



# 500w vertical axis wind turbine

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The 500 watt vertical axis wind turbine for home, which is highly efficient, environmentally friendly and easy to install, comes with a rated voltage of 12V, 24V or 48V. The vertical wind turbine's control system automatically adjusts the attitude of the blades to maximise the use of the wind and increase power production.

The battery is charged by the wind turbine and solar panels through the controller, and the DC output port of the controller directly supplies power to the DC load. On days without wind or light, the power output by the wind turbine and solar panels is not enough to charge the battery, which can cause the battery to be under-voltage. In this case, the controller output dry contact control signal automatically switches to the grid power to supply the load.

**Tips:**How efficient are vertical wind turbines?

Vertical wind turbines can be effective for small scale energy generation or for specific applications, such as powering lights or water pumps in remote areas. They have the advantage of having a compact design, making them suitable for installations in limited spaces.

The effectiveness of vertical wind turbines depends on the circumstances and design factors. They can be used effectively for small-scale energy generation in limited spaces, but they tend to be less energy efficient than horizontal wind turbines.

### Vertical Axis Wind Turbine Generator VAWT EN-500W-Q4

The EN-500W-Q4 is designed on a unique low inertia axial flux generator which utilizes Neodymium permanent magnetic material.

The EN-500W-Q4 has zero cogging with its highly efficient, allow the turbine to generate power at very low wind speeds and deliver a high output in working wind speeds.

The EN-500W-Q4 can survive from winds up to 40m/s by a passive aero-dynamic design that reduces turbine RPM and power

output at a certain threshold.

The robust aluminum alloy chassis and stainless steel components are protected by the aerospace grade coatings and anodizing.

The EN-500W-Q4 wind turbine is widely used in LED light, street signal & camera security, outdoor



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telecommunication system and off-grid residence.

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