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Renogy RNG-100D-SS

Renogy Solar Panel 100 Watt 12 Volt Instruction Manual

Model: RNG-100D-SS | Brand: Renogy

PRODUCT OVERVIEW

The Renogy 100 Watt 12 Volt Monocrystalline Solar Panel is a high-efficiency PV module designed for various off-grid applications, including RVs, marine setups, rooftops, and farms. It provides a reliable power source for charging batteries and other electrical needs.

- **Superior Quality and Material:** Made from 100% EL-tested Grade A+ solar cells, ensuring high power conversion efficiency and prolonged lifespan. Features PERC cells for 22% cell efficiency.
- **Advanced Solar Cell Tech and Panel Structure:** Utilizes 9 Bus-bars cell technology and a Half-cell structure for maximized space usage and reduced current/resistance loss.
- **Built to Last:** All-weather monocrystalline panel with IP65 protection, low iron-tempered glass, corrosion-resistant aluminum frames, and polyamide corner support for durability in various conditions.
- **Fast and Easy Installation:** Equipped with 20 pre-drilled holes for quick mounting, compatible with various Renogy mounting accessories.
- **Compact and Reliable:** Delivers an average of 500Wh of electricity per day. Weighs only 14.1 lbs, making it 8-10% lighter and smaller than conventional rigid solar panels.

SETUP AND INSTALLATION

The Renogy 100 Watt solar panel is designed for straightforward installation, suitable for various off-grid applications. Ensure proper safety precautions are followed during installation.

100% Tested Premium Material

500Wh
of Power Per Day

Grade A+
Cells

A+

22%
High Efficiency

22%

9 BusBars
Half Cell

9BB

*In 5-6 hours of direct sunlight



Figure 1: A person installing the Renogy 100W solar panel on a rooftop, demonstrating its ease of setup.

The panel features 20 pre-drilled holes on its back, allowing for quick and secure mounting. It is directly compatible with Renogy ground mounts, Z Brackets, Corner Brackets, Pole Mounts, and Tilt Mounts. For detailed installation instructions, please refer to the official [Installation Manual \(PDF\)](#)

OPERATING THE SOLAR PANEL

The Renogy 100 Watt Monocrystalline Solar Panel is engineered for high performance and efficiency, converting sunlight into usable electricity for your off-grid power needs.

Compact & Powerful

Weight only 14.1 lbs,
easier and safer to handel.

8-10%

Smaller

compared to
other
100W panels



Figure 2: Illustration highlighting the compact and powerful design of the Renogy 100W solar panel, showing its dimensions and lighter weight compared to other 100W panels.

This panel utilizes advanced 9 Bus-bars cell technology and a Half-cell structure, which optimizes space and reduces energy loss, contributing to its 22% cell efficiency. Under optimal conditions, it can deliver a stable output of approximately 500Wh of electricity per day, based on 5 hours of direct sunlight.

Tougher than You Think

Built to last for its entire lifespan with minimum maintenance.

PA66 GB30
Corner Supports

3.2mm Low-iron
Tempered Glass

Rugged **Aluminum**
Frame

Durable
TBT Backsheet



Figure 3: A detailed view of the solar cells, emphasizing the Grade A+ quality, 22% high efficiency, and 9 Bus-bars Half Cell technology, contributing to 500Wh of power per day.

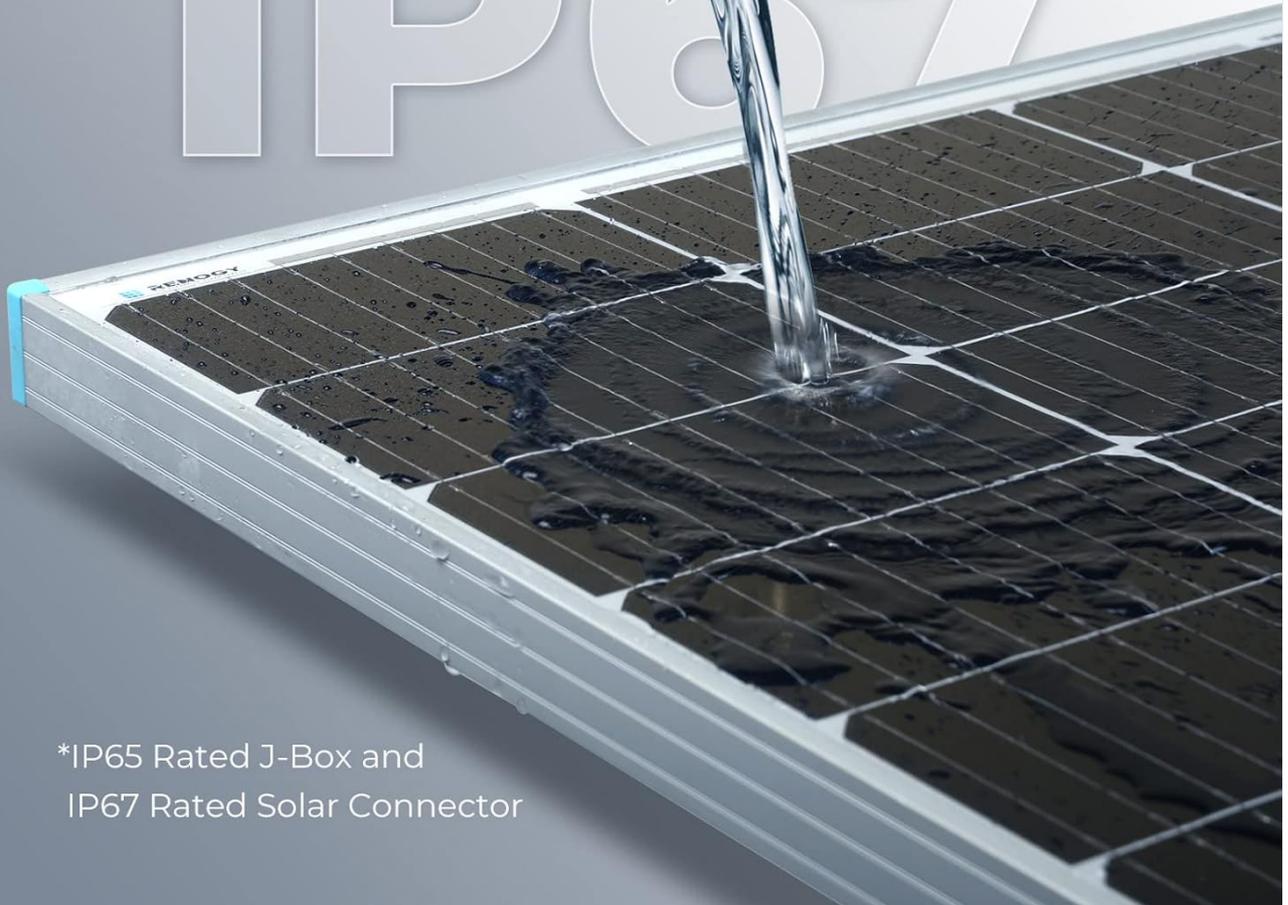
For optimal performance, ensure the panel is positioned to receive maximum direct sunlight throughout the day. Factors such as shading, panel angle, and temperature can affect the actual power output.

MAINTENANCE

The Renogy 100 Watt solar panel is built for long-term durability and minimal maintenance, designed to withstand harsh environmental conditions.

The Perfect All Weather Panel

IP67



*IP65 Rated J-Box and
IP67 Rated Solar Connector

Figure 4: An exploded view diagram illustrating the robust construction of the solar panel, including PA66 GB30 Corner Supports, 3.2mm Low-iron Tempered Glass, Rugged Aluminum Frame, and Durable TBT Backsheet.

The panel features IP65 protection, making it resistant to dust and water jets. Its robust construction, including low iron-tempered glass and corrosion-resistant aluminum frames with polyamide corner support, ensures it can handle snow, rain, and heat for decades.

Easy Setup

Simple to install and fit all roof types.



Figure 5: Visual representation of the panel's IP67 rating, showing water resistance for the solar connectors and IP65 for the junction box, indicating suitability for all weather conditions.

Regularly inspect the panel for any physical damage or debris accumulation. Clean the surface with a soft cloth and water to ensure maximum light absorption. Avoid using abrasive materials or harsh chemicals that could scratch the glass or damage the frame.

Made to Harvest Solar for 25 Years

With **5 Years**
of Material and Workmanship Warranty



Figure 6: The solar panel is depicted in both snowy and sunny environments, highlighting its 25-year lifespan for harvesting solar energy and a 5-year material and workmanship warranty.

TROUBLESHOOTING

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

- **Low Power Output:** Check for shading on the panel surface. Even partial shading can significantly reduce output. Ensure the panel is clean and free of dirt, dust, or debris. Verify that the panel is angled correctly towards the sun for optimal exposure.
- **No Power Output:** Inspect all cable connections (MC4 connectors, junction box wiring) for looseness or corrosion. Check for any visible damage to the panel, cables, or connectors. Ensure your charge controller and battery system are functioning correctly.
- **Battery Not Charging:** Confirm that the solar panel is producing power (use a multimeter if available). Check the charge controller settings to ensure they match your battery type and voltage. Verify battery health and connections.

For more complex issues, consult the detailed [Installation Manual \(PDF\)](#) or contact Renogy customer support.

SPECIFICATIONS

Feature	Detail
Brand	Renogy
Model Number	Renogy Solar Panel 100 Watt
Material	Monocrystalline, Aluminum, Tempered Glass, Tributyl Tin
Product Dimensions	41.8"L x 20.9"W x 1.4"H
Item Weight	14.1 Pounds
Efficiency	18.1%
Connector Type	Solar Connector
Included Components	1x100w solar panel
Maximum Voltage	12 Volts
Maximum Power	100 Watts
Output Voltage	12 Volts
UPC	816360028796

WARRANTY AND SUPPORT

The Renogy 100 Watt 12 Volt Monocrystalline Solar Panel comes with a **5-year material and workmanship warranty**, ensuring peace of mind regarding its quality and durability.

For any questions, technical assistance, or warranty claims, please refer to the following resources:

- Official Installation Manual: [Download PDF](#)
- Certificate of Compliance: [Download PDF](#)
- Visit the Renogy Store for additional products and support: [Renogy Store](#)

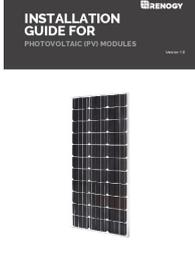
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Related Documents - RNG-100D-SS



[Renogy MTS-ZB Z-Bracket Mounting System Installation Guide](#)

Comprehensive installation guide for the Renogy MTS-ZB Z-Bracket Mounting System, detailing safety precautions, parts identification, step-by-step installation for various surfaces including RV roofs, Z-Bracket dimensions, and compatibility information for Renogy solar modules.

	<p>Renogy MTS-ZB Z-Bracket Mounting System Installation Guide</p> <p>Comprehensive guide for installing the Renogy MTS-ZB Z-Bracket Mounting System for solar panels on RVs, sheds, garages, and other structures. Includes safety instructions, parts identification, installation steps, dimensions, and compatibility information.</p>
	<p>Renogy Solar Panel Installation Guide: PV Modules & Corner Bracket Mounts</p> <p>Comprehensive installation guide for Renogy photovoltaic (PV) modules and the Renogy MTS-CB Corner Bracket Mount. Covers safety, mounting, electrical installation, and maintenance for off-grid and RV applications.</p>
	<p>Renogy MTS-TM100 Flat Roof Tilt Mount Installation and Compatibility Guide</p> <p>Comprehensive guide for the Renogy MTS-TM100 Flat Roof Tilt Mount, covering installation steps, key features, component identification, dimensions, and solar module compatibility. Learn how to securely mount Renogy solar panels on flat roofs.</p>
	<p>Renogy Photovoltaic (PV) Modules Installation Guide</p> <p>Comprehensive installation guide for Renogy Photovoltaic (PV) modules, covering safety, product identification, mounting, electrical connections, and maintenance.</p>
	<p>Renogy Photovoltaic (PV) Module Installation Guide</p> <p>Comprehensive installation guide for Renogy photovoltaic (PV) modules, covering safety, product identification, mounting, electrical connections, testing, and maintenance. Includes model numbers and technical specifications for various Renogy PV modules.</p>