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› DaranEner Portable Power Station NEO 600W 576Wh User Manual

DaranEner NEO

DaranEner Portable Power Station NEO 600W 576Wh User Manual

Model: NEO | Brand: DaranEner

1. INTRODUCTION AND OVERVIEW

The DaranEner Portable Power Station NEO is a versatile and reliable power solution designed for various applications, including camping, RV travel, power outages, and emergency backup. Featuring a robust 576Wh LiFePO4 battery and a 600W continuous output (1200W surge), this power station ensures your essential devices remain powered wherever you are. Its compact and lightweight design, combined with multiple charging options, makes it an indispensable tool for both indoor and outdoor use.



Figure 1: DaranEner Portable Power Station NEO with integrated solar panel.

2. PACKAGE CONTENTS

Upon unboxing your DaranEner Portable Power Station NEO, please verify that all the following items are included:

- DaranEner Portable Power Station NEO (600W 576Wh)
- 100W Solar Panel
- AC Charging Cable
- DC5521 Cable
- User Manual (this document)

Packing List



Figure 2: All items included in the DaranEner Portable Power Station NEO package.

3. PRODUCT FEATURES

3.1 Output Ports

The DaranEner NEO is equipped with multiple output ports to power a wide range of devices simultaneously:

- **3 x AC Outlets:** Provides 600W total continuous output (1200W surge) for standard household appliances.
- **1 x USB-C PD:** Delivers up to 100W Power Delivery for fast charging compatible laptops, smartphones, and tablets.
- **2 x USB-A Ports:** Each port provides 18W output for charging various USB-powered devices.
- **1 x 120W Car Outlet:** Ideal for powering car appliances like mini-fridges or air pumps.
- **DC Ports:** Additional DC outputs for specific devices.

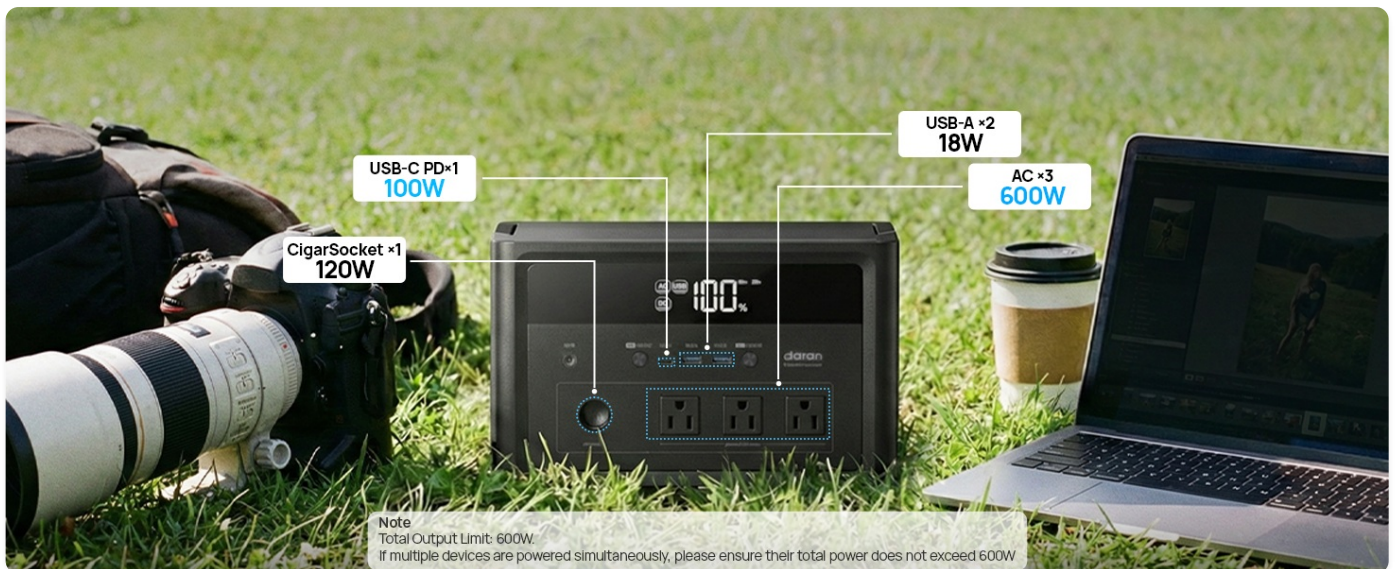


Figure 3: Front panel showing all available output ports.

3.2 LiFePO4 Battery Technology

The DaranEner NEO is powered by a 576Wh LiFePO4 (Lithium Iron Phosphate) battery, offering superior performance and longevity:

- **Extended Lifespan:** Rated for 3500+ life cycles, providing up to 10 years of dependable use.
- **Enhanced Safety:** LiFePO4 batteries offer better thermal stability and long-term safety compared to traditional lithium-ion batteries, making them suitable for indoor and overnight use.

- **Battery Management System (BMS):** Integrated BMS protects against overcharge, over-discharge, over-current, and short-circuiting.



Figure 4: Illustration of the durable LiFePO4 battery with extended cycle life.

3.3 Built-in LED Light

An integrated LED flashlight is located on the rear of the unit, providing reliable illumination and emergency signaling:

- **4 Modes:** Includes 100% brightness, 50% brightness, Strobe, and SOS for various situations.
- **Emergency Use:** Essential for nighttime outages, camping, or roadside emergencies.

10-Year Lifespan LFP Battery

3500 cycles to 80%+ capacity



LFP
battery



3000+
cycles



Battery
Management
System

3500+ CYCLES



Figure 5: Rear view of the power station showing the illuminated LED light.

4. SETUP AND CHARGING

The DaranEner NEO offers flexible charging options to ensure it's always ready for use:

- **AC Wall Outlet:** Recharge via the 130W AC input using the included AC Charging Cable. A full charge takes approximately 4.7 hours.

- **Solar Panel:** Connect the included 100W solar panel for clean, renewable energy. Under strong sunlight, the unit can be fully recharged in about 6-7 hours.
- **Car Charger:** Utilize the 120W car outlet for convenient charging on the go.



Figure 6: Visual representation of the three primary charging methods.

Initial Use Recommendation:

For optimal performance and battery health, it is recommended to complete two full charge and discharge cycles after receiving the unit.

5. OPERATING INSTRUCTIONS

To operate your DaranEner NEO, follow these simple steps:

1. **Power On/Off:** Press and hold the main power button (usually located near the display) for a few seconds to turn the unit on or off. The LCD display will illuminate.
2. **Activate Outputs:** Press the dedicated buttons for AC, DC, or USB outputs to activate them. A small indicator light will confirm activation.
3. **Connect Devices:** Plug your devices into the appropriate output ports. The LCD display will show the current power consumption.
4. **Monitor Display:** The LCD screen provides real-time information on battery level, input/output wattage, and active ports.
5. **LED Light Operation:** Press the LED button on the rear of the unit to cycle through the light modes (100%, 50%, Strobe, SOS).

6. USAGE SCENARIOS

The DaranEner NEO is designed to power a variety of devices for extended periods:

- **Camping & RV:** Power a 60W mini fridge for 8-9 hours, or charge laptops, phones, and drones.
- **Emergency Backup:** Keep essential home devices running during power outages, such as CPAP machines for 7-8 hours, routers, and lights.
- **Work & Hobbies:** Charge cameras, laptops, and other electronic equipment for outdoor photography or remote work.

Power Your Needs

576Wh capacity, 600W AC output



Figure 7: Powering devices during a camping trip.

7-Port Fast Charging Devices



AC x3
(600W)



CigarSocket x1
(120W)



USB-C PD x1
(100W)



USB-A x2
(18W)



Note: When multiple ports are used simultaneously, total output limited to 600W.

Figure 8: Charging multiple devices including a mini-fridge and drone.

7. SAFETY INFORMATION

To ensure safe operation and prolong the lifespan of your DaranEner NEO, please observe the following:

- **Total Load Limit:** Do not exceed the total connected load of 600W for optimal performance and to prevent overload.
- **Ventilation:** Ensure adequate ventilation around the unit during operation to prevent overheating.

- **Storage:** Store the unit in a cool, dry place away from direct sunlight, heat sources, and flammable materials.
- **Water Exposure:** Avoid exposing the unit to water or excessive moisture.
- **Children and Pets:** Keep the device out of reach of children and pets.
- **Disassembly:** Do not attempt to disassemble, repair, or modify the unit. Contact authorized service personnel for assistance.

8. MAINTENANCE

Proper maintenance ensures the longevity and performance of your power station:

- **Regular Recharging:** If the device will not be used for an extended period, recharge it once every 1-2 months to maintain battery health.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.
- **Storage Temperature:** Store the unit within the recommended temperature range specified in the specifications.

9. TROUBLESHOOTING

If you encounter issues with your DaranEner NEO, consider the following:

- **No Power Output:** Ensure the unit is powered on and the specific output ports (AC/DC/USB) are activated. Check the battery level on the LCD display.
- **Device Not Charging:** Verify that your device is compatible with the selected output port and that the cable is securely connected. Ensure the total load does not exceed 600W.
- **Overload Indication:** If an overload warning appears, disconnect some devices to reduce the total power draw.
- **Unusual Noise:** The cooling fan may operate during high power output or charging. This is normal. If the fan noise is excessively loud or unusual, contact customer support.

10. SPECIFICATIONS

Feature	Specification
Model Number	NEO
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Battery Capacity	576Wh
AC Output	600W (Continuous), 1200W (Surge)
USB-C PD Output	100W
USB-A Output	2 x 18W
Car Outlet Output	120W
AC Input (Charging)	130W
Solar Input (Charging)	100W (with included solar panel)
Dimensions	11.1 × 7.83 × 7.52 inches
Weight	13.67 lb
Material	Acrylonitrile Butadiene Styrene (ABS)

Manufacturer	Dongguan Menche Electronics Co., Ltd
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11. WARRANTY AND SUPPORT

DaranEner is committed to providing reliable products and excellent customer service.

- **Warranty:** This product may be eligible for an extended protection plan. Please refer to your purchase documentation for details.
- **Customer Support:** For any questions or technical assistance, please contact DaranEner customer support. Our team aims to respond within 24 hours to ensure a worry-free experience.

Contact information can typically be found on the official DaranEner website or through your retailer.

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