

Classic Solar Panel 100W – User Manual

Classic Solar Panel 100W Metadata

Model: SP-100-CLS

Category: solar_panels

Tags: solar_panels, SP-100-CLS, Cirrus, Renewable Energy, Classic Solar Panel 100W

1. Classic Solar Panel 100W Overview

Affordable monocrystalline panel with reliable performance for basic applications.

2. Classic Solar Panel 100W Intended Use

Designed for residential and light commercial renewable-energy applications.

Any other use may void the warranty and pose safety risks.

3. Classic Solar Panel 100W 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. Classic Solar Panel 100W 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. Classic Solar Panel 100W Installation Guide

- a. Perform shade analysis to target ≤ 10 % annual shading.
- b. Tilt modules to site latitude ± 10 °; 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. Classic Solar Panel 100W Configuration & Operation

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

7. Classic Solar Panel 100W 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. Classic Solar Panel 100W 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. Classic Solar Panel 100W Technical Specifications

Specification	Value
Power Output	100W
Voltage	12V
Dimensions	48 x 21 x 1.2 inches
Weight	22 lbs
Warranty	12 years performance, 5 years product
Efficiency	18.5%
Operating Temperature	-20°C to +60°C

10. Regulatory & Standards

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

11. Classic Solar Panel 100W Warranty & Support

Warranty: 12 years performance, 5 years product

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