

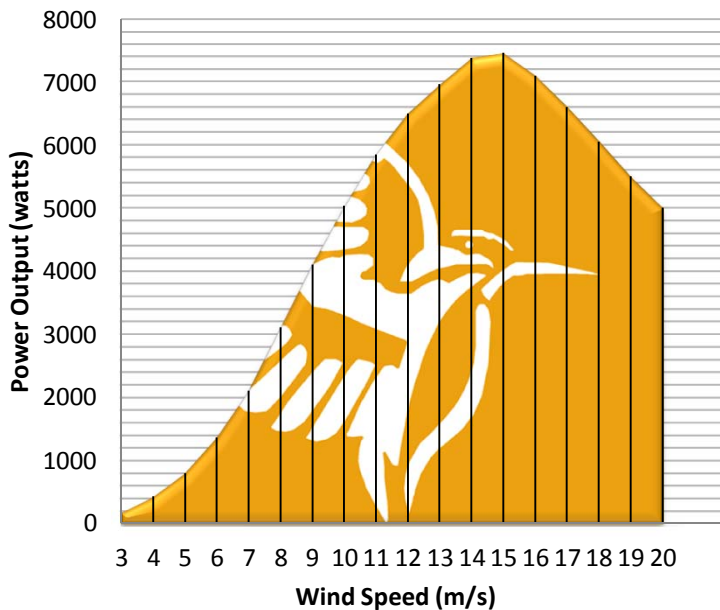
HUMMER WIND POWER ACTIVE YAW CONTROL SMALL WIND TURBINE

TECHNICAL SPECIFICATIONS



Rated Power (W):	5,000 Watts
Maximum Output (W):	7,460 Watts
Charging Voltage (VDC):	250
Number of Blades:	3
Blade Material:	GRP (Glass Fiber Reinforced Plastic)
Blade Diameter:	20.9 ft. (6.4m)
Start-up Wind Speed:	5.6 mph (2.5 m/s)
Rated Wind Speed:	22 mph (10 m/s)
RPM:	240
Speed Regulation (Protection):	Yawing (Mechanical) + Manual
Wind Energy Utilizing Ratio (Cp):	0.40
Generator Output:	Single-phase Frequency Conversion AC
Output AC Frequency (Hz):	0-360
Rate Charging Current (A):	20.8
Maximum Charging Current (in a short time) (A):	32
Noise (5m behind turbine @ 5m/s gusting):	34 dB
Generator Efficiency:	>80%
Total Tower Top Weight:	891 lbs. (404.2kg)
Turbine Warranty:	5 Year Limited
Inverter Warranty:	10 Year Limited

POWER CURVE



WIND SPEED & POWER OUTPUT

Wind Speed (m/s)	3	4	5	6	7	8	9	10
Wind Speed (mph)	6.7	8.9	11.1	13.4	15.6	17.8	20.1	22.3
Power Output (watts)	170	420	790	1,360	2,100	3,100	4,100	5,030
Wind Speed (m/s)	11	12	13	14	15	16	17	18
Wind Speed (mph)	24.6	26.8	29.0	31.3	33.5	35.7	38.0	40.2
Power Output (watts)	5,850	6,500	6,960	7,380	7,460	7,100	6,600	6,050
Wind Speed (m/s)	19	20						
Wind Speed (mph)	42.5	44.7						
Power Output (watts)	5,500	5,000						

GRID CONNECT COMPONENTS

1-Siemens Series Seven PLC Active Yaw Controller, 1-7kW UL 1741/IEEE 1547 Certified Inverter. Rectifier, Unloader and Remote Monitoring System. Monopole, Hydraulic and Lattice towers available.