

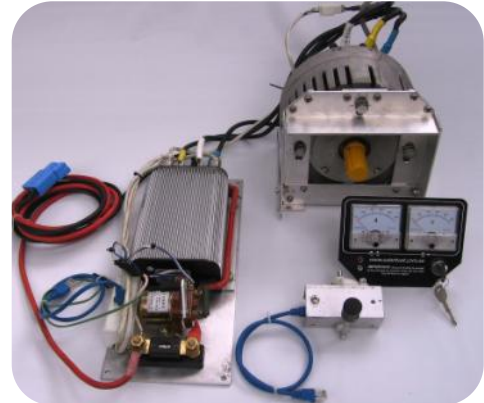


EcoDrive

Electric inboard drive systems

2.2 / 3.2 / 4.3kW Continuous power
Equivalent thrust to 6 / 9 / 12 HP*
24 / 36 / 48V System
Permanent magnet synchronous motor
Low RPM, high thrust
Compact, lightweight and powerful
Easy to install
Virtually maintenance free

*(*In displacement type craft)*



base kit configuration

Compact & powerful

This powerful, yet very compact and lightweight drive system is easy to install and comes as a complete 'plug & play' kit. Unlike a diesel engine, an electric motor provides full torque at any RPM, which is ideal when maneuvering or accelerating. No warm-up is necessary and maximum power is available instantly at the flick of a switch. EcoDrive systems combine efficiency and power in a budget package .

Reliable and economical to run

With brushless technology and only one moving part the motor is extremely reliable and almost maintenance free. No more ongoing costs for diesel/petrol or expensive repairs on the motor. Recharge from shore power for less than a dollar or rely on solar and/or wind energy to keep your batteries topped up.

Easy to install

The EcoDrive kit is compact and low weight. It can be installed without the need for heavy tools and is easy to align. Set up as direct drive or with a reduction gear it offers flexibility of installation. In most instances the existing sterngear (shaft & propeller) can be utilised.

Performance and range

The EcoDrive range is suitable for displacement style craft (sailboats, classic boats) and multihulls. It is not suitable for planing vessels such as speedboats. Running time depends on the size of the battery bank and your performance & range requirements. Generally, the aim is to install a battery bank that allows 6 to 8 hours for motor boats or 2 to 4 hours for sailboats at cruising speed. A displacement style boat is most efficiently driven up to 65% of the boat's 'hull speed'. For most recreational boats between 15-30' in length this translates to approx 4 knots cruising speed and approx 6 knots top speed. Multihulls can achieve higher speeds.

Batteries and charging

For displacement style craft, lead acid batteries work well. Their weight adds to the boat's stability and they can be placed in an area where ballast is needed (eg in the bilge or close to the keel). For multihulled craft, where weight may be an issue, lithium batteries could be more suitable in some instances. An added benefit from lithium batteries is that they have a longer life span, and don't mind to be charged slowly, eg via solar panels. When a boat has access to mains power (eg kept on trailer or at marina) the use of an on-board smart-charger is the most convenient way of charging. When kept on the water (eg swing mooring or when cruising) a combination of solar panels, wind turbine or generator can be used to charge the batteries.



EcoDrive

Electric inboard drive systems

Technical specifications:

Model	Power rating	Voltage	Reduction gear	Shaft RPM (no load)	Torque (peak stall)	For boat length / weight	Battery capacity for 3 - 7 hrs
EcoDrive 2.2	2.2kW / 6HP	24V	n.a. (direct drive)	1300	14 N.m 55 N.m	up to 5m up to 1000kg	5-10kW/hr
EcoDrive 3.2	3.2kW / 9HP	36V	1,5 : 1 (toothed belt)	1300	21 N.m 82 N.m	5m - 7.5m 1000-2500kg	7-14kW/hr
EcoDrive 4.3	4.3kW / 12HP	48V	2 : 1 (toothed belt)	1300	28 N.m 110N.m	7.5 - 10m 2500-4000kg	10-20kW/hr

Note: HP rating comparable to diesel inboard (thrust) on displacement craft only. Boat size and battery capacity to be used as guide only.

EcoDrive base kit configuration (items included in all kits):



electric boat motor & cables



motor controller with fuse & wire loom



key switch & instrument panel; motor power & battery status



throttle: fwd/neutral /rev

Accessories (inclusions depend on configuration, see price list):



motor mounting bracket



shaft coupling (for direct drive)



(reduction) gear



(thrust) bearing



circuit breaker & main switch

Batteries & charging:



deep cycle AGM batteries



cables w/lugs made to size



battery charger



DC-DC converter



battery monitor



flexible marine solar panels

