

## EcoWind Turbine 1kW – User Manual

### EcoWind Turbine 1kW Metadata

Model: WT-1000

Category: small\_turbines

Tags: small\_turbines, WT-1000, Cirrus, Renewable Energy, EcoWind Turbine 1kW

#### 1. **EcoWind Turbine 1kW Overview**

Compact and quiet VAWT design mounting easily on rooftops and poles.

#### 2. **EcoWind Turbine 1kW Intended Use**

Designed for residential and light commercial renewable-energy applications. Any other use may void the warranty and pose safety risks.

#### 3. **EcoWind Turbine 1kW Safety Information**

- a. Never climb the tower while blades are rotating.
- b. Lock the mechanical brake and isolate circuits before maintenance.
- c. Maintain a 1.5× tower-height fall-zone clear of structures.

#### 4. **EcoWind Turbine 1kW Prerequisites**

- a. Read this manual in full before installation.
- b. Ensure local electrical codes and permits are satisfied.
- c. Have the following tools: multimeter, torque wrench, crimping tool, PPE.

#### 5. **EcoWind Turbine 1kW Installation Guide**

- a. Site hub ≥9 m above obstructions within 150 m
- b. Torque anchor bolts to spec; re-check guy-wire tension after 30 days
- c. Install lightning protection per IEC 61400-24.

#### 6. **EcoWind Turbine 1kW Configuration & Operation**

Refer to the controller or inverter interface to set voltage and charging parameters. Adjust based on battery chemistry or site requirements.

#### 7. **EcoWind Turbine 1kW Maintenance Schedule**

- a. Inspect blades semi-annually for cracks or ice damage.
- b. Grease yaw and rotor bearings every 12 months.
- c. Log vibration; service if >25 % above baseline.

#### 8. **EcoWind Turbine 1kW Troubleshooting**

- a. **No Output / Zero Power:** Check PV input voltage; verify connectors.
- b. **Low Power Output:** Inspect for shading, soiling, or loose wiring.



- c. **System Fault Code:** Consult controller/inverter fault table; reset after corrective action.

### 9. EcoWind Turbine 1kW Technical Specifications

Specification	Value
Power Output	1000W
Voltage	48V
Dimensions	39 x 39 x 60 inches
Weight	75 lbs
Warranty	5 years
Efficiency	35%
Operating Temperature	-30°C to +60°C

### 10. EcoWind Turbine 1kW Regulatory & Standards

- a. IEC 61400-2
- b. IEC 61400-24
- c. NFPA 70E

### 11. EcoWind Turbine 1kW Warranty & Support

Warranty: 5 years

For assistance, contact Cirrus support: [support@cirrus.com](mailto:support@cirrus.com) or +1-800-CIRRUS-1.