REDARC SPFP1200

REDARC 200W Monocrystalline Portable Folding Solar Panel SPFP1200 User Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your REDARC 200W Monocrystalline Portable Folding Solar Panel (Model: SPFP1200). Please read these instructions carefully before setup and operation to ensure optimal performance and longevity of your solar panel. This product is designed to convert sunlight into electrical energy for charging 12V battery systems.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the product:

- Do not attempt to disassemble, modify, or repair the solar panel. Unauthorized modifications can be dangerous and will void the warranty.

- Handle the solar panel with care. Avoid dropping or subjecting it to strong impacts.

- Ensure all electrical connections are secure and correctly polarized before connecting to a battery or charge controller. Incorrect wiring can cause damage.

- Do not touch exposed wires or terminals when the panel is exposed to sunlight, as it will generate electricity.

- Keep the solar panel away from open flames, flammable gases, and liquids.

- Always use an appropriate solar charge controller between the solar panel and the battery to prevent overcharging and reverse current flow.

- Keep children and pets away from the solar panel during operation.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- REDARC 200W Monocrystalline Portable Folding Solar Panel

- Integrated adjustable support legs

- Connection cables (typically with Anderson-style plugs or similar)

- User Manual (this document)

4. SETUP

Follow these steps to set up your portable folding solar panel:

1. **Unfold the Panel:** Carefully unfold the solar panel sections on a flat, stable surface.

2. **Position the Legs:** Extend and lock the integrated adjustable support legs to prop up the panel. Ensure the legs are stable and can support the panel's weight.

3. **Angle Towards the Sun:** Adjust the angle of the panel using the support legs to face directly towards the sun for maximum efficiency. The optimal angle will vary depending on your location and the time of day.

4. **Connect to Charge Controller:** Connect the solar panel's output cable to the input terminals of a compatible solar charge controller. Ensure correct polarity (positive to positive, negative to negative).

5. **Connect to Battery:** Connect the output terminals of the solar charge controller to your 12V battery system. Always connect the charge controller to the battery *before* connecting it to the solar panel.

Image: REDARC 200W Monocrystalline Portable Folding Solar Panel in deployed state.

This image shows the REDARC 200W Monocrystalline Portable Folding Solar Panel unfolded and set up with its adjustable legs, ready for sun exposure. The panel's dark, reflective surface indicates its monocrystalline cells, and the sturdy frame is visible.

5. OPERATING

Once set up, the solar panel will begin generating power when exposed to sunlight. The charge controller will regulate the power flow to your battery.

- **Monitor Charging:** Observe the indicators on your solar charge controller to confirm that the battery is charging correctly.

- **Adjust for Sun:** For best results, periodically adjust the panel's angle throughout the day to follow the sun's path.
- **Environmental Factors:** Cloud cover, shade, and dust on the panel will reduce power output.

No official product videos from the seller were found for embedding in this manual.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your solar panel:

- **Cleaning:** Clean the surface of the solar panel regularly with a soft, damp cloth to remove dust, dirt, and debris. Avoid abrasive cleaners or harsh chemicals.
- **Inspect Connections:** Periodically check all electrical connections for corrosion, looseness, or damage. Ensure they are clean and secure.
- **Storage:** When not in use, fold the solar panel and store it in a dry, cool place, away from direct sunlight and extreme temperatures. Use the provided carrying case if available.
- **Physical Inspection:** Inspect the panel for any physical damage, such as cracks in the glass or frame, before and after each use.

7. TROUBLESHOOTING

If you encounter issues with your solar panel, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
No power output from panel	No sunlight, panel in shade, dirty panel surface, faulty connection.	Move panel to direct sunlight, remove any shading, clean panel surface, check all connections.
Low power output	Partial shading, incorrect panel angle, cloudy weather, dirty panel, undersized charge controller.	Ensure full sun exposure, adjust panel angle, clean panel, verify charge controller is rated for 200W.
Battery not charging	Charge controller fault, incorrect wiring, battery fault, insufficient solar input.	Check charge controller status, verify wiring polarity, test battery, ensure adequate sunlight.
Panel appears damaged	Physical impact, improper handling.	Discontinue use. Contact REDARC support for assistance. Do not attempt repairs.

8. SPECIFICATIONS

Key technical specifications for the REDARC 200W Monocrystalline Portable Folding Solar Panel SPFP1200:

Specification	Value
Brand	REDARC

Specification	Value
Model Number	SPFP1200
Maximum Power	200 Watts
Material	Monocrystalline
Efficiency	High Efficiency
Item Weight	24.2 pounds (10.98 kg)
Product Dimensions (Folded)	Approximately 34.6 x 30.9 x 3.7 inches (87.9 x 78.5 x 9.4 cm)
Style	Adjustable, Portable
Manufacturer	REDARC Electronics

9. WARRANTY AND SUPPORT

REDARC products are manufactured to high standards and come with a manufacturer's warranty. Specific warranty terms and conditions, including duration and coverage, are typically provided with your purchase documentation or can be found on the official REDARC website. Please retain your proof of purchase for warranty claims.

For technical support, warranty inquiries, or service, please contact REDARC customer service directly. Refer to the REDARC website for the most current contact information and support resources.