

Wind Turbine and System Specifications

Turbine Type: Bergey BWC Excel-S grid-intertie

Start-up Wind Speed: 7.5 mph

Cut-in Wind Speed: 7 mph

Rated Wind Speed: 31 mph

Rated rotor Speed: 310 RPM

Rated Power: 10 kilowatts (10,000 watts)

Cut-Out Wind Speed: None

Furling Wind Speed: 35 mph

Max. Design Wind Speed: 120 mph

Type: 3 Blade Upwind

Rotor Diameter: 23 feet

Blade Pitch Control: None, Fixed Pitch

Overspeed Protection: AUTOFURL

Gearbox: None, Direct Drive

Temperature Range: -40 to +140 Deg. F

Generator: Permanent Magnet Alternator

Turbine Output Form: 3 Phase AC, Variable Frequency

Inverter Output: 240 VAC, 1Ø, 60 Hz

with GridTek® 10 inverter

Predicted Monthly Energy Production:

240 kWh at 8 mph avg. wind speed,

1370 kWh at 14 mph avg. wind speed

Storage: No batteries, power is either utilized on-site or “net-metering” credit is generated

Warranty: 5 years