



Technical Documentation

VisionAIR³ Technical Specifications

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VisionAIR³ Wind Turbine Specifications

Physical Information

Axis	Vertical
Height	3.2 m [10'-6"]
Width	1.8 m [5'-11"]
Swept Area	5.76 m ² [62 ft ²]
Weight	300 kg [662 lbs]
Blade Materials	Fiberglass

Turbine Operation

Annual Energy at 5.5m/s	770 kWh
Cut-in Wind Speed	3.5 m/s [7.8 mph]
AWEA Rated Wind Speed	11 m/s [24 mph]
Max Power Wind Speed	14 m/s [31 mph]
Cut-out Wind Speed	20 m/s [44 mph]
Survival Wind Speed	50 m/s [110 mph]
Rated RPM	200 RPM
Noise at 5m/s	41 dBA

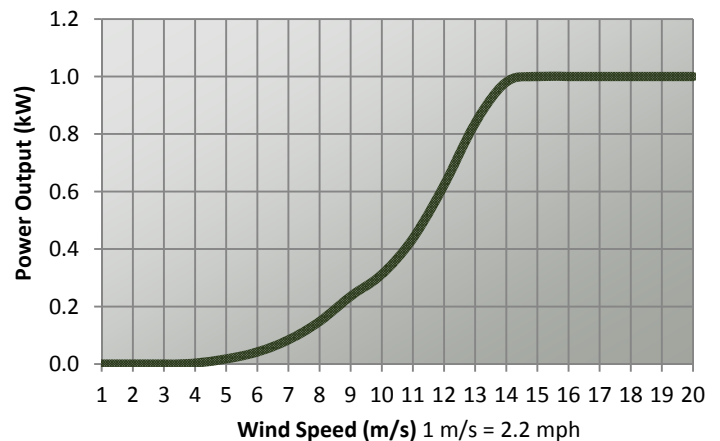
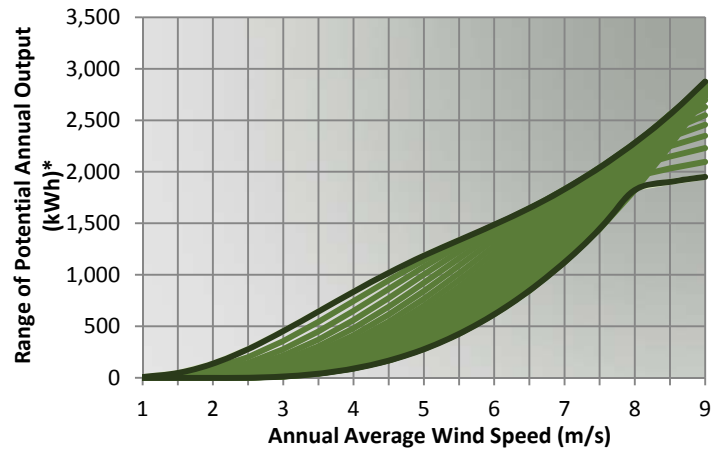
Electric Generation

Drive System	Direct Drive
UL Rated Power	1.0 kW
Generator Rated Voltage	
Off-Grid	270 V _{dc} equivalent
Grid-Tie	530 V _{dc} equivalent
Temperature Range	-25 C to 40 C (-14 F to 105 F)
Inverters and Controllers	Available for all locations and regulations

Certifications

UL 1004 / CSA C22.2	Generator Electrical Safety
ISO 9001	Manufacturing Quality Management
CE	European Conformity

Model Number UGE-3M



* Power data shown measured in ambient conditions in accordance with IEC 61400-12 and includes all electrical inefficiencies.
Annual energy production is dependent on location wind turbulence and wind speed distribution