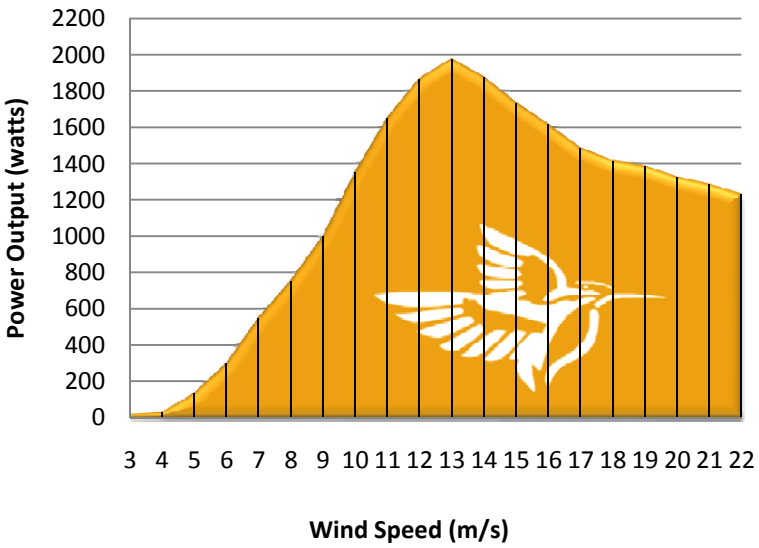
# 1kW

HUMMER WIND POWER

## Turbine Technical Parameters

| | |
|---|---|
| Rated Power (W): | 1,000 Watts |
| Maximum Output (W): | 2,000 Watts |
| Charging Voltage (V): | DC 60V |
| Output Voltage (V): | 110V to 240V |
| Number of Blades: | 3 |
| Blade Material: | GRP (Glass Fiber Reinforced Plastic) |
| Blade Diameter: | 3.1m (10 ft.) |
| Start-up Wind Speed: | 3m/s (6.7 mph) |
| Rated Wind Speed: | 9m/s (20 mph) |
| RPM: | 500 |
| Speed Regulation (Protection): | Yawing (Mechanical) + Manual |
| Wind Energy Utilizing Ratio (Cp): | 45% |
| Generator Output: | Single-phase Frequency Conversion AC |
| Output AC Frequency (Hz): | 0-400 |
| Rate Charging Current (A): | 15 |
| Maximum Charging Current (in a short time) (A): | 30 |
| Noise (5m behind turbine @ 5m/s gusting): | 30 dB |
| Generator Efficiency: | 80% |
| Generator Weight: | 15kg (33 lbs.) |
| Turbine Weight: | 65kg (143 lbs.) |
| Off Grid Battery (12V): | 5 pcs. |
| Standard Warranty: | 3 Year |
| Extended Warranty: | 5 Year |

## Power Curve Data Chart




## Annual Electrical Output

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Average Wind Speed (m/s) | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Average Wind Speed (mph) | 7 | 9 | 11 | 13 | 16 | 18 | 20 | 22 |
| Annual Power Output (kWh) | 364 | 1093 | 2369 | 3644 | 5010 | 9215 | 9566 | 11843 |

| Available Towers | Size |
|---|---|
| Guyed-Wire | 18m (59.4') |
| Wireless | 18m (59.4') |

| Standard Equipment | |
|---|---|
| Grid-Tie | Not Available. |
| Off Grid | Wind-Solar controller, charger & unloader. |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