

## Wind Generator Specifications

<b>Specifications</b>	<b>1 Kilowatt</b>	<b>2 Kilowatts</b>
<b>Blade Diameter (Down Wind)</b>	13.12 feet = 4 meters	18 feet = 5.5 meters
<b>Sweep Area</b>	135 sq. feet = 12.56 sq. meters	254 sq. feet = 23.75 sq. meters
<b>Rated Power</b>	1 kilowatt	2 kilowatts
<b>Maximum Power</b>	1.2 kilowatts	2.2 kilowatts
<b>Generator (Direct Drive)</b>	permanent magnet brushless	permanent magnet brushless
<b>Weight</b> (generator, nacelle, blades, tail)	94 lbs. = 43 kg	130 lbs. = 59 kg
<b>Governing System</b>	charging/logging/braking system	charging/logging/braking system
<b>Rated at Wind Speed</b>	20 (mph) 8.94 (m/s)	20 (mph) 8.94 (m/s)
<b>Start-up Wind Speed</b>	4.6 (mph) 2.07 (m/s)	4.6 (mph) 2.07 (m/s)
<b>Out-in Wind Speed</b>	5.4 (mph) 2.43 (m/s)	5.4 (mph) 2.43 (m/s)
<b>Survival Wind Speed</b>	60 (mph) 27 (m/s)	60 (mph) 27 (m/s)
<b>RPM at Rated Output</b>	250 rpm	250 rpm
<b>Output Rated at Wind Speed of 20 mph</b>	1 kW	2 kW
<b>Over Speed Control System</b> (incl. in generator set)	automatic dynamic braking	automatic dynamic braking
<b>Blade Material Extruded 6061 Aluminum</b>	aluminum airfoil	aluminum airfoil
<b>Turbine Output Voltage</b>	48 V	48 V
<b>Dump Load</b> (incl. in generator set)	2000 watts	4000 watts
<b>Controller</b> (part of governing system)	prevents overcharging	prevents overcharging
<b>Tower &amp; Base</b>	not included	not included
<b>Temperature Range</b>	-40 to + 135 F	-40 to + 135 F
<b>Construction</b>	welded steel & cast aluminum	welded steel & cast aluminum
<b>Estimated Yearly Energy Output</b>		
8 mph (average annual wind speed)	1,376 kW hours	2,768 kW hours
9 mph (average annual wind speed)	2,360 kW hours	4,462 kW hours
10 mph (average annual wind speed)	3,511 kW hours	6,683 kW hours
11 mph (average annual wind speed)	4,900 kW hours	9,264 kW hours
12 mph (average annual wind speed)	6,478 kW hours	12,248 kW hours
13 mph (average annual wind speed)	8,295 kW hours	15,684 kW hours
14 mph (average annual wind speed)	10,282 kW hours	19,439 kW hours
<b>Estimated Payback Time</b>		
(based on grid power cost of \$0.15 cents per kilowatt)	<b>1.8 years</b>	<b>1.9 years</b>
	(@11 mph average wind speed)	(@11 mph average wind speed)
<b>Packing, Weight and Volume</b>		
(generator, nacelle, blades, tail, dump load & braking system)	66 kg / 0.4 cbm	90 kg / 0.5 cbm
	146 lbs. / 14 cbf	198 lbs. / 18 cbf
<b>Warranty Coverage</b>		
(parts & labor 1 year, parts only during remaining warranty period)	<b>5 years</b>	<b>5 years</b>

**60 DAYS SATISFACTION MONEY BACK GUARANTEE!**





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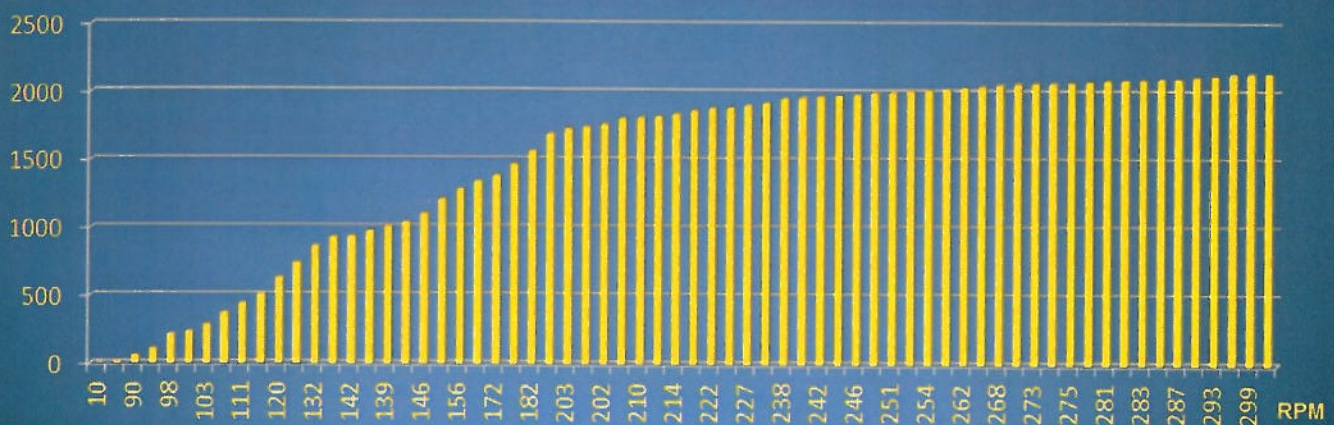
ds, Inc.

## 2 Kilowatt Wind Generator



2KW / 48 Volt

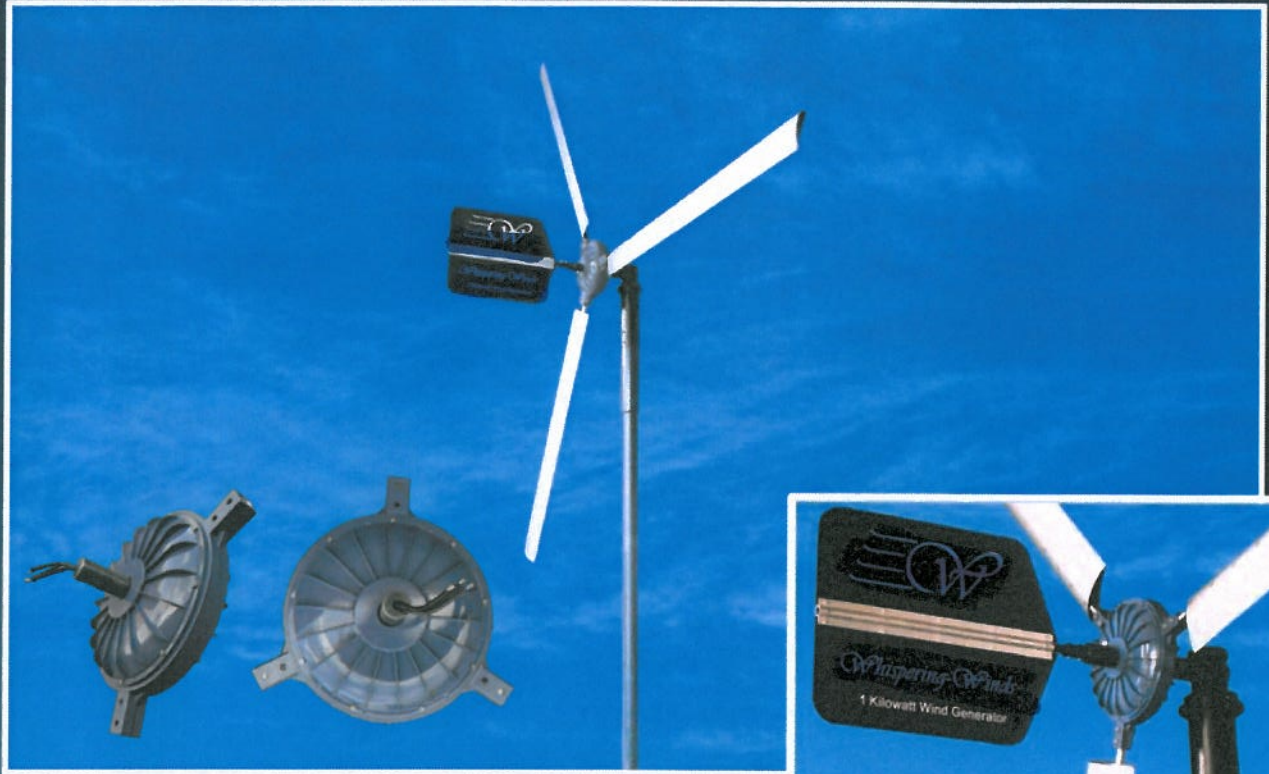
Watts





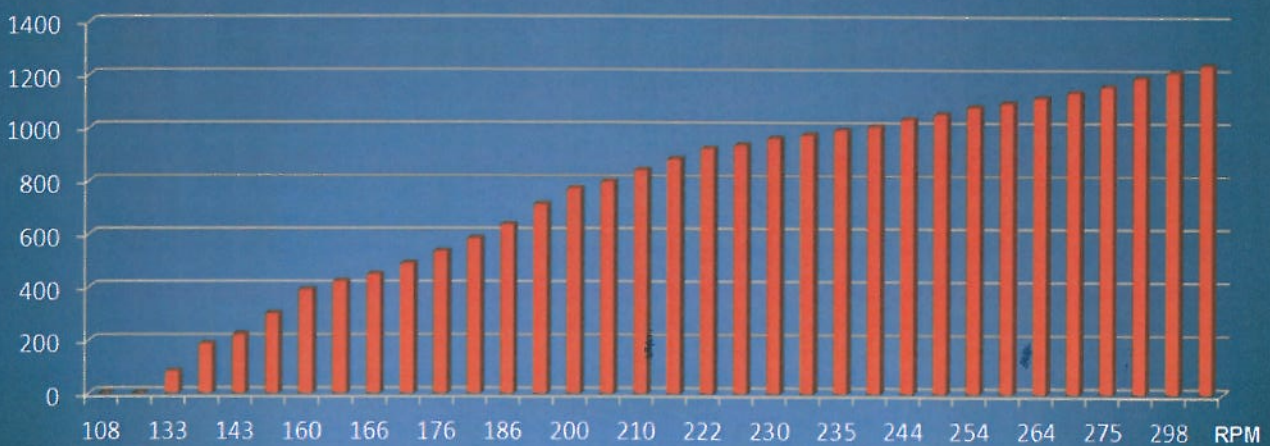
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## 1 Kilowatt Wind Generator



1KW/ 48 Volts

Watts



## Brochure Download



### Whispering-Winds 1000W

#### Brochure

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### Whispering-Winds 2000W

#### Brochure

[Whispering-Winds 2KW  
Wind Generator Broc\[...\]](#)

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## Customer Visits

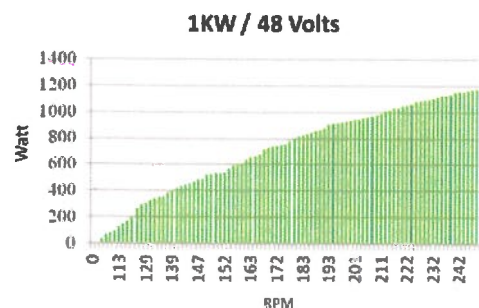


Mr. Roberts and Mr. Lee Visit

## Whispering-Winds 1000W Output Graph

As a LOW RPM design, Whispering-Winds 1000W operates quietly and efficiently. It makes it possible to extract the maximum energy from average wind days.

The graph on the left side is generated from the raw data from the chart listed below. As you can see, it can generate almost 1200W at 250RPM.



Amps	Watts	RPM
0.7	30.9	107
3.1	141.7	115
6.5	302.6	129
8.2	381.6	137
9.8	454.7	144
11.2	523.8	150
12.5	589.6	156
14.0	663.9	164
15.6	740.6	172
16.9	808.8	181
18.0	861.8	189

The rated RPM of Whispering-Winds 1000W wind generator is around 212 RPM, which is about 20MPH (8.94 m/s) in terms of wind speed. This will help the wind turbine users to get more power and extract more energy from the regular windy days.

With an average wind speed of 11 MPH (4.95 m/s), the Whispering-Winds 1000W wind generator could generate more than 4,900 KW Hours within a year!

Also, the raw datas was recorded by using 48V battery banks, and it would also work with 24V





Mr. Paul Siemon Visit



Mr. Ketchum & Mr. Fortunate visit



Mr. Kolip and Mr. Schneider visit



Mr. Dalum, Mr. Uebel & Mr. Lee visit

Wind Speed (mph)	Power Output (Watt)	RPM
18.0	918.1	198
19.6	950.5	204
20.2	1002.2	212
20.3	1050.2	222
21.2	1097.4	230
21.9	1129.3	239
22.5	1165.1	248
22.6	1171.3	250

battery, which will help you to achieve an early "cut-in".

For people who love to reduce their carbon foot print and those who want to cut the electricity bills, Whispering-Winds is proven to be the best choice for generating pollution free energy.

### What Is In The Kit

Whispering-Winds 1000 Watt Generator is a brushless, three-phase permanent magnetic AC generator, with a rated output @ 1000W at a wind speed of 20 mph.

Packing is protected by POLYETHYLENE FOAM in durable POLYPROPYLENE export carton!



**Governing System** - This unit is an integration of automatic braking system, controller & logger.

It will automatically monitor the rotor speed and keep it at or below 250RPM. When the wind is very strong, and dynamic Braking is activated. The Power from the generator is diverted to the Dump Load, which slows the rotor until it is slightly below 250 RPM, this allows you to get the most watts possible from the wind.

It can also prevent the battery from over-charging & monitor the output performance of the windmill.

**DUMP LOAD** - This is a heavy duty DUMP LOAD which contains two large 2 ohm wire wound resistors. It has been especially designed as a dump load for wind generator use.

The dump load wire terminals have an extra cover to protect the terminals and to assure safe operation and use.



**PACKING** - The windmill kit will be packed in three separate HEAVY-DUTY POLYPROPYLENE CARTONS, which are heavy-duty and re-usable. (Do not discard these cartons in case of merchandise return)

The parts inside the cartons are protected with fitted POLYETHYLENE foam

to prevent any potential damage during the transportation.

### All You Want To Know About Whispering-Winds 1000W

Blade Diameter (Down Wind)	13.12 feet = 4 meters
Sweep Area	135 sq. feet = 12.56 sq. meters
Rated Power	1 Kilowatt
Maximum Power	1.2 Kilowatt
Generator (Direct Drive)	Permanent magnet brushless
Packed Weight	146 lbs (66 kg)
Governing System	charging/logging/braking system
Rated at Wind Speed	20 (mph) 8.94 (m/s)
Start up Wind Speed	4.6 (mph) 2.07 (m/s)
Cut-In Speed	5.4 (mph) 2.43 (m/s)
Survival Wind Speed	60 (mph) 27 (m/s)
RPM at Rated Output	250 rpm
Rated Output at a Wind Speed of 20mph	1KW
Over Speed Control System (Included in generator set)	Automatic Dynamic Braking System

Blade Material Extruded 6061 Aluminum	Aluminum Airfoil (Anodized Surface)
Turbine Output Voltages	48V
Dump Load Included	2000W
Controller	Included in the kit (prevents overcharging batteries). Part of governing system.
Noise Level	+/- 45 dB
Kit Includes	Brushless 3-phase AC generator, nacelle (slip ring included), blades, tail, governing system & dump load.
Warranty	5 years

### Estimated Yearly Output

Average Annual Wind Speed	Estimated Yearly Output
8 mph (average annual wind speed)	1,376 kW hours
9 mph (average annual wind speed)	2,360 kW hours
10 mph (average annual wind speed)	3,511 kW hours
11 mph (average annual wind speed)	4,900 kW hours
12 mph (average annual wind speed)	6,478 kW hours
13 mph (average annual wind speed)	8,295 kW hours
14 mph (average annual wind speed)	10,282 kW hours



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