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## Renogy Solar Panel 200 Watt N-Type

# Renogy 200 Watt N-Type Solar Panel Instruction Manual

Model: Solar Panel 200 Watt N-Type

Brand: Renogy

## INTRODUCTION

This manual provides essential information for the safe and efficient use of your Renogy 200 Watt N-Type Solar Panel. Please read these instructions thoroughly before installation and operation to ensure optimal performance and longevity of your product.



### Built for Extreme Durability

Crafted with a durable aluminum alloy frame, it withstands bumps, vibrations, and tough road conditions for long-lasting durability.

Image: Overview of Renogy N-Type Solar Panel features, including 16 busbars, high-temperature performance, durable aluminum frame, 25% cell efficiency, 10-year commitment, reduced size and weight, and IP67 waterproof rating.

## KEY FEATURES

- **High Efficiency:** Features 25% cell efficiency with advanced 16BB cell technology for enhanced energy conversion and reduced microcrack risks.
- **Compact and Lightweight:** Approximately 7.5% smaller and 11.7% lighter than previous models, ideal for space-constrained applications like Class B vans.
- **Dual System Compatibility:** Compatible with both 12V and 24V battery systems, offering flexible installation options.
- **Excellent High-Temperature Performance:** Low temperature coefficient ensures stable performance in hot environments.
- **Durable Construction:** Crafted with low-iron tempered glass, a durable aluminum frame, and IP67-rated solar connectors and IP65 junction box for long-term reliability.
- **Low Degradation:** Exhibits low degradation rates ( $\leq 1\%$  in the first year,  $\leq 0.4\%$  annually thereafter) for sustained power output over its lifespan.



Image: Illustration of N-Type panel technology, showing 25% cell efficiency and the tunneling layer for improved electron transport and collection performance.



Image: Performance comparison of N-Type and P-Type PERC panels in extreme temperatures, demonstrating the N-Type's superior output stability.

## SETUP AND INSTALLATION

The Renogy 200 Watt N-Type Solar Panel is designed for easy integration into various systems, particularly suitable for Class B vans, RVs, marine applications, and off-grid homes.

## Mounting

The panel's compact size (49.7" L x 30.1" W x 1.2" H) and lighter weight (23.4 lbs) facilitate installation in tight spaces. The durable aluminum frame with enhanced corner protection ensures secure mounting.



Image: Visual comparison demonstrating the optimal fit of Renogy N-Type panels on Class B van roofs, maximizing space utilization.

## Wiring and Connections

The panel comes equipped with MC4 connectors for easy connection to a solar charge controller. For power stations with an XT60 input, an appropriate adapter cable (MC4 to XT60) is required.

Your browser does not support the video tag.

Video: An overview of the Renogy 16BB N-Type 200 Watt 24V Solar Panel, showcasing its features and potential applications.



Image: Illustration of the panel's dual system compatibility, allowing seamless integration with both 12V and 24V battery setups.

## OPERATING INSTRUCTIONS

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### Optimal Placement

For maximum power generation, position the solar panel in a location that receives direct sunlight throughout the day. Avoid shaded areas as even partial shading can significantly reduce output.

### Power Monitoring

If connected to a compatible power station or charge controller with a display, monitor the input wattage to ensure the panel is generating power effectively. Adjust the panel's angle or position as needed to optimize sunlight exposure.

## MAINTENANCE

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### Cleaning

Regularly clean the surface of the solar panel to remove dust, dirt, leaves, or other debris that may accumulate and obstruct sunlight. Use a soft cloth and water; avoid abrasive materials or harsh chemicals.

### Connections

Periodically inspect all electrical connections, including MC4 connectors and wiring to the charge controller/power station, to ensure they are secure and free from corrosion or damage.

### Long-Term Storage

For periods of extended non-use (e.g., 1-3 months), the panels can generally remain connected. However, for longer durations (3-9 months), it is recommended to disconnect the batteries and maintain an approximate 80% charge on them. A trickle charge may be beneficial to maintain battery health during prolonged storage.

## TROUBLESHOOTING

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

- **No Power Output:** Check all connections for proper seating and ensure there is no damage to cables or connectors. Verify the panel is receiving direct sunlight and is not shaded.
- **Low Power Output:** Clean the panel surface. Check for partial shading. Ensure the panel is angled optimally towards the sun. Verify the charge controller settings are correct for your battery type.
- **System Incompatibility:** Ensure your power station or charge controller is compatible with the panel's voltage and current specifications.

## SPECIFICATIONS

Attribute	Value
Brand	Renogy
Material	Aluminum, Polycrystalline Silicon, Tempered Glass
Product Dimensions	49.7" L x 30.1" W x 1.2" H
Item Weight	23.4 Pounds
Efficiency	25% High Efficiency
Included Components	One Solar Panel
AC Adapter Current	6.85 Amps
Maximum Voltage	37.44 Volts
Maximum Power	200 Watts
UPC	840315233720
Item model number	Solar Panel 200 Watt N-Type

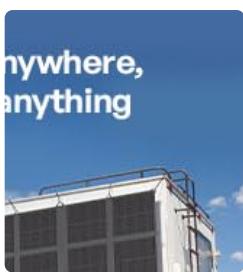
## WARRANTY AND SUPPORT

### Warranty Information

Renogy offers a 10-year commitment on output and material/workmanship for this solar panel, along with a 25-year 80% output guarantee for lasting performance.

### Customer Support

For any technical assistance or inquiries, Renogy provides professional technical guidance and prompt responses. Local warehouses in the US ensure efficient service.



Images: Renogy's commitment to customer support, including 24-hour response, local US warehouses, and professional

technical guidance.