



Wind generator yacht

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Sailboat wind generators are a way to capture the energy of the wind and use it to charge your batteries and power electronics aboard your vessel.

A large part of the appeal of living on a sailboat, for many people, is being more or less self-sufficient - using the wind for propulsion, and the elements to generate all the power you need.

Solar panels are a wonderful technology, literally magic, but the sun doesn't shine every day. In fact, of the most popular cruising grounds in the world aren't even that sunny. It rains three to four days a week in Barbados or Antigua, for example (don't even get us started on the English Channel).

And what about night sailing - keeping critical loads like autopilots and instruments online after the sun goes down?

A marine wind generator fills in those vital gaps in the energy picture, and eliminates the need to generate or run the engines to keep your electronics online.

In this expert guide we take a deep dive into sailboat wind generators, covering everything you need to know - from how they work through to the very latest technological advances.

With thousands and thousands of miles under the keel, we have lived off-grid using technologies just like this for almost a decade now. We've rewired more boats than anyone should ever have to. We're marine electronics nerds, basically, and specifically very passionate about renewables like wind and solar.

That's why we couldn't wait to write about this topic, and why you've got a good 4000 words on it! Sorry about that! But feel free to skip and just read the information you're interested in, we don't blame you!

So, let's take a close look at sailboat wind generators, how they work, what makes a good one, the best sailboat wind generators that we think deserve a place on your next nautical expedition.

If you are in the US, the choice for the best budget marine wind generator is easy - it's this guy, the Nature Power 500, which West Marine have sold for donkey's years with eternally solid reviews.

It's a 500-watt turbine that is natively compatible with both 12V and 24VDC systems. It's made from marine-grade aluminium that's also coated in a thick, durable coating to help it withstand years at sea.

This wind generator is rated for winds up to 110mph - well into hurricane territory - and it comes as a



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complete kit including a charge controller using the latest MPPT technology. The controller even has an electronic brake, even though it's a manual one.

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