



# Oic-400s single phase wind turbine generator

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single phase wind turbine generators are the perfect renewable energy solution capable of generating wind energy and turning it into electricity through innovative aerodynamic forces produced by rotor blades. Alibaba has a wide selection of wind turbines of various sizes and capacities that can be used to generate sustainable wind power.

You can find single phase wind turbine generators with either vertical or horizontal axes that can be used for a variety of applications, from wind turbines for home to wind power generators for wind farms. Source the wind turbine system that works for you.

If you are looking to build a DIY wind turbine for your home or to purchase parts, you can choose from a range of components and accessories that are also available, including vibrations motors, programmable vibration motors, volt and ultrasonic vibration motors, blades, and stepper motors.

There are also small wind turbines that can be used for applications that include battery charging for traffic warning signs, as well as boat and caravan power. You also have a choice of blade and bladeless options. The bladeless designs generate energy from vibrations alone. Are you looking to source wholesale single phase wind turbine generators for your business? Shop from the vast selection from Alibaba and take advantage of great deals.

The D400 has been developed specifically to operate in close proximity to people. The noise and vibration usually associated with small wind turbines has been designed out of the D400. This has been achieved by making the turbine run relatively slowly for a given electrical output. In a given wind speed and a given electrical output, the D400 rotates at less than one quarter the speed of some competitor units. Combined with its rugged engineering and advanced computer-designed air blades, this makes the D400 the most reliable and benign turbine of its class currently available.

The air blades are precision injection-moulded from glass reinforced nylon and as well as featuring taper and twist incorporate a special low-Reynolds airfoil section which varies continually in camber from tip to root. Because of the production method used, the blades are extremely consistent in terms of mass and can be replaced singly should damage occur without losing turbine balance. The alternator and yaw shafts are precision-ground from 316 grade stainless steel, and the D400's body is a robust aluminium alloy casting.

The bearings are high quality and generously sized, and are protected by twin-lipped radial shaft seals. The tail is formed from aluminium sheet into a shallow "S" section in order to impart stiffness and prevent resonance. All aluminium parts are etched, alachromed and finished in a tough polyester powder coat.



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The D400 utilises a 12-pole, 3-phase axial field alternator of very high efficiency. It comprises two large annular magnet rotors with stator coils positioned in between. The stator coils themselves are wound from heavy gauge copper and are encapsulated in a heat-conductive resin. This in turn is bolted to a machined shelf within the aluminium housing, so ensuring excellent heat dissipation from the machine.

Unlike typical wind generator alternators Eclectics Design is ironless which means that the alternator rotates completely freely without the cogging associated with conventional radial configurations. This means that when operating D400 is virtually vibration free and no mechanical noise is transmitted to the yachts cabin.

As D400 is a low voltage system it can be installed by an owner. Alternatively a marine electrician or other suitable contractor can be engaged. Mount towers can be fabricated or proprietary tower products can be purchased. Please refer to the links below:

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