



DuoGen

a new generation
for on-board power

DuoGen is a wind generator and a water generator in one machine. Use wind mode when in harbour, then switch to water mode as you sail.

DuoGen is purpose designed to provide a truly practical solution to generating power on cruising yachts. Most of the system's weight is at deck level, and mode change is accomplished in seconds without the use of tools.

Redundant system components, i.e. the air turbine in water mode and water turbine in air mode, are designed to disassemble or are very compact, so stowage is no problem whatsoever.

Both modes are easily deployed and recovered within seconds without the need to demount and reposition the alternator, electrical connections or major system elements.

Dual mode capability provides for greater energy conversion potential than is possible with any stand-alone system and energy production is maximised when you need it most, that is, when you are using your boat and consuming energy.



Deploy **DuoGen** in water mode before you depart, then forget about it.

By gathering power from the yacht's movement through the water, you maximise energy production when you need it most.

DuoGen runs all your on-board equipment while you enjoy sailing.

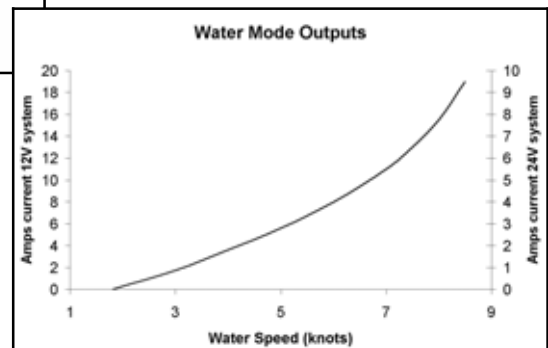
DuoGen starts charging at under 2 knots, produces a steady 8 amps at 6 knots, and 11 amps at 7 knots.

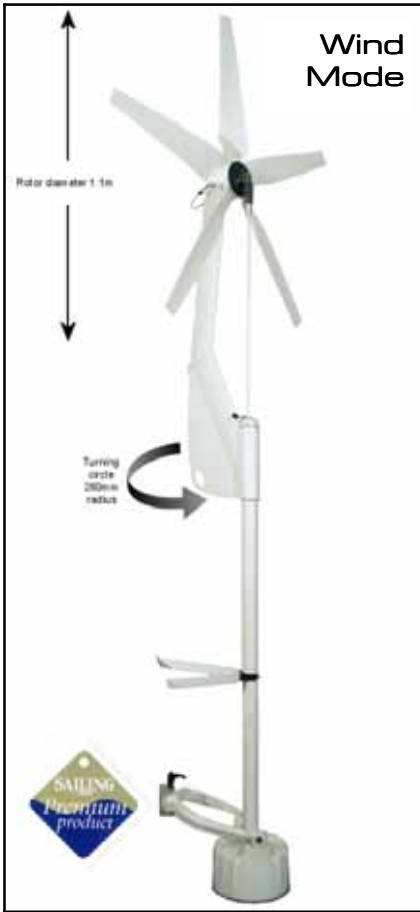
DuoGen runs silently, following the movements of the yacht.

Drag is low with boat speed losses typically less than 0.15 of a knot at 6 knots.

Regulation

To prevent overcharging, we recommend that a regulator is installed between DuoGen and the batteries. We supply a 'dump' type regulator which is mounted close to the batteries. The regulator incorporates a charge splitter for charging two independent battery banks simultaneously, and will also accept the input from solar panels.



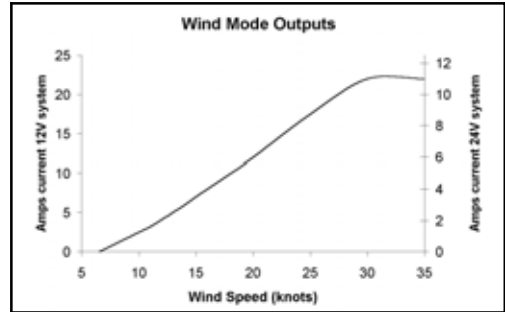


When you anchor or moor up, **DuoGen**'s water mode is as easy to recover as it is to deploy. To change modes simply lower the tower, remove the water impeller unit, and attach the wind turbine.

Raise and secure the tower, then **DuoGen** is ready to go on charging your batteries directly from the wind.

It is quiet and non-threatening, and can safely be stopped by taking the handle at the bottom of the yaw tower and turning the rotor out of the wind.

Whether on a day's sail across the bay, or a Pacific crossing, **DuoGen** helps you manage your battery power and keep electrical and electronic equipment working.



Which size DuoGen is right for my yacht?

This depends on the length of the hull and, more critically, the freeboard at the stern. Generally:

The Short tower is suitable for yachts from 7 - 10 metres

The Long tower suits yachts from 8 - 15 metres

The Extra Long tower is for yachts over 15 metres.



Installation

Together with an appropriate mounting kit, installing **DuoGen** is usually simple and straightforward.

The Universal Mount kit includes a polished stainless steel bracket which is fully adjustable and facilitates the **DuoGen** installation. The mounting kit also includes a powder-coated yoke, a strut, and all the stainless steel fittings etc that you need to achieve a sturdy installation.

DuoGen has been successfully installed on all manner of yachts, including multihulls. Send us a photograph of your yacht's stern together with her freeboard measurement, and we will be happy to advise you on mounting options.



DuoGen
is available in
12 Volt and
24 Volt

For sales and enquiries, contact: