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› DaranEner Portable Power Station NEO300L (288Wh-350W) User Manual

DaranEner NEO300L

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1. INTRODUCTION

Thank you for choosing the DaranEner Portable Power Station NEO300L. This device is a versatile and reliable power solution designed for various applications, including home backup, outdoor activities like camping and RV trips, and emergency power needs. It features a 288Wh LiFePO4 battery, providing 350W (600W surge) pure sine wave AC output. This manual provides essential information for safe and efficient operation.

Package Contents:

- DaranEner Portable Power Station NEO300L
- AC Charging Cable
- Car Charging Cable
- User Manual



Image 1.1: Front view of the DaranEner Portable Power Station NEO300L, showcasing its display and various ports.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before using the power station. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Do not place the unit near fire or expose it to direct heat.
- Do not use or store the unit in a bathroom or in areas exposed to water or rain.
- Do not use or store the unit in high temperatures or direct sunlight.
- Keep out of reach of children and pets.
- Use only original or certified charging cables and adapters.
- Ensure proper ventilation during use and charging.
- Avoid dropping, hitting, or subjecting the unit to strong impacts.
- If the unit emits an unusual odor, generates heat, or shows any other abnormality, discontinue use immediately and contact customer support.

3. PRODUCT OVERVIEW

The DaranEner NEO300L features multiple input and output ports, along with a clear digital display for monitoring its status.

Port Layout:

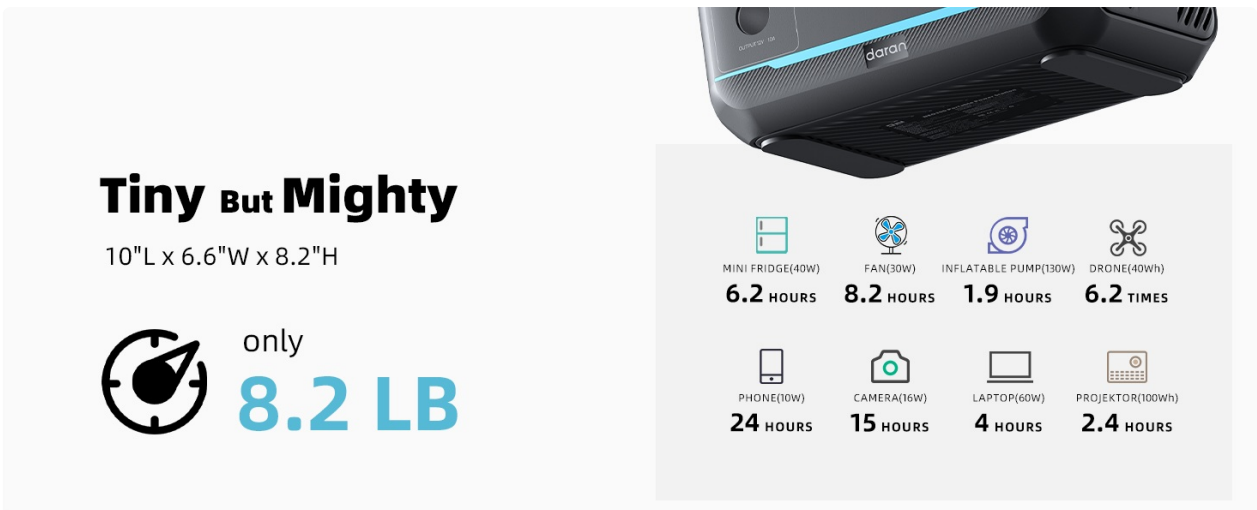


Image 3.1: Diagram illustrating the various input and output ports on the DaranEner NEO300L.

- **AC Output Ports:** Two 110V Pure Sine Wave AC outlets (350W continuous, 600W surge).
- **USB-C Port:** One PD60W port for fast charging compatible devices.
- **USB-A Ports:** Two 18W USB-A ports.
- **DC Input:** For charging the power station via AC adapter, solar panel, or car charger.
- **DC Output:** One 12V/5A DC output.

Digital Display:

The integrated LED screen provides real-time information about the power station's status.



Image 3.2: Close-up of the LED display, showing indicators for battery level, input/output wattage, and various status icons.

- **Battery Level Indicator:** Shows the remaining battery percentage.
- **Input/Output Wattage:** Displays current power draw or charging input.
- **Status Icons:** Indicators for AC, DC, USB, LED light, frequency, voltage, and warning alerts (e.g., hypothermia, hyperthermia, alarm).

4. SETUP

Before first use, fully charge the power station.

Charging the Power Station:

The NEO300L supports three charging methods:

1. AC Wall Outlet Charging:

Connect the provided AC charging cable to the DC input port on the power station and then to a standard wall outlet. The unit supports 90W AC input and can be fully charged in approximately 3.4 hours.



Image 4.1: The power station connected to an AC wall outlet for charging.

2. Solar Panel Charging:

Connect a compatible solar panel (not included) to the DC input port. The power station supports up to 40W solar input and can be fully charged in approximately 8 hours under optimal sunlight conditions. Ensure the solar panel is placed in direct sunlight for maximum efficiency.



Image 4.2: The power station being charged by a solar panel in an outdoor setting.

3. Car Charging:

Use the provided car charging cable to connect the power station to your vehicle's 12V cigarette lighter socket. This method supports up to 100W input and can fully charge the unit in approximately 3 hours.

Get Ready Faster and Effortless

Intelligent fast-charging technology is at the heart of it, so say goodbye to bulky adapters and be ready to travel in **3.4 hours**.



AC Input
90W



Image 4.3: The power station charging inside a car using the cigarette lighter adapter.

5. OPERATING INSTRUCTIONS

To use the DaranEner NEO300L, follow these steps:

Powering On/Off:

- Press and hold the main power button for a few seconds to turn the unit on or off. The digital display will illuminate.

Using AC Output:

- Press the 'AC ON/OFF' button to activate the AC outlets. The AC icon will appear on the display.
- Plug your AC-powered devices into the 110V outlets.
- Ensure the total power consumption of your devices does not exceed 350W (or 600W surge).
- Press the 'AC ON/OFF' button again to turn off the AC outlets when not in use.

Using DC Output:

- Press the 'DC ON/OFF' button to activate the DC output port. The DC icon will appear on the display.
- Connect your 12V DC devices to the DC output port.
- Press the 'DC ON/OFF' button again to turn off the DC output when not in use.

Using USB Output:

- The USB-C and USB-A ports are typically active when the unit is powered on.
- Connect your USB-powered devices for charging.
- The display will show the output wattage for USB devices.

LED Light Function:

- Press the dedicated LED light button to turn on the flashlight.
- Press repeatedly to cycle through 4 brightness levels and an SOS mode.
- Press and hold to turn off the LED light.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your power station.

- **Storage:** Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Charging Frequency:** For optimal battery health, fully charge the unit every 3-6 months, even if not in use.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive materials.
- **Battery Care:** The LiFePO4 battery is designed for over 3500 charge cycles. Avoid completely draining the battery frequently to extend its lifespan.

7. TROUBLESHOOTING

If you encounter issues with your DaranEner NEO300L, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	Battery is depleted	Charge the power station using an AC adapter, solar panel, or car charger.
AC output not working	AC output not activated Overload protection triggered Device power consumption too high	Press the 'AC ON/OFF' button. Reduce the number of connected devices or use lower-wattage devices. Ensure total wattage is below 350W (600W surge).
Unit is not charging	Charging cable not properly connected Charging source issue Over-temperature protection	Check all cable connections. Verify the wall outlet, solar panel, or car charger is functioning. Move the unit to a cooler environment.
Display shows an error icon	Overload, over-temperature, or other fault	Refer to the manual's error code section (if available) or contact customer support. Disconnect devices and restart the unit.

If the problem persists after attempting these solutions, please contact DaranEner customer support.

8. SPECIFICATIONS

Detailed technical specifications for the DaranEner Portable Power Station NEO300L:

Feature	Specification
Model Name	NEO300L
Battery Type	LiFePO4 (Lithium-Phosphate)
Capacity	288Wh (equivalent to 90,000mAh, 3.2V)

Feature	Specification
AC Output	2 x 110V Pure Sine Wave, 350W (600W Surge)
USB-C Output	1 x PD60W
USB-A Output	2 x 18W
DC Output	1 x 12V/5A
AC Input (Charging)	90W (approx. 3.4 hours to full charge)
Solar Input (Charging)	Max 40W (approx. 8 hours to full charge)
Car Input (Charging)	Max 100W (approx. 3 hours to full charge)
Dimensions (L x W x H)	10.08" x 6.57" x 8.19"
Weight	6.2 Pounds
Operating Temperature	Refer to product labeling for specific range
Material	ABS



Image 8.1: Diagram showing the dimensions of the DaranEner Portable Power Station NEO300L.

9. WARRANTY AND SUPPORT

DaranEner provides a warranty for this product. Please refer to the warranty card included with your purchase

for specific terms and conditions. The product typically includes a 2-year warranty.

Customer Support:

If you have any questions, require technical assistance, or need to claim warranty service, please contact DaranEner customer support. Our team is committed to providing prompt assistance.

- **Contact Information:** Refer to the contact details provided in your product packaging or visit the official DaranEner website.
- **Response Time:** DaranEner aims to respond to inquiries within 24 hours.



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TECHWALLS

Image 9.1: A DaranEner customer service representative ready to assist with product inquiries.