

SAIL-GEN LITE

The Dedicated Water Generator

Producing electricity on passage is major consideration for the cruising yachtsman. With on-board refrigeration, autopilot, radar and other electrical equipment, power consumption when under way can be 200 amp-hours per day or more.

The Sail-Gen Lite generates electricity as you sail and is easily capable of matching or exceeding the average yacht's power requirements.



The Sail-Gen Lite comprises a rigid welded aluminium frame with a carbon fibre drive shaft and cast alloy alternator housing and water impeller. The Sail-Gen Lite is easy to install, compact in size and reliable and efficient in operation.



The Sail-Gen generates approximately 230 amp-hours per day at 6 knots, rising to 500 amp-hours at 8 knots.

The Sail-Gen utilises Eclectic Energy's proven 'dive plane' technology, which controls the impeller operating depth and adjusts for the sea state.

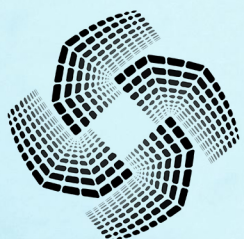
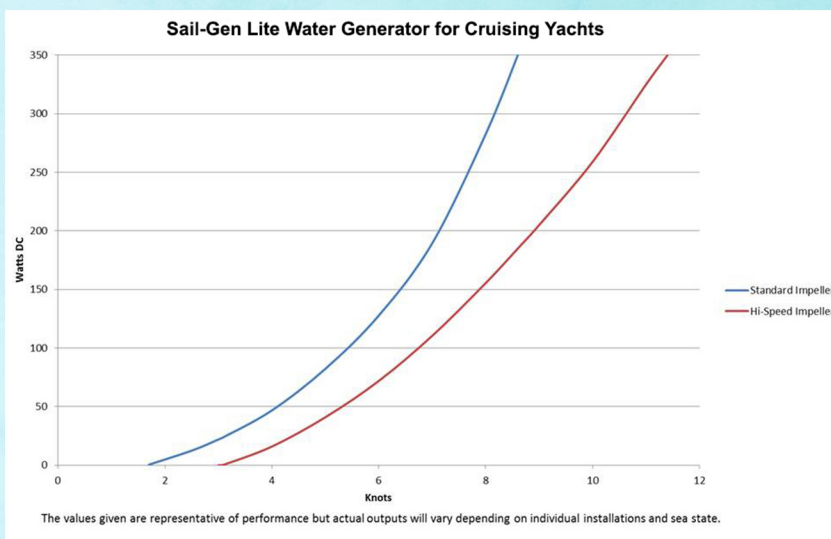
Low drag design results in minimal loss of boat speed.

The Sail-Gen features an active dive plane making deployment and recovery easier and safer.

Robust corrosion resistant construction throughout, with no vulnerable gearbox or submerged electrical parts as found in other water generators.

High-speed water impeller option for performance yachts & multi-hulls.

Flexible mount options available.



ECLECTIC ENERGY

For sales and enquiries contact:

Eclectic Energy Ltd

**Unit 22 Sherwood Network Centre
Sherwood Energy Village, Ollerton
Nottinghamshire, NG22 9FD
United Kingdom**

Tel: +44 (0)1623 835400

sales@eclectic-energy.co.uk

<https://eclectic-energy.co.uk>



SAIL-GEN LITE

PRODUCT SPECIFICATION

Performance and Power outputs	At 6 knots boat speed	125 W	
	At 8 knots boat speed	280 W	
	Daily yield at 7 knots	350 amp hours @12 V	
	Maximum Rotational speed	approximately 1100 RPM	
	Cut-in Boat Speed	Standard impeller 1.7 knots High speed impeller 3.1 knots	
Water impeller	Standard for 0 – 9 knots	290 mm diameter	
	High speed for 0– 15 knots	240 mm diameter	
	Material	LM6 alloy casting, hard anodised & powder-coated	
Dive plane	Adjustable trim	Minus 10° to plus 20°	
	Active Recovery	Actuated by recovery lanyard	
	Material	Aluminium, anodised and powder-coated	
	Drag	<15 kg @ 6 knots	
Drive shaft	Telescopic	GRP and carbon fibre	
Vectored drive	Eclectic pin drive	Robust and reliable – user serviceable	
Dimensions	Overall length	1690 mm	
	Maximum width	335 mm	
	Weight	13.7 kg	
	Weight including mounting	16.3 kg	
Mounting	Type	Yoke gimbal	
	Movement	Vertical / horizontal	
	Materials		LM6 alloy, powder-coated
			Aluminium, hard anodised
			Stainless steel
	Alternator pivot point	500 mm above static water line	
	Installation position	Recommended within 500 mm of the yacht's centre line	
Bracket height on yacht	400 mm or 540 mm Reversible alternator yoke		
Alternator features	Alternator type	Direct drive, axial field	
		12 pole permanent magnet generator	
	Design	3-phase AC with rectification	
		Outputs direct current (DC)	
		Rare earth annular magnet rotors	
		Encapsulated stator windings	
	Voltages available	12 V, 24 V	
	Materials	Aluminium alloy housing, fully sealed	
Alocrom 1200 corrosion protection and polyester powder-coated			
	316 stainless steel shafts, A4 stainless fasteners		
Electromagnetic emissions	C.E. compliant		
Finish	Colour, white		