

D400 Wind Generator

The D400 is a direct-drive wind generator, designed for a variety of marine and terrestrial applications. It is exceptionally quiet and vibration-free in operation.

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 power outputs of over 500 watts in higher winds. Distinctive and elegant in design, the D400 is superbly engineered for long, trouble-free service.

Features of the D400:

- ★ Ideal for mounting on buildings or boats
- ★ Virtually silent and vibration free in operation
- ★ Highly efficient and productive at all wind speeds
- ★ Low maintenance 'fit and forget' engineering
- ★ Attractive, visually pleasing design
- ★ Robustly constructed for a long service life
- ★ Corrosion-resistant materials used throughout
- ★ Flexible mount tower options
- ★ Available in black or white

- ★ Rated output:
 - 235W at 11 m/s (22 kts.)
 - 420W at 14 m/s (28 kts.)
- ★ 12,24,48 volt available
- ★ Rotor 1.1m. diameter
- ★ Turning circle 700mm
- ★ Weight 17 kg



All performance figures are indicative. Actual outputs may vary. E&OE

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D400 Wind Turbine Specifications

Performance & Power outputs	Rated power	235 W @ 11 m/s (22 knots), 420 W @ 14 m/s (28 knots)
	Maximum power	600 + W
	Rotational speed	1100 rpm @ 14 m/s
	Cut-in speed	2.5 m/s (5 knots)
	Cut-out wind speed	None
Turbine features	Turbine type	Horizontal axis upwind
	Number of blades	5
	Airfoil type	Low Reynolds – variable camber
	Diameter of turbine	1.1 m
	Swept area	0.95 sq. m
	Tip speed ratio	4
	Typical noise level	2 – 6 dbA over background
	Blade material	Glass-filled nylon
Alternator features	Alternator type	Direct drive – axial field
		12 pole permanent magnet generator
	Design	3-phase AC with rectification
		Outputs direct current (DC)
		Annular high energy magnet rotors
		Encapsulated stator windings
	Voltages available	DC: 12 V, 24 V, 48 V, 72 V
		AC: 240 V grid connect via inverter
	Materials	Aluminium alloy housing, hermetically sealed
		Alocrom 1200 corrosion protection and polyester powder coat
		316 stainless steel shafts and A4 stainless fasteners
	EMI (electromagnetic emissions)	C.E. Compliant
	Control system	Stall regulation
	Brake system	Electromagnetic braking switch
Yaw system	Passive	Low resonance, formed aluminium tail
		Heavy duty slip ring assembly with saddle spring loaded output brushes
	Turning circle	700 mm
Mounting	Typical stub tower	50 mm – 75 mm O/D
Weight	Total	17 kg
Finish	Colours available	White with white blades
		Black with translucent blades



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