



Section 1: Identification of Product and Supplier

Product Names

Trade Names: Small Wind Turbine Generator, Small Wind Turbine Generator Blue Edition, High Wind Turbine Generator

Product Use

Wind turbines convert kinetic energy from the wind into mechanical energy which spins a generator to produce clean electricity. Pacific Sky Power wind turbines are rated at 15 watts that can be used for charging batteries or for powering LED lights directly.

Supplier

Pacific Sky Power LLC
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Section 2: Potential Hazards

Battery Charging Precautionary Statement

For charging, properly connect the wind turbine's power cable to the battery and make sure no loose wires or conductive material could cause a short circuit.

Battery Charging Precautionary Statement

While using one wind turbine you can connect directly to a 12 volt battery without using a charge controller. This is possible because the output is under 15 watts. However, when using multiple turbines, a charge controller rated for wind is recommended.

Precautionary Statement

Exercise caution during wind turbine operation. The props are relatively safe but they can cause small scrapes during high speed operation if they come in contact with any part of your body.



Section 3: Composition/Recommended Installation

Composition and Form

Pacific Sky Power wind turbines are comprised of a plastic housing, DC motor, propeller and a power cable. Military grade tapes and sealants are used to weather proof the housing making these wind turbines resistant to rain but they are not water proof.

Installation Recommendation

All outdoor installations should use a tail and pivot so the wind turbine stays pointing into the wind at all times.

Indoor testing

Indoor operation with a house hold fan is a good method to start testing performance.

Section 4: Personal Protection

Eye

Safety Glasses are recommended during operational testing.

Hands

Gloves are recommended for operational testing.

Section 5: Physical Appearance/ Recommended Winds

Appearance

Small Wind Turbine Generators are one piece units and no assembly is required. Three different wind turbines are made for different wind conditions. The red wind turbine is recommended for areas with 10 and 20 mph winds. The blue wind turbine is recommended for areas with 10 and 30 mph winds. The white wind turbine is recommended for areas with wind speeds above 15 mph.



Section 6: Chemical Stability and Reactivity

Stable under normal conditions of storage and use.

Incompatible materials

Do not store with oxidizing agents.

Hazardous decomposition products

Product will start to decompose if maintained at temperatures of $>140^{\circ}\text{C}$.

Decomposition products are hydrochloric acid, carbon dioxide, carbon monoxides and possibly phosgene.

Section 7: Ecological Information

Eco toxicity

No adverse effects on environment have been reported.

Section 8: Transport Information

Land Transport (Road/Rail) Not classified as a dangerous goods.

Marine Transport

Not classified as a dangerous goods.

Air Transport

Not classified as a dangerous goods.

Section 9: Regulatory Information

There is no safety, health or environmental regulations specific to these products.



Section 10: Technical Specifications: Red Small Wind Turbine Generator

Startup wind speed: 8 mph
Survival wind speed: 40 mph
Rotor type: Horizontal axis
Rotor diameter: 15"
Generator type: Brushed DC motor
Battery charging: 12 volt DC
Charging rpm: 500 to 2000 rpm
Output: 15 watts

Section 11: Technical Specifications: Blue Edition Small Wind Turbine Generator

Startup wind speed: 8 mph
Survival wind speed: 40 mph
Rotor type: Horizontal axis
Rotor diameter: 15"
Generator type: Brushed DC motor
Battery charging: 12 volt DC
Charging rpm: 500 to 2000 rpm
Output: 15 watts

Section 12: Technical Specifications: White High Wind Turbine Generator

Startup wind speed: 15 mph
Survival wind speed: 50 mph
Rotor type: Horizontal axis
Rotor diameter: 12"
Generator type: Brushed DC motor
Battery charging: 12 volt DC
Charging rpm: 500 to 2000 rpm
Output: 15 watts

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product and shall not establish a legally valid contractual relationship.

Department Issuing MSDS: Technical Analysis; Pacific Sky Power LLC
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