

EcoWind Mini 150W – User Manual

EcoWind Mini 150W Metadata

Model: EWM-150

Category: small_turbines

Tags: small_turbines, EWM-150, Cirrus, Renewable Energy, EcoWind Mini 150W

1. EcoWind Mini 150W Overview

150W mini turbine for educational and hobbyist use

2. EcoWind Mini 150W Intended Use

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

3. EcoWind Mini 150W 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 Mini 150W 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 Mini 150W 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 Mini 150W 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 Mini 150W 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 Mini 150W Troubleshooting

No Output / Zero Power: Check PV input voltage; verify connectors.

Low Power Output: Inspect for shading, soiling, or loose wiring.



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

9. EcoWind Mini 150W Technical Specifications

Specification	Value
Power Output	150W
Voltage	12V
Dimensions	20 x 20 x 30 inches
Weight	15 lbs

10. Regulatory & Standards

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

11. EcoWind Mini 150W Warranty & Support

Warranty: 10 years

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