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Renogy Solar Panel 100W 12V

Renogy 100W Lightweight Flexible Solar Panel User Manual

Model: Solar Panel 100W 12V

Brand: Renogy

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Renogy 100W Lightweight Flexible Solar Panel. This panel is designed for various off-grid applications, including RVs, marine vessels, vans, cars, and other curved surfaces, offering high power output and exceptional durability.

Key features include:

- **High Power Output:** Provides an average of 500 Watt-hours of electricity per day (depending on sun availability).
- **Easy to Transport, Carry and Install:** Bendable within 240 degrees, weighing only 1/3 of the rigid panel, with an all-black glare-free appearance.
- **Industry-leading Tech:** Equipped with half-cut PERC cell technology that enhances solar light capture and electrical performance, therefore improving the output efficiency.
- **Reliable & Durable:** IP67 rated waterproof junction box and solar connectors. Withstand up to 5400 Pa of heavy snow load and up to 2400 Pa of high wind.
- **Ready for Installation:** Comes with pre-drilled mounting holes and 2.3 feet long solar connector cables.

PRODUCT OVERVIEW

The Renogy 100W Lightweight Flexible Solar Panel is a cutting-edge solution for portable and flexible solar power needs. Its innovative design allows for seamless integration onto various surfaces.



Figure 1: Renogy 100W Lightweight Flexible Solar Panel.

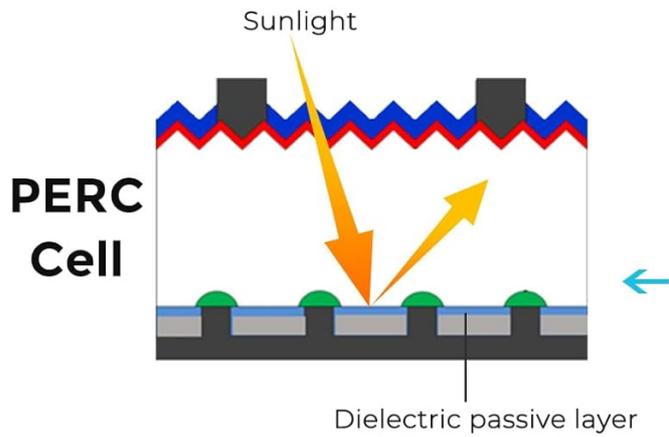
500WH ELECTRICITY



An average of 500Wh of electricity per day
(depending on sun availability).

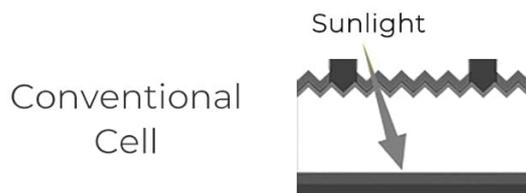
Figure 2: The flexible solar panel can provide an average of 500 Watt-hours of electricity per day.

PERC SOLAR CELLS WITH IMPROVED EFFICIENCY



Reflected light will generate additional current.

VS



Light is absorbed by the aluminum metallization.



Figure 3: PERC solar cells enhance solar light capture and electrical performance.

INDUSTRY-LEADING HALF-CELL TECH

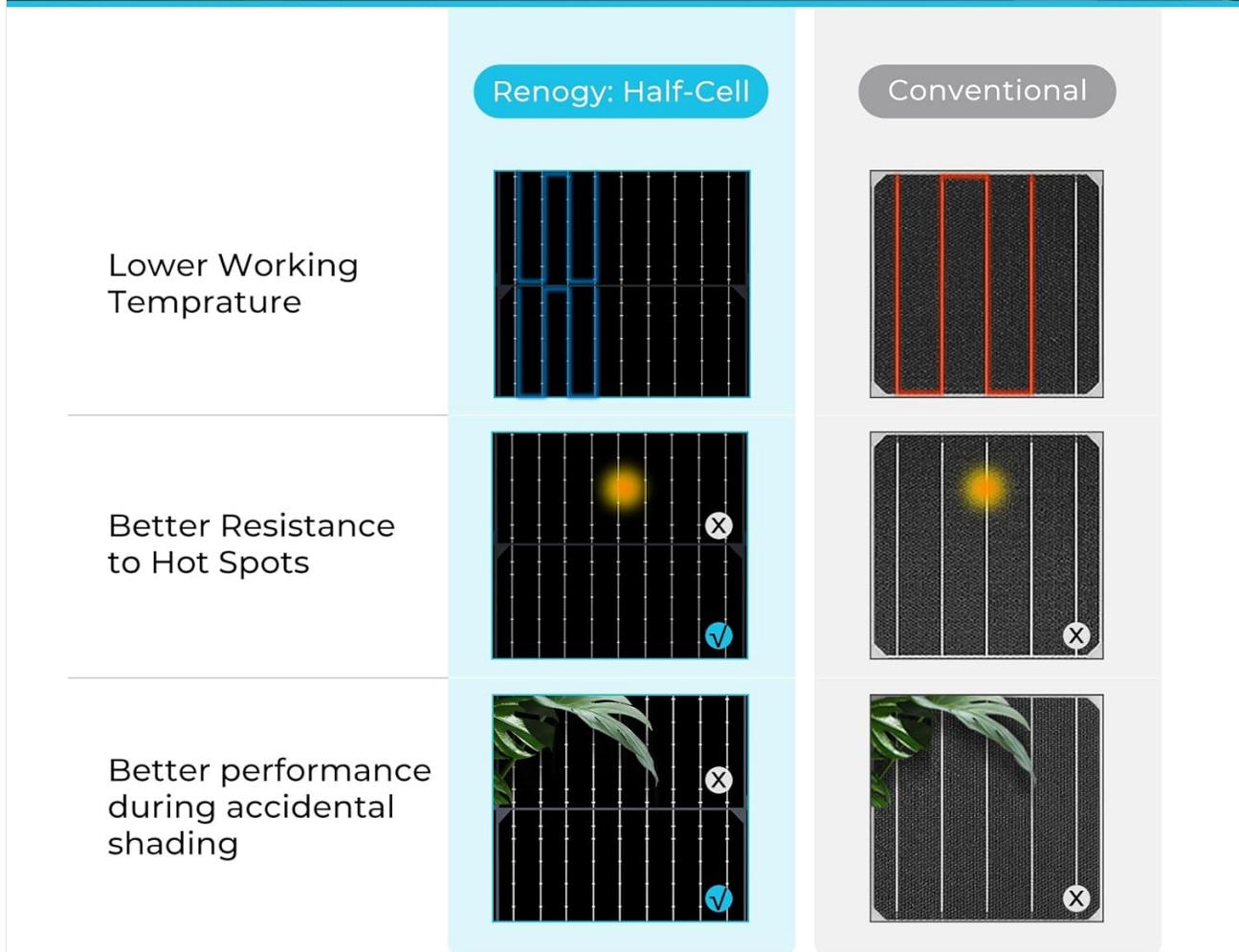
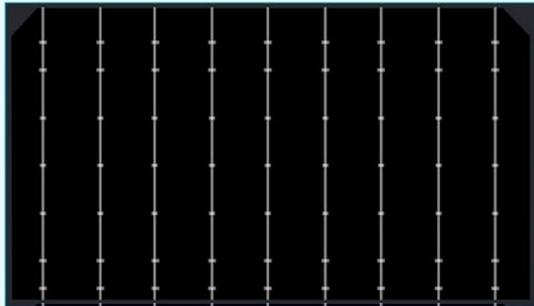


Figure 4: Industry-leading Half-Cell technology for improved performance.

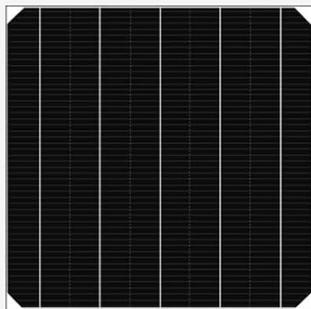
9 BUSBAR TECH



Renogy

PERC Solar Cells
Half-Cell 9 Busbars

VS



Conventional

Ordinary Solar Cells
Whole-Cell 5 Busbars

Figure 5: 9-Busbar technology for enhanced reliability and efficiency.

SETUP AND INSTALLATION

The Renogy 100W Lightweight Flexible Solar Panel is designed for easy installation on various surfaces, including curved ones. Its lightweight and thin profile simplifies handling and mounting.

Physical Installation

The panel features pre-drilled mounting holes for quick and secure attachment. For curved surfaces, the panel can bend within 240 degrees, allowing it to conform to the shape of your RV, boat, or vehicle roof.

DIMENSIONS



Figure 6: Panel dimensions and mounting hole details.

Electrical Connection

The panel comes with 2.3 feet long solar connector cables, ready for integration into your solar power system. Ensure all connections are secure and follow local electrical codes.

Your browser does not support the video tag.

Video 1: Official Renogy overview of the 100W 12V Lightweight Semi-Flex Mono Solar Panel, highlighting its features and flexibility for various applications like RVs and boats.

OPERATING INSTRUCTIONS

Once installed, the Renogy 100W Flexible Solar Panel will begin converting sunlight into electricity. For optimal performance, ensure the panel is exposed to direct sunlight as much as possible. Connect the panel to a compatible charge controller and battery bank to store and utilize the generated power. For detailed system configuration and operation, refer to the manuals of your charge controller and inverter. The panel is designed to work seamlessly with other Renogy components.

MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your solar panel. Keep the surface of the panel clean from dust, dirt, leaves, and other debris. Use a soft cloth and mild, non-abrasive cleaner with water to clean the panel. Avoid harsh chemicals or abrasive materials that could scratch the surface.

Periodically inspect the cables and connections for any signs of wear, corrosion, or damage. Ensure all connections remain tight and secure. The IP67 rated junction box and connectors provide excellent protection against water and dust ingress, but regular checks are still recommended.



RELIABLE AND DURABLE

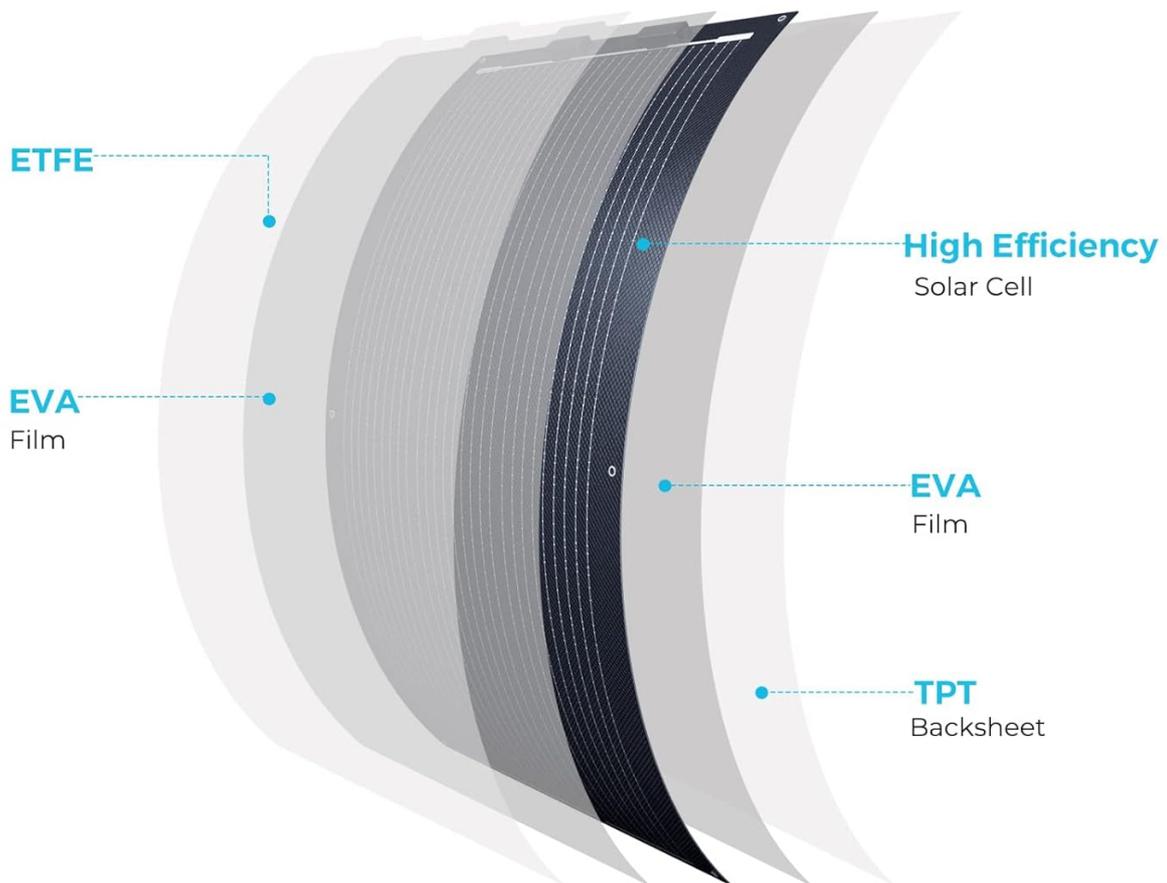


Figure 7: The panel's multi-layered construction ensures reliability and durability.

DIMENSIONS



Figure 8: The panel is built to withstand significant wind and snow loads.

TROUBLESHOOTING

If your solar panel is not performing as expected, consider the following common issues:

- **No Power Output:** Check for shading on the panel. Even partial shading can significantly reduce output. Verify all electrical connections are secure and free of corrosion. Ensure your charge controller and battery are functioning correctly.
- **Low Power Output:** Clean the panel surface. Dust, dirt, and debris can reduce efficiency. Check for proper panel angle and orientation towards the sun. Ensure there are no loose or damaged cables.
- **Panel Overheating:** While designed for high temperatures, ensure adequate airflow around the panel, especially if mounted directly to a surface.

For more complex issues, consult a qualified solar technician or contact Renogy customer support.

SPECIFICATIONS

Attribute	Value
Brand	Renogy
Material	Monocrystalline Silicon
Product Dimensions	43"L x 22.9"W x 0.1"H
Item Weight	5.3 Pounds (2.4 kg)
Efficiency	High Efficiency (22% conversion efficiency)
Connector Type	Solar Connector (MC4 compatible)
Included Components	1 x 100 Watts Semi-Flex Solar Panel
AC Adapter Current	5.29 Amps
Maximum Voltage	12 Volts
Upper Temperature Rating	185 Degrees Fahrenheit (85 Degrees Celsius)
Maximum Power	100 Watts
UPC	810081402354
Item model number	Solar Panel 100W 12V
Country of Origin	Thailand

WARRANTY AND SUPPORT

Renogy products typically come with a manufacturer's warranty. For specific warranty details, registration, and support, please refer to the official Renogy website or the documentation included with your purchase. You can also find additional resources and contact information on the [Renogy Store on Amazon](#). For technical assistance or inquiries, please contact Renogy customer service directly.