

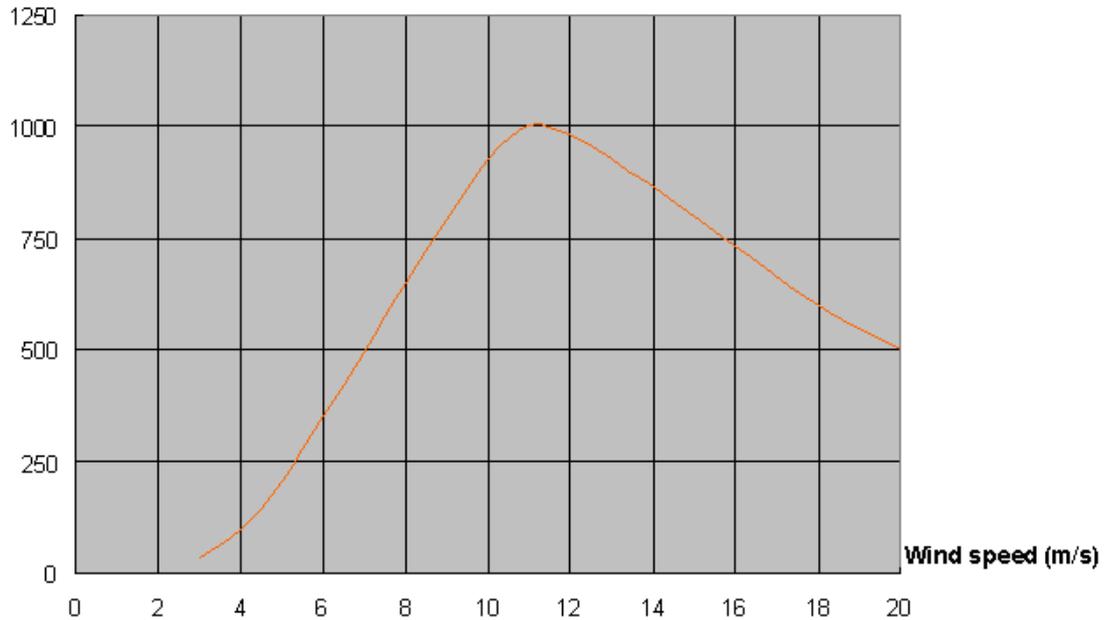
Model H2.7—500W

1. Panorama Pictures



2. Curve

Power (W)



HUMMER-500W Wind Generator

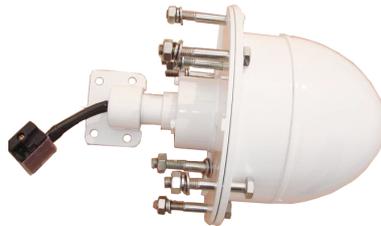
3. Specifications

Rated power(W)	500
Maximum output power (W)	1000
Charging voltage (V)	DC 24
Blade quantity	3
Blade material	GRP
Blade diameter (ft.)	8.2 (2.5m)
Start-up wind speed (mph)	7 (3.0m/s)
Rated wind speed (mph)	16 (7.0m/s)
Rated rotating rate (r/min)	600
Wind energy utilizing ratio (Cp)	0.48
Generator output	Frequency conversion AC
Output AC frequency (Hz)	0~300
Rated charging current (A)	16.7
The maximum charging current (in a short time)(A)	25
Generator efficiency	>0.78
Guy tower diameter(in.)	Φ3.0*78.7*0.1(Φ76*2000*3mm)(3pcs)
Tower height(ft.)	20 (6m)
Generator weight (lb)	14 (6.5kg)
Suggested battery(Ah)	120/150
Noise Index	LAeq=29 dBA 5m behind turbine@5m/s gusting
Speed regulation method	Yawing + Electromagnetism braking
Shutting down method	Manual & Automatic

4. Structural Pictures and Description

Generator body: mainly including generator, nose cone, and protection cover

Hummer generator, the most advanced in the world, wins 4 proprietary intellectual property rights. It is made of high-efficiency magnetic materials, special copper alloy, high-strength stainless steel and aeronautic aluminum alloys. It is extremely light and small but with high generating efficiency.



Nose cone

Made of reinforced aluminum alloy, it locates in front of blades to reduce the wind resistance. The generator is enclosed in the nose cone, which is favorable for heat dispersion.

Protection cover,

Made of reinforced aluminum alloy, it locates between blades and nose cone to further reduce the wind resistance and protect the generator.



SKF Bearings

Two SKF bearings, famous in the world with good quality and a long history, make sure the whole system in reliable, safe and steady operation status.



Flange

Made of fine steel parts, it is used to fix the blades.



Blades

Made of glass reinforced plastic, they receive wind energy and convert it into mechanical energy. Every 3 blades compose one set and have passed the strict balance test before delivery, so please don't disorderly use.



Yaw shaft

Made of fine steel parts, it is used to connect generator, blades, tail pole, tail wing with tower together. With the slip ring, it can rotate at 360°.



Tail pole & Tail wing

Tail pole is light with high intensity and made of manganese steel.

Tail wing is made of stainless steel, inflexible, auto-deflection in high wind condition, reliable and sharp in speed limitation.

They are used in 2kw and below models.



Three-in-one inverter control box

It integrates the functions of battery charger, inverter and controller with a spare terminal of solar panel on the back. Diversion lights are also included for dumping load .



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