



# 10 watt wind turbine

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The new Bergey Excel 10 is ideal for large homes, farms, and small businesses. Its extra large rotor and ultra low cut-in wind speed give it exceptional performance, out producing all other turbines in its class. 2 models : 48 VDC (Battery charging model) or 230 VAC (Grid-inertie model).

o BW-7 Proprietary Low Noise Airfoil Powerflex Super High-Strength Blades o Neo-10 Direct-Drive Permanent Magnet Alternator o AutoFurl Storm Protection o 12kW Powersync II Inverter

o TYPE: 3-Blade Upwind, Horizontal Axis o ROTOR DIAMETER: 23 ft. (7.0 m) o WEIGHT: 1200 lb. (545 kg) o GEARBOX: None o OVER SPEED PROTECTION: Autofurl(R) o TEMPERATURE RANGE: -40/140° F (-40/60° C) o TOWERS: Guyed and Non-guyed 80-160 ft. (24-49 m) o ALTERNATOR: 3? Neo Permanent Magneto INVERTER: 12 kW Powersync II

The Normal Operation of the inverter is as follows: When single phase 240VAC is applied to the inverter, the display will power up and a message stating that the unit is initializing is shown. A countdown timer set for 5 minutes (300 seconds) starts before the inverter is ready to transfer power to the utility grid. The inverter will automatically transfer power to the utility when AC voltages in the range of 30VAC to 400VAC are present at the Turbine input.

The following graph represents the power curve of the Triad WindGen. The values are based on actual initial test data. This table will be updated as more data is collected.

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Web: <https://hollanddutchtours.nl/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

