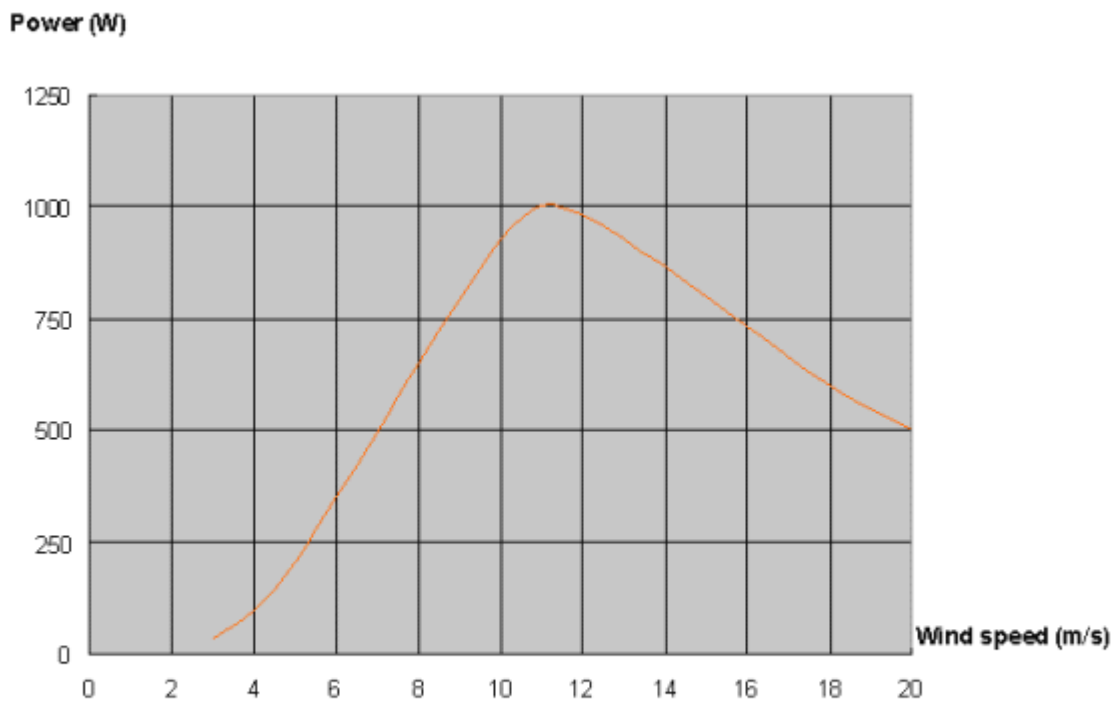


**Model H2.7—500W** (Edited on Aug. 23rd, 2011)

**1. Panorama Pictures**



**2. Curve**



**HUMMER-500W Wind Generator**

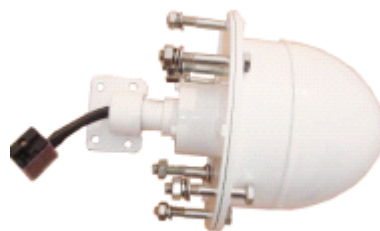
### 3. Specifications

Rated power (W)	500
Maximum output power (W)	1000
Battery bank voltage (Vdc)	24
System output voltage (Vac)	110/220
Start-up wind speed (m/s)	3
Rated wind speed (m/s)	7
Working wind speed (m/s)	3-25
Survival wind speed (m/s)	50
Generator efficiency	>0.78
Wind energy utilizing ratio (Cp)	0.48
Generator type	Permanent Magnet Alternator
Generator weight (kg)	6.5
Blade material/quantity	GRP/3
Blade diameter (m)	Φ2.5
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**

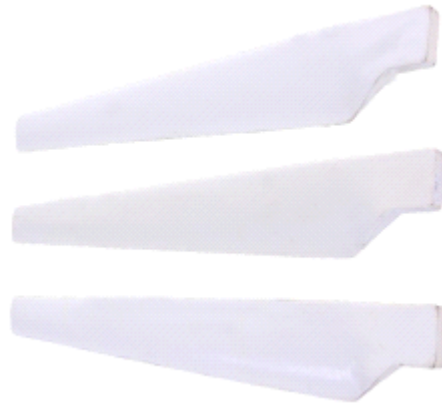
Made of fine steel parts, it is used to fix the blades.



### **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.

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**Yaw shaft,**

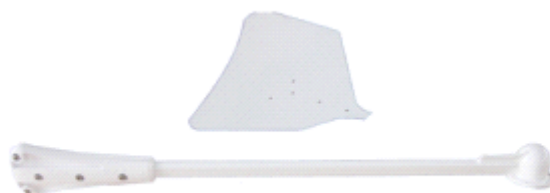
Made of fine steel parts, it is used to connect generator, blades, tail pole, tail wing with tower together. With the slip ring, it can rotate at 360°.

**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 .

