

Go Power GPRV-155

GPRV 160, 160 Watts Solar Charging Kit User Manual

Brand: Go Power | Model: GPRV-155

1. PRODUCT OVERVIEW

The Go Power! GPRV 160 Watts Solar Charging Kit is designed to provide a reliable and efficient solar charging solution for various applications, including RVs, boats, cottages, and cabins. This comprehensive kit features a 160-watt solar panel paired with a 30-ampere Go Power! GP-PWM-30 solar controller. The controller utilizes Pulse Width Modulated (PWM) 4-stage charging technology and includes a digital display for easy monitoring.

This kit is engineered for straightforward installation, offering a complete plug-and-play experience. The included 30-ampere solar controller also allows for future expansion of your solar system, supporting up to 500 watts of solar input with the same wiring and controller.

2. COMPONENTS INCLUDED

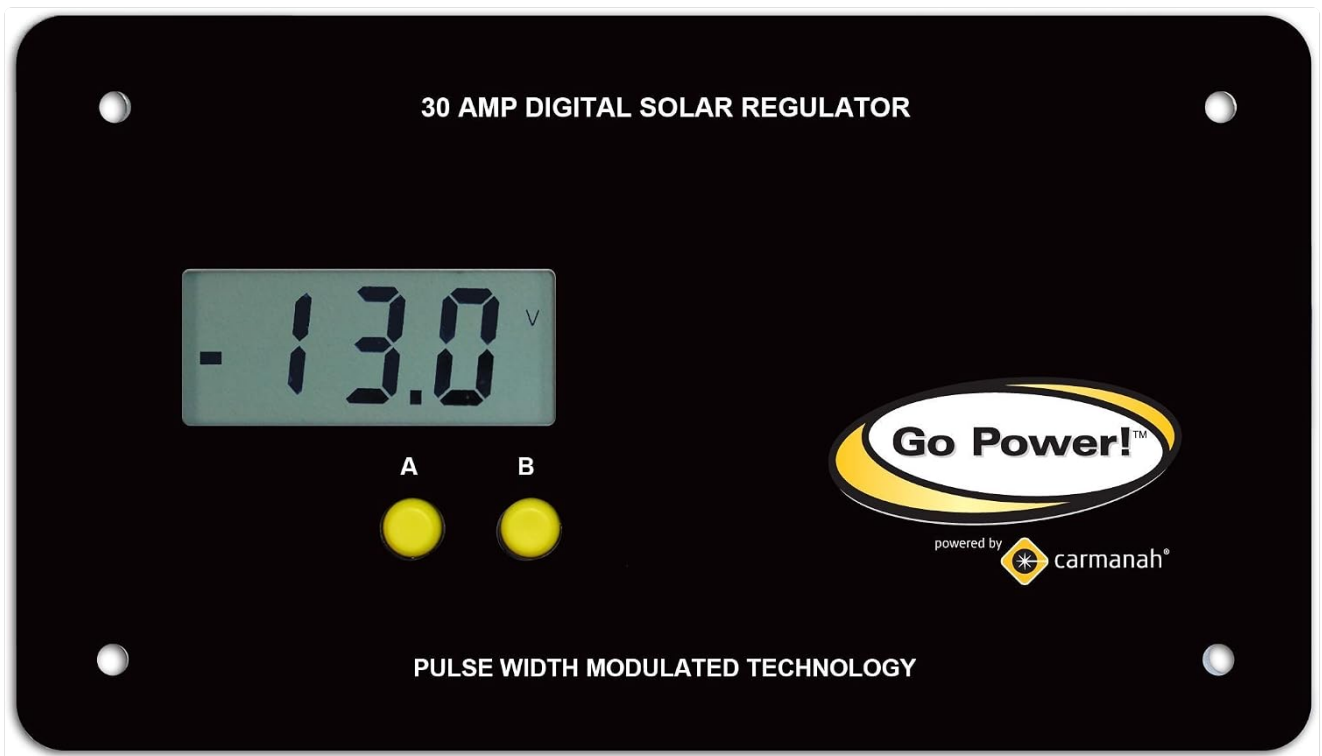
Your Go Power! GPRV 160 Solar Charging Kit includes the following main components:

160-Watt Solar Panel



The primary 160-watt solar panel, designed to convert sunlight into electrical energy.

GP-PWM-30 Solar Charge Controller



A 30-ampere Pulse Width Modulated (PWM) 4-stage solar controller with a digital display for monitoring charging status and battery voltage.

Mounting Hardware



Includes Z-brackets and associated fasteners for securely mounting the solar panel.

MC4 Quick Connect Wires and Accessories



Pre-assembled MC4 quick connect cables, along with cable clamps, zip ties, and ring terminals for a complete wiring solution.

3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your solar charging kit. While the kit is designed for ease of installation, it is recommended to consult a qualified professional if you are unsure about any steps.

General Installation Steps:

1. **Mounting the Solar Panel:** Select a location on your RV, boat, or structure that receives maximum unobstructed sunlight throughout the day. Use the provided mounting hardware to securely fasten the solar panel. Ensure the mounting surface is strong enough to support the panel's weight and withstand environmental conditions.
2. **Installing the Charge Controller:** Mount the GP-PWM-30 solar controller in a dry, well-ventilated area, close to your battery bank. Ensure it is easily accessible for monitoring and adjustments.
3. **Wiring Connections:**

- Connect the solar panel to the controller using the MC4 quick connect wires.
- Connect the controller to your battery bank. Ensure correct polarity (positive to positive, negative to negative).
- For through-roof wiring on RVs, consider using a dedicated cable entry plate (e.g., Go Power! cable entry plate) and appropriate sealants (e.g., Dicor sealant) to ensure a watertight installation.

4. **System Check:** Once all connections are made, verify all wiring is secure and correct. The controller's digital display should show battery voltage and charging status when the panel is exposed to sunlight.

For detailed wiring diagrams and specific instructions, please refer to the full installation guide provided with your product packaging or available on the Go Power! official website.

4. OPERATING INSTRUCTIONS

The Go Power! GPRV 160 Solar Charging Kit operates automatically once properly installed. The GP-PWM-30 solar controller manages the charging process to ensure your batteries are charged efficiently and safely.

Monitoring the System:

- **Digital Display:** The controller's digital display provides real-time information, typically showing battery voltage and charging current. This allows you to monitor the system's performance.
- **Charging Stages:** The 4-stage PWM charging process includes Bulk, Absorption, Float, and Equalization stages, optimizing battery health and lifespan. The controller automatically transitions between these stages based on battery charge level.
- **Battery Protection:** The controller includes features to prevent overcharging and deep discharging, protecting your battery bank.

Ensure the solar panel is exposed to direct sunlight for optimal charging. Shading, even partial, can significantly reduce power output.

5. MAINTENANCE

Regular maintenance helps ensure the long-term efficiency and performance of your Go Power! solar charging kit.

- **Panel Cleaning:** Periodically clean the surface of the solar panel with a soft cloth and mild, non-abrasive cleaner to remove dirt, dust, pollen, and debris. A clean panel ensures maximum sunlight absorption.
- **Inspect Wiring and Connections:** Annually inspect all wiring and connections for signs of wear, corrosion, or looseness. Ensure all terminals are tight and secure.
- **Check Controller Environment:** Ensure the solar charge controller remains in a dry, well-ventilated area, free from excessive dust or moisture.
- **Battery Health:** Regularly check the health of your battery bank, as recommended by the battery manufacturer. Ensure terminals are clean and free of corrosion.

6. TROUBLESHOOTING

If you encounter issues with your solar charging kit, refer to the following common troubleshooting tips:

- **No Charge Indication:**
 - Ensure the solar panel is exposed to direct sunlight and not shaded.
 - Check all wiring connections from the panel to the controller and from the controller to the battery for looseness or corrosion.
 - Verify correct polarity of all connections.
- **Low Charging Output:**
 - Clean the solar panel surface thoroughly.
 - Check for partial shading on the panel.
 - Ensure the battery is not already fully charged; the controller will reduce current as the battery nears full capacity.
- **Controller Display Not Working:**
 - Check the battery connections to the controller. The controller draws power from the battery to operate its display.
 - Ensure the battery voltage is above the minimum operating voltage for the controller.

For more complex issues or if troubleshooting steps do not resolve the problem, please contact Go Power! customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	Go Power
Model Number	GPRV-155
Maximum Power	160 Watts
Maximum Voltage	12 Volts
AC Adapter Current (Controller)	30 Amps
Connector Type	MC4
Item Weight	37.8 pounds
Package Dimensions	61.5 x 28.8 x 4.5 inches
UPC	839085002148

8. WARRANTY AND SUPPORT

Go Power! products are known for their quality and durability. The solar panel included in this kit is backed by a **25-year warranty**, reflecting the manufacturer's confidence in its long-term performance.

For technical support, warranty claims, or additional product information, please visit the official Go Power! website or contact their customer service department. Ensure you have your product model number (GPRV-155) and purchase details ready when seeking support.

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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.

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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