

EcoWind Turbine 500W – User Manual

EcoWind Turbine 500W Metadata

Model: WT-500

Category: small_turbines

Tags: small_turbines, WT-500, Cirrus, Renewable Energy, EcoWind Turbine 500W

1. EcoWind Turbine 500W Overview

Ideal for sites with average wind speeds below 10mph.

2. EcoWind Turbine 500W 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 500W 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 500W 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 500W 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 500W 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 500W Maintenance Schedule

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

8. EcoWind Turbine 500W 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 500W Technical Specifications

Specification	Value
Power Output	500W
Voltage	24V
Dimensions	30 x 30 x 50 inches
Weight	60 lbs
Warranty	3 years
Efficiency	30%
Operating Temperature	-30°C to +60°C

10. EcoWind Turbine 500W Regulatory & Standards

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

11. EcoWind Turbine 500W Warranty & Support

Warranty: 3 years

For assistance, contact Cirrus support: support@cirrus.com or +1-800-CIRRUS-1.