



# 12 volt wind turbines

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The Air-X is a 400 watt wind turbine capable of charging any size battery even in harsh or gusty environments. e Marine offers the turbine alone or packaged with some of our hottest selling options including our e10 wind turbine control panel and mounting kits.

The AIR-X builds upon what made AIR the world's #1 selling small wind turbine with new technology previously found only in today's state-of-the-art mega-watt-class wind turbines.

The microprocessor based speed control results in increased performance, improved battery charging capability and the reduction of "flutter" noise from the machine. The controller allows for peak-power tracking of the wind by optimizing the alternator's output on all points of the cubic curve and then efficiently delivers the energy to the battery. It actually controls blade rotation speed thus eliminating the buzzing noise commonly found with the AIR 403 and 303 in high winds. A new series of carbon-reinforced blades with a modified pitch angle further increases power production.

**Much Lower Noise:** AIR-X's circuit monitors the wind speed and electronically slows the blades as it reaches its rated output preventing it from going into flutter. This results in a much quieter wind turbine. In high winds, the AIR-X will continue to produce power at a reduced level until the wind decreases, at which point maximum output will resume.

**Lower stress design:** AIR-X limits power on the input side of the electronics by controlling the torque from the blades. The power no longer has to be dissipated by the electronics resulting in lower stress on the circuit, bearings and other materials. Furthermore, stress on wind turbines occurs primarily in high winds. Under these conditions, the electronic stall design reduces the speed to 600 rpm, thereby significantly reducing turbine and tower loading.

e Marine strives to minimize the pain of installation. Installation involves not just the wind generator but the need for a mast, wiring, fusing and other critical but necessary items which may not easily be found and backup on board spare parts. We offer a variety of kits and auxiliary components for one-stop shopping on your wind generator project.

The Air Breeze is a powerful energy producer in light to moderate winds. The internal built-in regulator microprocessor now has an improved charging algorithm generating even more power than ever in light winds. (40kW-Hrs/month @ 12 mph). Design enhancements with her circuit boards and mechanics combined with a high-tech paint finish allows the product to be offered with a limited 3 year warranty.

AIR Breeze is trusted by sailors around the world and recommended as the best high energy output turbine by Yachting Monthly. Its optimized electronic controls deliver energy quietly and efficiently. Extensive third



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party testing and certification shows more consistent output than the competition. AIR Breeze is part of the latest generation of AIR products--the world's best-selling wind turbines--with more than 135,000 units sold in more than 120 countries.

We recommend AIR Breeze for all small battery-charging applications in coastal areas or offshore: boats, docks and other marine uses. The AIR Breeze is an ideal wind turbine for hybrid systems with solar to offset those cloudy or stormy periods. AIR Breeze is built and backed by the worldwide leader in small wind.

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