

3.5 kW  
VAWT



GLOBAL WIND GROUP, INC.

CLEAN ENERGY CLEAR FUTURE

Ph: 204.880.9998 Em: [info@globalwindgroup.com](mailto:info@globalwindgroup.com) Web: [www.globalwindgroup.com](http://www.globalwindgroup.com)

# Specifications

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## OVERALL

Cut-in Wind Speed . . . . 3m/s (6.7mph)  
 Rated Wind Speed . . . . 12.5m/s (28mph)  
 Survival Wind Speed . . . 40m/s (89.5mph)  
 Rated RPM . . . . . 170  
 Maximum RPM . . . . . 200

## TURBINE

Overall Height . . . . . 3.11m (10.2ft)  
 Weight . . . . . 230kg (506lbs)  
 Rotor Height . . . . . 3m (9.84ft)  
 Rotor Diameter . . . . . 2.75m (9.02ft)  
 Number of Blades . . . . 3  
 Blade Composition . . . Reinforced Fibreglass  
 Number of Spokes . . . . 6  
 Standard Color . . . . . White

## GENERATOR

Type . . . . . 3-phase PMG  
 Rated Phase Voltage . . . . 120VAC  
 Rated Phase Current . . . . 10A  
 Rated Speed . . . . . 170 RPM  
 Maximum Speed . . . . . 250 RPM  
 Rated Power . . . . . 3.0kW  
 Maximum Power . . . . . 5kW  
 Brake . . . . . Built-in

## CONVERTER/INVERTER\*

Type . . . . . 4 quadrant AC-DC-AC  
*(with turbine start-up operation)*  
 Rated Voltage . . . . 240VAC 1Phase/208VAC 3Phase  
 Rated Frequency . . . 60Hz/50Hz  
 Rated Power . . . . . 3.5kW  
 Peak Power . . . . . 5kW

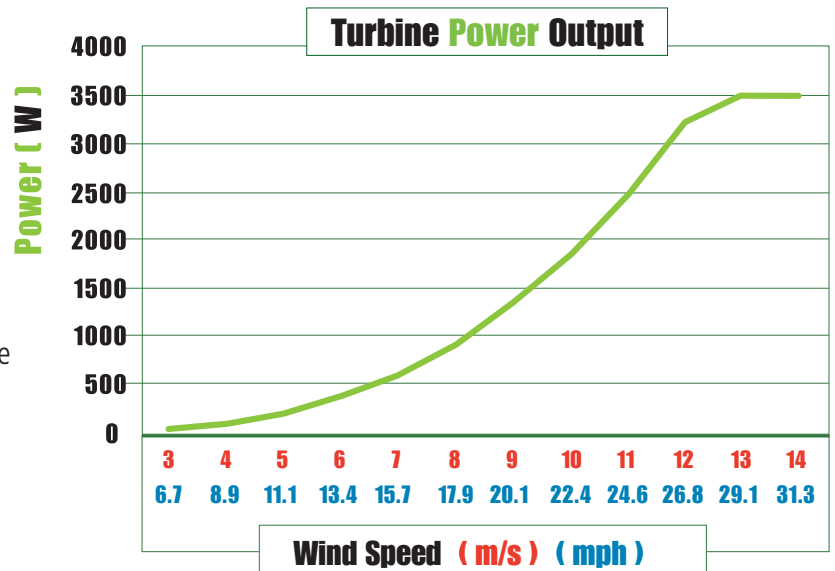
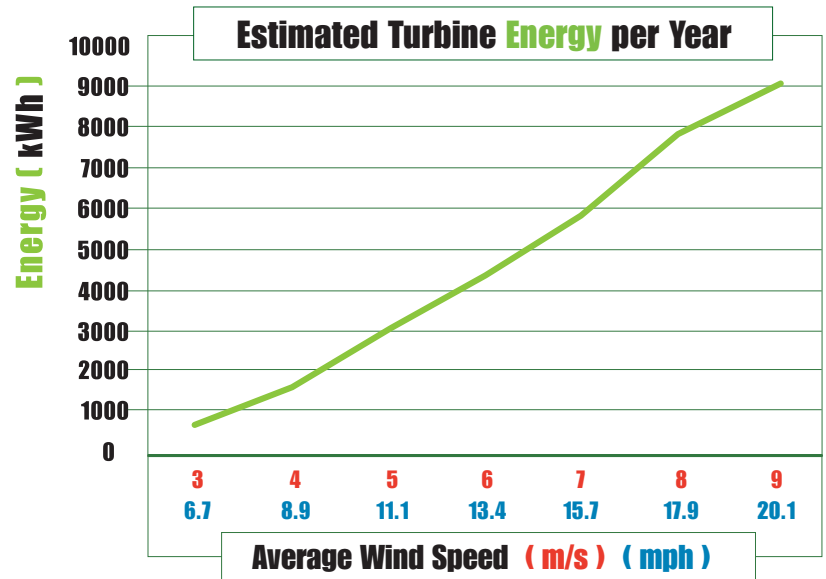
*\*designed to: IEC 61400-2, UL 1741, CSA 22.2 No.107.1-01, IEEE 1547*

## MAJOR FUNCTIONS

- Maximum Efficiency Optimizer – Variable Speed Operation
- Dump-Load Control *(with off grid operation)*
- Grid-Tie and Off-Grid Operation *(optional)*
- PV Connection/Battery Operation *(optional)*
- Dual Brake Control *(Generator Short/Generator Brake)*



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## PROTECTION

- Grid Failure *(for On-Grid Operation only)*
- Anti-Islanding
- Internal Errors