

Lion Energy 50170172

Lion Energy Folding Portable Solar Panel User Manual

Model: 50170172

1. INTRODUCTION

Thank you for choosing the Lion Energy Folding Portable Solar Panel. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your solar panel. Please read this manual thoroughly before using the product and retain it for future reference.

The Lion Energy 50 Watt 12 Volt Folding Portable Solar Panel is designed to provide convenient and reliable power for your devices, whether you are RVing, camping, or in an off-grid situation. Its compact and lightweight design makes it ideal for travel.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product:

- Do not attempt to disassemble, repair, or modify the solar panel. This may cause damage and void the warranty.
- Avoid exposing the solar panel to extreme temperatures, direct flame, or corrosive substances.
- Do not immerse the solar panel in water. While designed for outdoor use, it is not fully submersible.
- Ensure all connections are secure before use to prevent electrical hazards.
- Keep out of reach of children.
- Handle with care to avoid dropping or physical impact, which can damage the solar cells.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Lion Energy Folding Portable Solar Panel (50 Watt)
- 10' Barrel to Barrel Cord
- Integrated USB-A and USB-C ports
- Integrated Kickstand
- Carrying Case

4. PRODUCT FEATURES

The Lion Energy Folding Portable Solar Panel offers the following key features:

- **High Efficiency Monocrystalline Silicon:** Maximizes solar energy conversion.
- **Compact and Portable Design:** Folds down to 11.25" X 11.25" and weighs only 3 lbs for easy transport.
- **Versatile Charging Options:** Equipped with 1 USB-A port, 1 USB-C port, and a barrel connector for various devices.
- **Integrated Kickstand:** Allows for optimal angle adjustment towards the sun.
- **Durable Construction:** Designed for outdoor use in various environments.

5. SETUP

1. **Unfold the Solar Panel:** Carefully unfold the solar panel completely.
2. **Position for Sunlight:** Using the integrated kickstands, position the panel in direct sunlight. Adjust the angle to face the sun directly for maximum efficiency.
3. **Connect Devices:** Connect your device or power unit using the appropriate port (USB-A, USB-C, or the included 10' barrel to barrel cord).



Image: The Lion Energy Folding Portable Solar Panel fully unfolded, showing its four segments and the integrated kickstand for optimal sun exposure.



Image: A top-down view of the Lion Energy Folding Portable Solar Panel fully extended, illustrating its compact yet powerful design when deployed.

6. OPERATING INSTRUCTIONS

Once set up, the solar panel will begin generating power when exposed to sunlight. The output will vary based on sunlight intensity and angle.

- **Charging Devices:** Connect your smartphone, tablet, power bank, or other compatible devices directly to the USB-A or USB-C ports.
- **Charging Power Units:** Use the 10' barrel to barrel cord to connect the solar panel to compatible Lion Energy power units or other devices that accept barrel input.
- **Optimal Performance:** For best results, ensure the panel is clean and positioned directly facing the sun. Avoid shaded areas.



Image: Illustration showing the Lion Energy solar panel's versatility in charging different devices like laptops, smartphones, smartwatches, and earbuds, highlighting its power delivery capabilities.



Lion Eclipse Power Bank

3-IN-1

WIRELESS + USB CHARGER

90 MIN

TO FULLY CHARGE



Image: The Lion Energy Eclipse Power Bank shown alongside the folded solar panel, emphasizing its 3-in-1 wireless and USB charging capabilities and fast charging time.

7. MAINTENANCE

- **Cleaning:** Regularly wipe the solar panel surface with a soft, damp cloth to remove dust, dirt, or debris. A clean surface ensures optimal power generation. Do not use harsh chemicals or abrasive materials.
- **Storage:** When not in use, fold the solar panel and store it in its carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the panel and cables for any signs of damage, wear, or loose connections.



Image: The Lion Energy Folding Portable Solar Panel in its compact, folded state, ready for storage or transport, showcasing its integrated storage pocket.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power output	Insufficient sunlight	Ensure panel is in direct sunlight and not shaded. Adjust angle towards the sun.
No power output	Dirty panel surface	Clean the panel surface with a soft, damp cloth.
No power output	Loose or incorrect connection	Check all cables and ensure they are securely connected to the correct ports.
Low power output	Partial shading or cloudy weather	Relocate the panel to a fully unshaded area. Output will naturally be lower in cloudy conditions.
Device not charging	Device requires more power than panel provides	Ensure your device's power requirements are within the panel's 50W output. Some devices may require a power bank as an intermediary.

9. SPECIFICATIONS

Attribute	Detail
Brand	Lion Energy

Attribute	Detail
Model Number	50170172
Material	Monocrystalline Silicon
Maximum Power	50 Watts
Maximum Voltage	12 Volts
AC Adapter Current	2.78 Amps
Efficiency	High Efficiency
Connector Types	USB-A, USB-C, Barrel Connector
Item Weight	3 Pounds (1.36 kg)
Product Dimensions (Folded)	11.25 x 11.25 x 1.63 inches (28.58 x 28.58 x 4.14 cm)
Special Features	Foldable, Lightweight, High Efficiency, Versatile Charging Options
UPC	858311007528

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official Lion Energy website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Contact Information:

- **Brand:** Lion Energy
- **Website:** www.lionenergy.com
- **Seller:** Lion Energy

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for

conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question