

V3.5

Vertical Axis Wind Turbine



CLEANFIELD ENERGY

V3.5 Specifications

OVERALL

Rated Wind Speed . . . 12.5m/s (28mph)
 Survival Wind Speed . 45m/s (100mph)
 Rated RPM 160
 Maximum RPM 190

TURBINE

Overall Height 3.11m (10.2ft)
 Weight 245kg (540lbs)
 Rotor Height 3m (9.84ft)
 Rotor Diameter 2.75m (9.02ft)
 Number of Blades . . . 3
 Blade Composition . . Reinforced Fibreglass
 Number of Spokes . . . 6
 Standard Colour White

GENERATOR

Type 3-phase PMG
 Nominal Voltage 100VAC
 Nominal Current 10A
 Nominal Speed 170 RPM
 Maximum Speed 250 RPM
 Rated Power 3.0kW
 Maximum Power 4.5kW
 Brake (fail-safe) Built-in

CONVERTER/INVERTER*

4 quadrant AC-DC-AC

(with turbine start-up operation)

Line Voltage 240VAC 1Phase
 208VAC 3Phase
 Line Frequency 60Hz/50Hz
 Nominal Power 3.5kW
 Peak Power 5kW

*Certified to: CSA 22.2 No.107.1-01

*Designed to: IEC 61400-2, UL 1741, IEEE 1547

FEATURES:

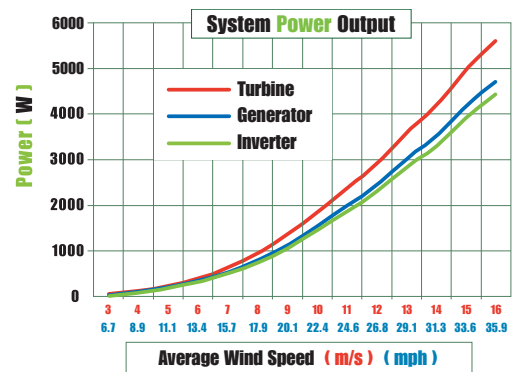
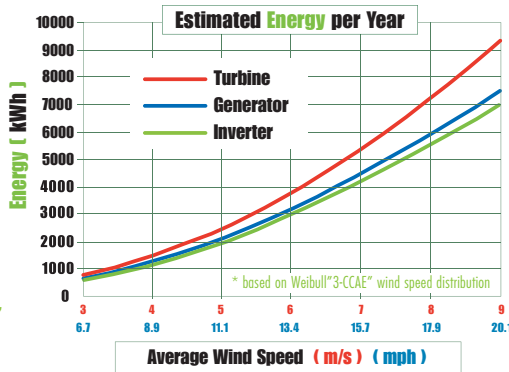
- Operates in Turbulent Wind
- Roof or Ground Mount
- On-Grid Connection
- Integrated System Design
- Low Maintenance
- Quiet



Above left: V3.5 Installation at Virginia Tech University Above right: V3.5 Installation at HIT Hamilton Incubator of Technology, Hamilton, Ontario, Canada



V3.5 Installation at Kenora, Ontario, Canada



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Affiliations

