



Quiet. Zero emissions. Stylish.

Eco Boats Australia.

The green alternative in boating.



Lidgard Racing Yacht with 7.5kW AC inboard

'Juana' is a racing yacht designed by Garry Lidgard to meet the Eight Metre Class Rule with a modern under body and 1930's classic lines above the waterline.

The overall length of Juana is 14.5m on a LWL of 9.3m, and a displacement of 8.2 tonnes.

Juana's hull and deck are a timber/fibre-glass hybrid, with solid timber, closely spaced epoxy-laminated, Celery-top pine frames and decks, that were then strip planked with Huon pine.



Replaced: 24HP diesel motor

This racing yacht is currently being re-powered with a Mastervolt-Bellmann 7.5kW electric inboard motor with the equivalent performance of a 22HP diesel motor. The brushless, Asynchronous motor delivers high torque, is virtually maintenance free and exceptionally quiet. The digital display gives all-important information such as battery condition, remaining running time and the power consumption in kW.



48V AC electric inboard motor



Juana in Woolwich Dock, Sydney



Test set-up prior to installation



LiFePo4 batteries

The electric boat motor is powered by a 48V / 270Ah battery bank consisting of 6 top quality 'Lithium Iron Phosphate' (LiFePo4) batteries with in-built battery management system. At cruising speed the battery bank will provide approx. 3 hours running time.

An onboard 3-stage charger will recharge the Lithium batteries when the boat is plugged into shore power. The electric motor reduces the impact on its environment and provides the same quiet experience under power as when under sail.



'Juana' Eight Metre Class racing yacht with electric boat motor



For more information on electric propulsion visit:

www.ecoboats.com.au

Batteries provided by: www.lithbattoz.com.au

Motor installation by: Itchy & Scratchy Boat Building, Sydney