

Renogy Phoenix Elite Portable Solar Generator

Renogy Phoenix Elite Portable Solar Generator 300Wh Instruction Manual

Model: Phoenix Elite Portable Solar Generator

1. INTRODUCTION

The Renogy Phoenix Elite Portable Solar Generator is an all-in-one solar power system designed for off-grid applications. It features a 300Wh rechargeable lithium-ion battery pack, integrated 20W monocrystalline solar panels, and multiple output ports for various devices. This manual provides essential information for the safe and efficient use of your Phoenix Elite.

2. PRODUCT OVERVIEW

The Phoenix Elite is engineered for convenience and versatility, offering a reliable power source in a compact, briefcase-style design. Key features include:

- **Portable Design:** Features a sturdy carrying handle for easy transport, ideal for travel or emergencies.
- **Integrated Solar Panels:** Two highly efficient 10W monocrystalline solar panels are built-in for effortless battery charging.
- **Diverse Recharging Options:** Supports recharging via car sockets, AC adapters, USB-C wall chargers, and external solar panels.
- **Reliable Power Source:** Equipped with a 300Wh lithium-ion battery and multiple output ports for mobile devices and small appliances.

BRIEFCASE DESIGN



Figure 2.1: The Renogy Phoenix Elite Portable Solar Generator showcasing its briefcase design and portability.

3. SAFETY INSTRUCTIONS

To ensure safe operation and prolong the lifespan of your Renogy Phoenix Elite, please observe the following safety precautions:

- Do not expose the unit to fire or extreme temperatures.
- Avoid contact with water or other liquids.
- Do not disassemble, repair, or modify the unit. Contact authorized service personnel for assistance.
- Keep out of reach of children.
- Ensure proper ventilation during use and charging to prevent overheating.
- Use only approved accessories and charging cables.

- Do not operate if the unit is damaged.

4. SETUP

Upon receiving your Phoenix Elite, perform the following steps:

1. **Unboxing:** Carefully remove the unit and all accessories from the packaging.
2. **Inspection:** Check for any visible damage. If damage is found, do not use the unit and contact customer support.
3. **Initial Charge:** It is recommended to fully charge the Phoenix Elite before first use. Connect the unit to an AC outlet using the provided AC/DC adapter until the battery indicator shows 100%.

5. OPERATION

Operating the Phoenix Elite is straightforward:

- **Power On/Off:** Press and hold the main power button to turn the unit on or off.
- **AC Output:** To use the AC outlets, press the "AC" button. The AC indicator on the LCD screen will illuminate. Ensure your device's power consumption does not exceed the unit's maximum output.
- **DC Output:** To use the DC output ports (including USB, USB-C, and CIG port), press the "DC" button. The DC indicator on the LCD screen will illuminate.
- **Connecting Devices:** Plug your devices into the appropriate ports. The unit will automatically detect and begin charging/powering compatible devices.

Your browser does not support the video tag.

Video 5.1: An overview of the Renogy Phoenix Elite Portable Solar Generator, demonstrating its use in various scenarios.

6. RECHARGING OPTIONS

The Phoenix Elite offers multiple ways to recharge its internal battery:

- **Built-in Solar Panels (20W):** Open the unit to expose the integrated solar panels to direct sunlight. Charging time is approximately 20 hours under optimal conditions.
- **External Solar Panel (up to 100W):** Connect an external solar panel (sold separately) to the DC input port. This can reduce charging time significantly, for example, an additional 100W panel can charge the unit in about 4 hours. Using both built-in and external panels (120W total) can achieve a full charge in approximately 3.5 hours.
- **AC Adapter (55W):** Connect the provided AC/DC adapter to a wall outlet. Charging time is approximately 6 hours.
- **USB-C Wall Charger (60W):** Use a compatible USB-C wall charger. Charging time is approximately 6 hours.
- **Car Socket (55W):** Use the provided Cigarette Lighter Plug to 5.5mm DC Adapter Cable to charge from your vehicle's 12V car socket. Charging time is approximately 6 hours.

EXPANDABLE SOLAR RECHARGE CAPABILITY



20 Hours

Built-in Solar Panel (20W)



4 Hours

External Solar Panel (100W)



3.5 Hours

Built-in and External Solar Panels (120W)

Figure 6.1: Expandable solar recharge capability, showing charging times with built-in and external solar panels.

DIVERSE RECHARGING OPTIONS



3 Hours
AC Adapter and USB-C Wall
Charger (115W)



6 Hours
USB-C Wall Charger (60W)



6 Hours
AC Adapter (55W)



6 Hours
Car Socket (55W)

Figure 6.2: Diverse recharging options for the Phoenix Elite, including AC, USB-C, and car charging.

7. OUTPUT PORTS

The Phoenix Elite provides a variety of output ports to power different devices:

- **USB-A Ports / QC USB-A Ports:** For charging smartphones, tablets, action cameras, and other USB-powered devices.
- **USB-C PD Ports:** Power laptops, DSLR cameras, and handheld game consoles with Power Delivery capabilities.
- **CIG Port:** Suitable for devices like portable refrigerators, car vacuums, and CPAP machines.
- **DC Output Ports:** Ideal for routers and lamps.
- **AC Outlets:** Standard household outlets for powering TVs and portable projectors.

RELIABLE POWER SOURCE

USB-A Ports / QC USB-A Ports



Smart Phone



Tablet



Action Camera

USB-C PD Ports



Laptop



DSLR Camera



Handheld
Game Console

CIG Port



Portable
Refrigerator



Car Vacuum



CPAP Machine

DC Output Ports



Router



Lamp

AC Outlets



TV



Portable Projector



Figure 7.1: Reliable power source with various output ports for different devices.

8. EMERGENCY LED FLASHLIGHT

The Phoenix Elite includes a built-in LED flashlight for emergency situations or low-light conditions. It offers three modes:

- **Bright:** Provides maximum illumination.
- **Dim:** For extended use or less intense lighting needs.
- **SOS:** Flashes an SOS signal for emergency signaling.

EMERGENCY LED FLASHLIGHT



Bright



Dim



SOS

Figure 8.1: Emergency LED flashlight with multiple modes.

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Video 8.2: Demonstrating the Renogy Phoenix Elite's utility in emergency situations.

9. LCD SCREEN DISPLAY

The straightforward LCD screen provides real-time information about the unit's status:

- **Battery Level:** Indicates the current charge percentage of the internal battery.
- **Input Power:** Shows the wattage being received during charging (e.g., from solar panels or AC adapter).
- **Output Power:** Displays the wattage being drawn by connected devices.
- **AC Output Mode:** Indicates when AC power is active.
- **DC Output Mode:** Indicates when DC power is active.
- **Error Code:** Displays specific codes if an issue occurs, such as "E03" for battery imbalance. Refer to the troubleshooting section for details.

- **Built-in Solar Panel Input:** Visual indicator for solar charging activity.

STRAIGHTFORWARD LCD SCREEN



Figure 9.1: Straightforward LCD screen displaying operational information.

10. MAINTENANCE

Regular maintenance ensures optimal performance and longevity:

- **Cleaning:** Wipe the unit with a dry, soft cloth. Do not use abrasive cleaners or solvents. Keep the solar panels clean for efficient charging.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to approximately 50-80% every 3-6 months to maintain battery health.
- **Battery Care:** Avoid fully discharging the battery frequently. Regular partial discharges and recharges are healthier for lithium-ion batteries.

11. TROUBLESHOOTING

If you encounter issues with your Phoenix Elite, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on.	Battery is fully discharged or power button not held long enough.	Charge the unit using an AC adapter. Press and hold the power button for 3-5 seconds.
Solar charging is slow or not working.	Insufficient sunlight, dirty solar panels, or incorrect panel angle.	Ensure panels are in direct sunlight and clean. Adjust angle for maximum sun exposure. Check connections for external panels.
Error Code E03 displayed.	Battery imbalance or internal fault.	Try restarting the unit. If the error persists, contact Renogy customer support.
AC/DC output not working.	Output mode not activated or device draws too much power.	Press the respective AC or DC button to activate. Check device power requirements against unit specifications.

For issues not listed here or if problems persist, please contact Renogy customer support.

12. SPECIFICATIONS

Feature	Detail
Brand	Renogy
Model Name	Power Station 300Wh
Model Number	Phoenix Elite Portable Solar Generator
Battery Capacity	300Wh Lithium-ion
Built-in Solar Panel Wattage	20 Watts (2 x 10W monocrystalline)
Max External Solar Input	100 Watts
AC Output	1200 Watts (Starting Wattage)
DC Output	12 Volts
Item Weight	11.7 Pounds
Material Type	ABS+PC
Total Power Outlets	3 (AC) + USB/USB-C/CIG/DC Out

13. WARRANTY AND SUPPORT

For warranty information, product registration, or technical support, please visit the official Renogy website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.
Note: Warranty terms may vary based on purchase location and retailer. Please consult your specific purchase documentation for details.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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