



This parallel hybrid system can be fitted to a vessel during its initial construction. The hybrid system does not disturb the normal shaft / propeller connection to the diesel, instead as the name implies it connects to the shaft in parallel with the standard diesel engine. Hybrid systems have the most to offer inefficiency improvements during low to mid power cruising

and our system makes the best use of this basic principle. The standard diesel engine is sized to provide the maximum power requirement for the vessel, while the electric drive is designed to match the boats mid range power needs. This allows the electric drive components to be smaller and provides a very cost effective hybrid solution.

Example Hybrid Package

Base engine - Shire 40 / 46 / 50
Hybrid system providing 10kW drive and 5kW generation
48V, 3kW alternator boost package
Battery bank = 24 wet traction cells, 48V @400Ah
Battery auto watering and venting system
Battery monitor
3kW (6kW peak) charger/inverter
Cross charger for single 12V buffer battery

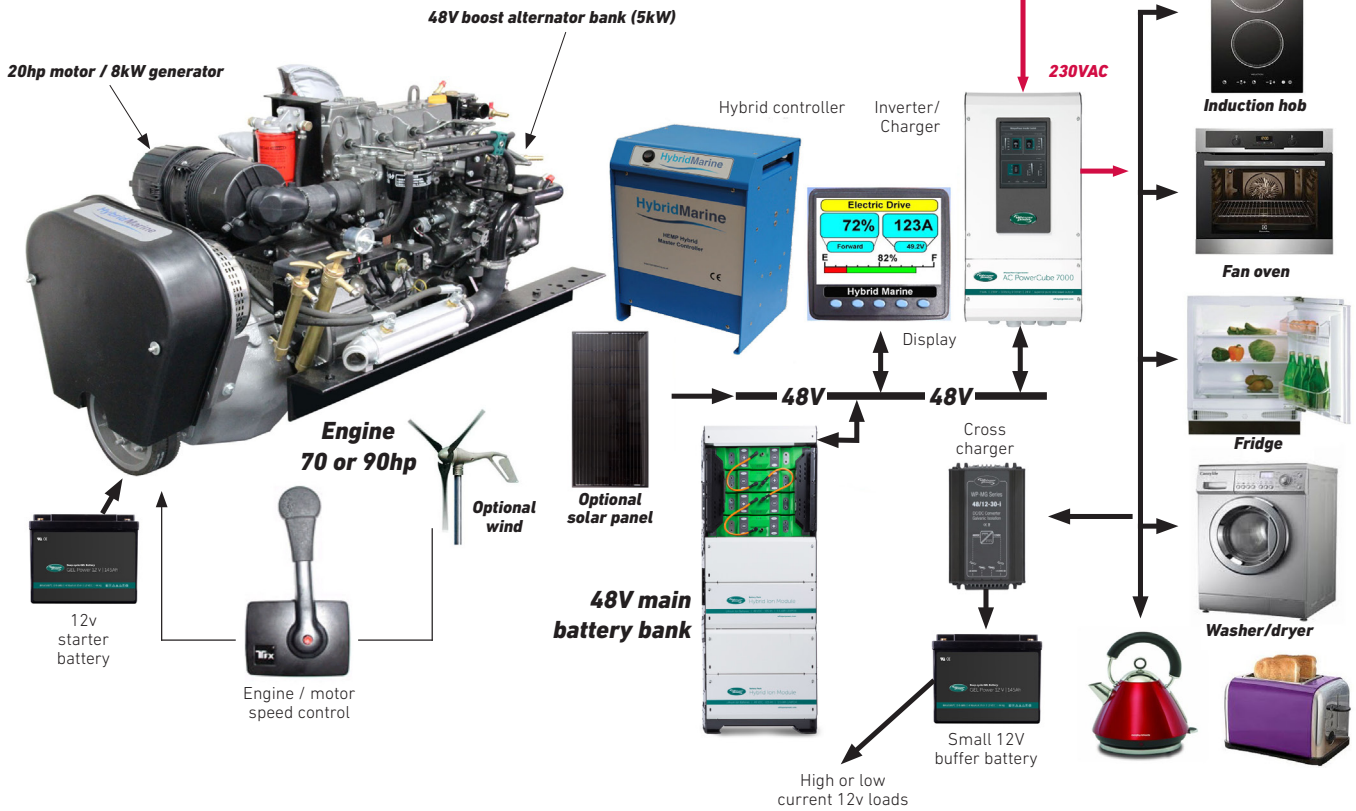
NOTE: Full hybrid system providing 10kW electric drive (4 - 6 hour duration) plus 7 to 8kW generation capability at cruising speeds for a craft using gas for cooking

Example Enhanced Hybrid Package

Base engine - Shire 40 / 46 / 50
Hybrid system providing 10kW drive and 5kW generation
48V, 3kW alternator boost package
Battery bank = 24 wet traction cells, 48V @400Ah
Battery auto watering and venting system
Battery monitor
5kW (10kW peak) charger/inverter
Cross charger for single 12V buffer battery

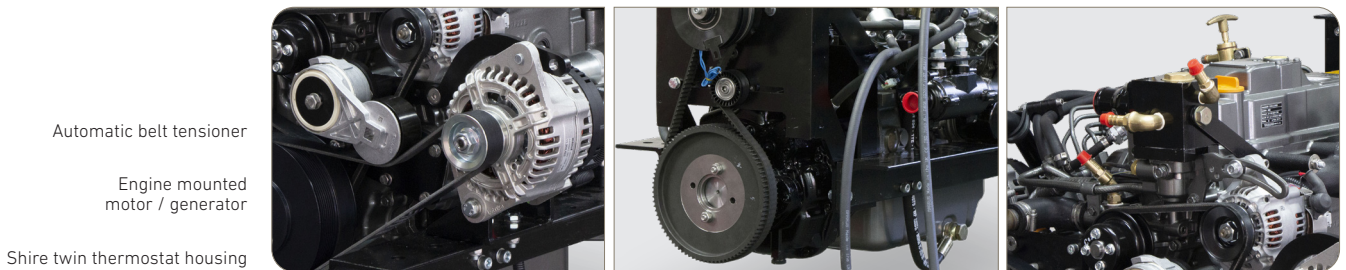
NOTE: As standard system with double the battery capacity giving 8 - 12 hour electric drive duration. Larger inverter (5kW / 10kW peak) allowing all electric boat (cooking with electric)

Example 20kW Hybrid System



Standard Features and function

- Whisper quiet electric operation yet the vessels standard diesel engine remains available to meet high end power requirements
- No more idling in locks, and actually hear your crew from the bottom of the lock
- Power your entire boat with the onboard hybrid generator and battery bank. No more charging in the evening to top up 12V batteries.
- Run a powerful ring main via an inverter from the large battery bank. Cook electric in complete silence and eliminate gas onboard.
- Significant reduction in fuel consumption and engine hours.



Automatic belt tensioner

Engine mounted motor / generator

Shire twin thermostat housing



The Power Behind The Brands

Specifications and/or prices are subject to change without notice. Every effort is made to produce sales literature and price lists that are accurate and current.

Shire - Engineered and manufactured in the UK by Barrus
 E. P. Barrus Ltd., Glen Way, Launton Road, Bicester, Oxfordshire, OX26 4UR
 Tel: 01869 363636 www.barrus.co.uk

