

TinyTurbine 250W – User Manual

TinyTurbine 250W Metadata

Model: TT-250

Category: small_turbines

Tags: small_turbines, TT-250, Cirrus, Renewable Energy, TinyTurbine 250W

1. **TinyTurbine 250W Overview**

Low-maintenance turbine ideal for cabins and remote sites.

2. **TinyTurbine 250W Intended Use**

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

3. **TinyTurbine 250W 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. **TinyTurbine 250W 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. **TinyTurbine 250W 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. **TinyTurbine 250W Configuration & Operation**

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

7. **TinyTurbine 250W 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. **TinyTurbine 250W 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. TinyTurbine 250W Technical Specifications

Specification	Value
Power Output	250W
Voltage	12V
Dimensions	20 x 20 x 40 inches
Weight	35 lbs
Warranty	3 years
Efficiency	25%

10. TinyTurbine 250W Regulatory & Standards

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

11. TinyTurbine 250W Warranty & Support

Warranty: 3 years

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