

MiniSolar 150W – User Manual

MiniSolar 150W Metadata

Model: SP-150-MIN

Category: solar_panels

Tags: solar_panels, SP-150-MIN, Cirrus, Renewable Energy, MiniSolar 150W

1. MiniSolar 150W Overview

Perfect for camping, RVs, and small-scale DIY solar projects.

2. MiniSolar 150W Intended Use

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

3. MiniSolar 150W Safety Information

- a. Always de-energize circuits at the combiner box and apply lock-out/tag-out before wiring work.
- b. Use fall-arrest systems when working on rooftops; ensure anchors are rated ≥ 5 kN.
- c. Wear DC-rated gloves and keep tools insulated to mitigate arc-flash hazards.

4. MiniSolar 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. MiniSolar 150W Installation Guide

- a. Perform shade analysis to target ≤ 10 % annual shading.
- b. Tilt modules to site latitude $\pm 10^\circ$; orient south-facing in the northern hemisphere.
- c. Use wind/snow-load-rated stainless hardware; comply with ASCE-7-22.
- d. Route cables in UV-resistant conduit; label per NEC 2024 Article 690.

6. MiniSolar 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. MiniSolar 150W Maintenance Schedule

- a. Rinse with de-ionized water when soiling losses exceed 5 %.



- b. Inspect wiring and connectors annually for corrosion or damage.
- c. Track daily production; investigate drops >10 % from baseline.

8. MiniSolar 150W 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. MiniSolar 150W Technical Specifications

Specification	Value
Power Output	150W
Voltage	12V
Dimensions	40 x 20 x 1.2 inches
Weight	18 lbs
Warranty	5 years performance, 2 years product
Efficiency	17.5%

10. Regulatory & Standards

- a. IEC 61215
- b. IEC 61730
- c. NEC 2024 Article 690
- d. UL 1703

11. MiniSolar 150W Warranty & Support

Warranty: 5 years performance, 2 years product

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