

D400

Wind Generator

The D400 is a direct-drive wind generator, designed for a variety of marine or terrestrial applications. It is exceptionally quiet and vibration-free in operation, qualities that are of major importance for any wind generator operating in close proximity to people.

The D400 features a powerful 3-phase alternator, and computer-designed rotor blades optimised for low speed, user-friendly operation.

This innovative machine is extremely efficient in low wind speeds, yet is capable of sustained high power outputs of over 500 watts in higher winds. Distinctive and elegant in design, the D400 is superbly engineered for long, trouble-free service.



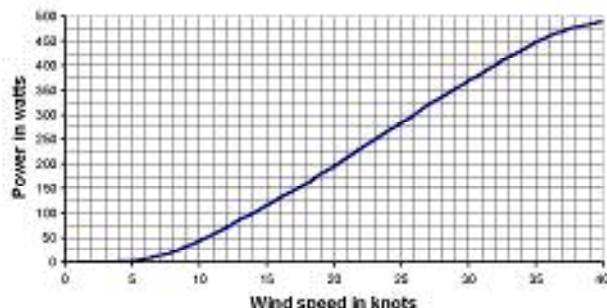
D400

- ▶ Rated output 400 W at 32knots (16 m/s)
- ▶ Available in 12 or 24 volt
- ▶ Rotor - 1.1 m. diameter
- ▶ Turning circle - 585 mm
- ▶ Weight 15 kilograms

Features of the D400:

- ▶ Specifically designed for installation on boats, and on or near buildings, caravans etc.
- ▶ Almost silent in operation
- ▶ Smooth running with optional integral anti-vibration mount
- ▶ Unparalleled low wind speed performance
- ▶ Low tip speed ratio, 1.1 metre diameter rotor
- ▶ Advanced variable camber airfoil blades
- ▶ Robustly engineered for long trouble-free service
- ▶ Highly efficient, low-speed, 3-phase axial field permanent magnet alternator
- ▶ Excellent heat dissipation with heavy duty encapsulated windings for sustained high output operation
- ▶ Aesthetically attractive design
- ▶ Corrosion-resistant materials used throughout
- ▶ Mounting tower 2" O/D tubing

D400 Wind Generator Output



D400.co.uk

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D400 Wind Turbine Specifications

Output	Rated Power (W)	400
	Max. power (W)	500 +
	Rated Wind Speed (m/s)	16.5
	Rated rotational speed (RPM)	1200
	Cut-in wind speed (m/s)	2.6
	Cut-out wind speed	none
Turbine	Turbine type	Horizontal upwind
	Number of blades	5
	Airfoil type	Low Reynolds - variable camber
	Diameter of turbine (m.)	1.1
	Swept area (sq. m.)	0.95
	Tip speed ratio	4
	Typical noise level	2 - 6 dbA over background
	Blade material	Glass-filled nylon
Alternator	Design	Direct Drive
		12 pole PMG
		3-phase AC
		Output DC
		High energy ferrite magnets
		Encapsulated stator
	Voltages available	12, 24, 48, 150 DC
	Materials	Alloy housing, hermetically sealed
		Alachrome and polyester powder coat
		316 S/S shafts
	EMI (electromagnetic emissions)	C.E. compliant
	Control system	Stall regulation
Brake system	Braking Switch	
Yaw System	Passive	Low resonance, formed aluminium tail
		Slip ring assembly with saddle spring loaded output brushes
Mounting	Stub tower	50mm O/D - 42mm I/D
Weight	Total	15 kg.
Finish	Colours available	White with white blades
		Black with translucent blades