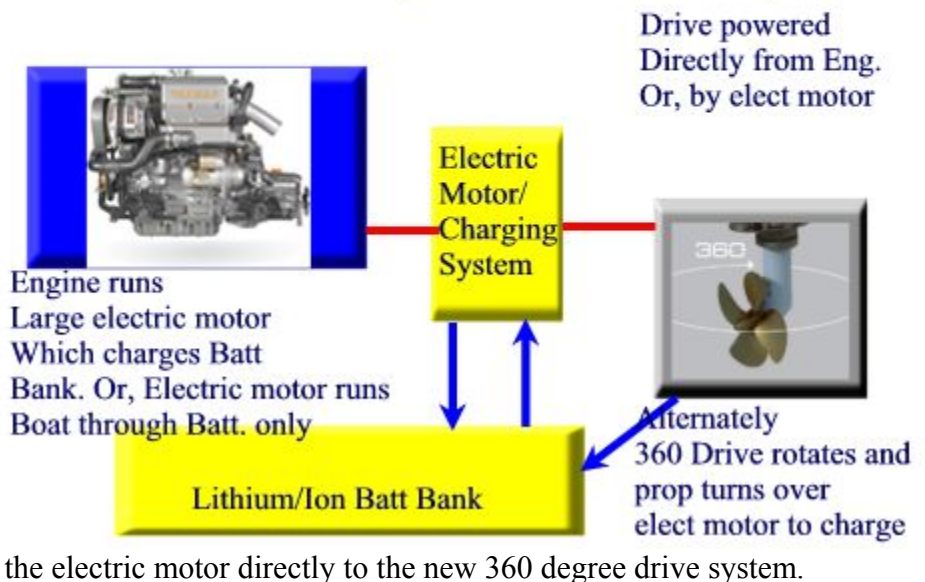
Preliminary information.

Jeanneau 53/57 360 Drive w/Hybrid Power System

This system is not like anything offered before in the sailboat industry. It has nothing to do with past Hybrid systems and the Jeanneau team has spent over 20 million Euros on R&D for this project.

Description.

This system is based on the standard, 110 or 130 HP diesel which can always be used as the standard power, however, its shaft goes through the electric motor directly to the new 360 degree drive system.



Everything is computer controlled so you can now run the boat from the normal diesel engine or the electric motor. The Lithium/Ion Battery bank is not subject to the failures of the older Lead-Acid battery systems. They can stand the rigors of full discharge, and fast, high amperage charging. These new technology batteries are now in such general use that the price has now made them practical.

By turning the drive 180 degrees, the prop can now charge the battery bank with about 60% greater efficiency while sailing (Compared to old systems that just trailed the prop after the strut), and because these batteries can accept a very high rate of charge (over 300 amps) compared to lead/acid batteries, the engine can now also charge the batteries using the highly efficient motor, which also serves as an alternator.



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What does this all mean?

It means that the bow thruster, drive system and auto-pilot accompanied by the hybrid electric system manage the power and control of the boat through the joystick controller.



You don't need a separate generator, extra batteries or inverter—all are combined in this system and the extra weight of the batteries is about the same as the weight eliminated.

You can run the A/C off the included, large capacity inverter, for up to 6 hours—and then recharge off the drive while sailing (in a little over an hour!), or the diesel engine when motoring (Or, shore power, when available.)

The power distribution is all handled by the system with take off for a 500 volt output to power the inverter, or chargers for 12 V. (start and house batteries) or 24 volt high load equipment (Windlass, powered winches, etc.)

For more information and a video on the 360 degree drive system please go here:

http://www.bayacht.com/aaa/jeanneau/Jeanneau_360_Docking.pdf See [Video on 360 docking doc.](#)

For details and more information, call us at the numbers in this paper.

