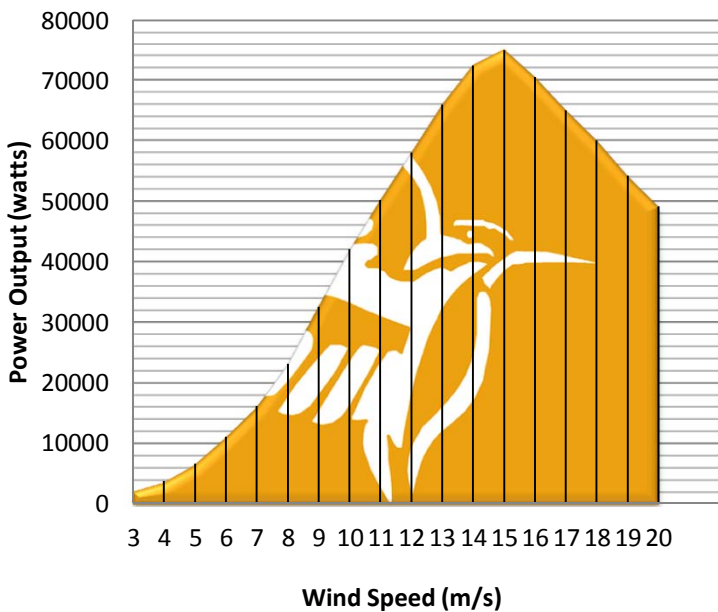


HUMMER WIND POWER ACTIVE YAW CONTROL SMALL WIND TURBINE
TECHNICAL SPECIFICATIONS


Rated Power (W):	50,000 Watts
Maximum Output (W):	75,000 Watts
Charging Voltage (VDC):	400
Number of Blades:	3
Blade Material:	GRP (Glass Fiber Reinforced Plastic)
Blade Diameter:	39.4 ft. (12m)
Start-up Wind Speed:	4.5 mph (2m/s)
Rated Wind Speed:	24.6 mph (11m/s)
RPM:	140
Speed Regulation (Protection):	Yawing (Mechanical) + Hydraulic + Manual
Wind Energy Utilizing Ratio (Cp):	0.42
Generator Output:	Single-phase Frequency Conversion AC
Output AC Frequency (Hz):	0-400
Rate Charging Current (A):	125
Maximum Charging Current (in a short time) (A):	190
Noise (5m behind turbine @ 5m/s gusting):	34 dB
Generator Efficiency:	>92%
Generator Weight:	2,640 lbs. (1,197.5kg)
Total Tower Top Weight:	5,060lbs. (2,300kg)
Turbine Warranty:	5 Year Limited
Inverter Warranty:	TBD

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)	2,100	3,600	6,500	11,000	16,000	23,000	32,500	42,000
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)	50,200	58,000	66,000	72,500	75,000	70,500	65,000	60,000
Wind Speed (m/s)	19	20						
Wind Speed (mph)	42.5	44.7						
Power Output (watts)	54,200	49,100						

The Hummer 50kW Inverter is undergoing UL1741 certification and is projected to be certified and available for North American sales in 2012.

GRID CONNECT COMPONENTS

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