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Apowking R100

Apowking R100 Portable Solar Powered Generator with 40W Solar Panel User Manual

Model: R100

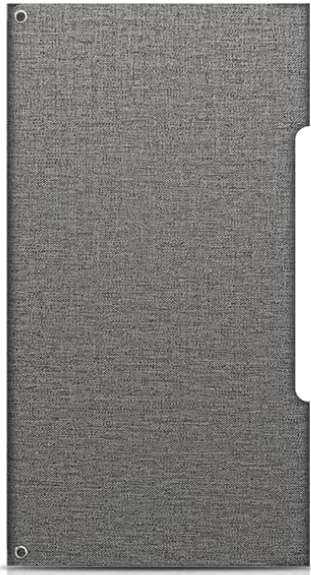
1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Apowking R100 Portable Solar Powered Generator and accompanying 40W Solar Panel. Please read this manual thoroughly before use and retain it for future reference.

2. WHAT'S INCLUDED

Your Apowking R100 package includes the following components:

- 1 x Apowking 146Wh Solar Generator Power Station
- 1 x 40W Foldable Solar Panel
- 1 x AC Power Adapter
- 1 x Car Charging Cable
- 1 x Carport Cable (for output only)
- 2 x User Manual (1 for solar generator, 1 for solar panel)
- 10 x DC Connectors (for solar panel compatibility)



40W Solar Panel



R100 Portable Power Station



Figure 2.1: Apowking R100 Portable Power Station, 40W Solar Panel, and various charging cables and adapters.


3. PRODUCT FEATURES

- **High Capacity & Portability:** 146Wh/39600mAh capacity, weighing only 3.3 lbs, designed for easy transport.
- **Versatile Outputs:**
 - 2 x 110V AC outlets (100W rated, 200W peak)
 - 2 x USB-A (5V/3.1A)
 - 1 x USB-A Quick Charge 3.0 (5V/3A, 9V/2A)
 - 1 x USB-C Quick Charge 3.0 (5V/3A, 9V/2A)
 - 1 x DC 12V output (9-12.6V/10A Max)
- **Integrated Solar Panel:** 40W monocrystalline solar panel with 20.5% conversion efficiency.


- **Multiple Recharging Options:** Can be recharged via solar panel, AC wall adapter, or 12V car outlet.
- **Bright Dual LED Flashlight:** Features three modes: flashlight, strobe, and SOS for emergency situations.
- **Advanced Safety:** Battery Management System (BMS) for voltage and temperature control, ensuring safe operation.

POWER 7 DEVICES


Simultaneously, total ≤ 100W




AC Output
x2




USB-A Output
x3



USB C QC3.0
x1




12V DC Output
x1




146Wh


Capacity




Phone(11Wh)
11 times



Laptop(60Wh)
2 times



Light(10W)
13 hours



Mini Cooler(60W)
2 hours

Figure 3.1: The Apowking R100 Power Station with its various output ports and 146Wh capacity.

3 RECHARGE WAY

power up at ease



Solar Panel



Socket



12 Car Outlet



Figure 3.2: Three methods for recharging the Apowking R100: solar panel, standard wall socket, and 12V car outlet.

4. SETUP

4.1 Initial Charging

Before first use, fully charge the Apowking R100 Power Station using the provided AC power adapter. Plug the adapter into a standard wall outlet and connect it to the "INPUT" port on the power station. The digital display will show the

charging progress.

4.2 Solar Panel Setup

1. Unfold the 40W solar panel completely.
2. Locate the integrated kickstand on the back of the solar panel and use it to prop the panel up.
3. Position the solar panel in direct sunlight for optimal charging. Adjust the angle periodically to follow the sun's path.
4. Connect the solar panel to the "INPUT" port on the Apowking R100 Power Station using the appropriate DC connector cable.



Figure 4.1: The Apowking R100 Power Station and its 40W foldable solar panel in an unfolded state, ready for use.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Press and hold the main power button on the front of the unit to turn the power station on or off. The digital display will illuminate when the unit is active.

5.2 Using AC Outlets

To use the 110V AC outlets, press the "AC" button on the front panel. The AC indicator on the display will light up. Plug your devices (up to 100W continuous, 200W peak) into the AC outlets. Remember to turn off the AC output when not in use to conserve battery.

5.3 Using USB and DC Outputs

The USB-A, USB-C, and 12V DC outputs are typically active once the unit is powered on. Simply plug your compatible devices into the respective ports. The Quick Charge ports provide faster charging for supported devices.

5.4 LED Flashlight Operation

The Apowking R100 features dual LED flashlights on the side and a larger LED panel on the front. To activate the side flashlights, press the dedicated flashlight button. Press again to cycle through modes (flashlight, strobe, SOS). To activate the front LED panel, press its dedicated button. Press again to cycle through its modes.

SUPER BRIGHT LED

with 3 modes, for any situation

SOS

SOS



Strobe



Flashlight



Figure 5.1: The Apowking R100 Power Station demonstrating its bright dual LED flashlight feature.

5.5 Charging Devices with Solar Panel (Standalone)

The 40W solar panel can also charge smaller USB devices directly. Unzip the pouch on the solar panel to reveal USB-A and USB-C ports. Connect your devices directly to these ports while the solar panel is exposed to sunlight.

6. MAINTENANCE

- **Storage:** Store the power station and solar panel in a cool, dry place away from direct sunlight when not in use.
- **Cleaning:** Wipe the unit and solar panel with a dry, soft cloth. Do not use abrasive cleaners or immerse in water.
- **Battery Care:** For optimal battery life, fully charge the unit every 3-6 months, even if not in regular use. Avoid completely draining the battery for extended periods.
- **Temperature:** Do not expose the unit to extreme temperatures (hot or cold) for prolonged periods. The internal cooling vents help maintain optimal operating temperature.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit not turning on	Low battery charge	Charge the power station using the AC adapter, car charger, or solar panel.
AC output not working	AC output not activated; device exceeds 100W rated power; low battery	Press the "AC" button to activate. Check device wattage. Recharge the power station.
Solar panel not charging	Insufficient sunlight; incorrect connection; panel obstructed	Ensure direct sunlight exposure. Verify cable connections. Remove any obstructions.
USB/DC outputs not working	Unit not powered on; low battery	Ensure the power station is turned on. Recharge the power station.

8. SPECIFICATIONS

- **Model:** R100
- **Battery Capacity:** 146Wh / 39600mAh
- **AC Output:** 2 x 110V, 100W Rated (200W Peak)
- **DC Output:** 1 x 12V/10A (Max)
- **USB-A Output:** 2 x 5V/3.1A, 1 x QC3.0 (5V/3A, 9V/2A)
- **USB-C Output:** 1 x QC3.0 (5V/3A, 9V/2A)
- **Solar Panel Power:** 40W
- **Solar Panel Efficiency:** 20.5% (monocrystalline)
- **Weight:** 3.3 lbs
- **Dimensions:** 7.6 x 3.7 x 6.1 inches
- **Battery Type:** Lithium Ion
- **Special Features:** Automatic Shut Down, Automatic Voltage Regulation, Digital Display, Dual LED Flashlight (Flashlight, Strobe, SOS modes), Portable.

9. WARRANTY AND SUPPORT

The Apowking R100 Solar Powered Generator and 40W Solar Panel are covered by a **12-month warranty** from the date of purchase. For any questions, technical support, or warranty claims, please contact Apowking Customer Service.

Quality Service: 1 Year

Returns: 30 Days Worry-Free Return

Customer Service: 7*24 Hours

Technical Support: Lifetime



Figure 9.1: Apowking Customer Service is available to assist with any product inquiries.