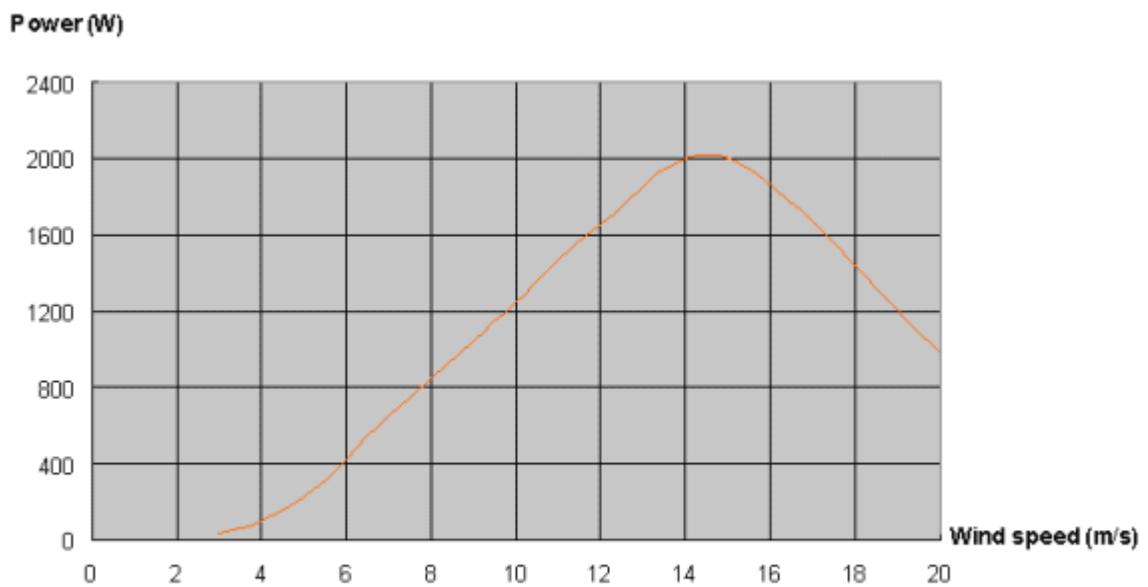


Model H3.1—1000W (Edited on Aug. 23rd, 2011)

1. Panorama Pictures



2. Curve



HUMMER-1KW Wind Generator

3. Specifications

Rated power (W)	1000
Maximum output power (W)	2000
Battery bank voltage (Vdc)	60
System output voltage (Vac)	110/220
Start-up wind speed (m/s)	3
Rated wind speed (m/s)	9
Working wind speed (m/s)	3-25
Survival wind speed (m/s)	50
Generator efficiency	>0.8
Wind energy utilizing ratio (Cp)	0.45
Generator type	Permanent Magnet Alternator
Generator weight (kg)	15
Blade material/quantity	GRP/3
Blade diameter (m)	Φ3.1
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 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 pass 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. It is for off-grid system.



Grid tied inverter

Adopting MPPT and IGBT technologies, it features with high power generation capacity and wide ac voltage range. It will connect the state grid system and provide electricity to the grid.

