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DaranEner NEO300 Pro

DaranEner NEO300 Pro Portable Power Station

USER MANUAL

1. Introduction

Thank you for choosing the DaranEner NEO300 Pro Portable Power Station. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your device. Please read this manual thoroughly before use and retain it for future reference.

The DaranEner NEO300 Pro is a versatile portable power station designed to provide reliable power for various applications, including outdoor activities, home backup, and emergencies. It features a 299Wh LiFePO4 battery, 600W AC output, and multiple charging options.

Safety Information

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire, water, and extreme temperatures.
- Ensure proper ventilation during use and charging.
- Use only approved accessories and charging cables.
- Keep out of reach of children.

2. Product Overview

The DaranEner NEO300 Pro is equipped with various ports and a clear display to monitor its status. Below is an overview of the unit's components.



Figure 2.1: DaranEner NEO300 Pro Portable Power Station, angled view.

7-IN-1 POWER STATION

Great Option for Camping



1 * AC



1 * Car socket



2 * Type-C



1 * USB-A



2 * DC5521



Figure 2.2: Front panel of the DaranEner NEO300 Pro, highlighting the 7-in-1 power station with various output ports.

Components and Indicators

- **AC Outlets:** Two 600W (Peak 1200W) AC outputs for standard appliances.
- **USB-C Ports:** One 100W USB-C and one 60W USB-C for fast charging compatible devices.
- **USB-A Port:** One 18W USB-A port for standard USB devices.
- **Car Socket:** 12V car outlet for automotive accessories.
- **DC5521 Ports:** Two DC5521 outputs for various DC-powered devices.
- **LED Flashlight:** Integrated light for illumination.
- **LCD Display:** Shows battery level, input/output wattage, and status indicators.



Figure 2.3: Detailed view of the LED screen display, showing indicators for hibernation, solar charging, output, input, power, AC voltage/frequency, AC, USB, snowflake, thermometer, alarm, LED, and DC status.

3. Setup and Charging

Before first use, it is recommended to fully charge the DaranEner NEO300 Pro.

3.1 Charging Methods

The power station supports multiple charging methods:

- **AC Wall Outlet Charging:** Connect the provided AC charging cable to the input port and a standard wall outlet. The unit can reach 0-80% charge in approximately 1.3 hours.

0-80% RECHARGE IN 1 HOUR

Get Ready effortless



 Solar Charging
2 Hours



 Car Charging
2.5 Hours

Figure 3.1: The DaranEner NEO300 Pro being charged via an AC wall outlet, indicating a 1.3-hour charging time.

- **Solar Panel Charging:** Connect a compatible solar panel (MAX 150W, sold separately) to the DC input port. Charging time varies based on solar intensity and panel wattage. Approximately 2 hours for a full charge under optimal conditions.



Figure 3.2: The DaranEner NEO300 Pro connected to a solar panel for charging, indicating a 2-hour charging time.

- **Car Charging:** Use the car charger cable to connect the unit to your vehicle's 12V cigarette lighter socket. Approximately 2.5 hours for a full charge.

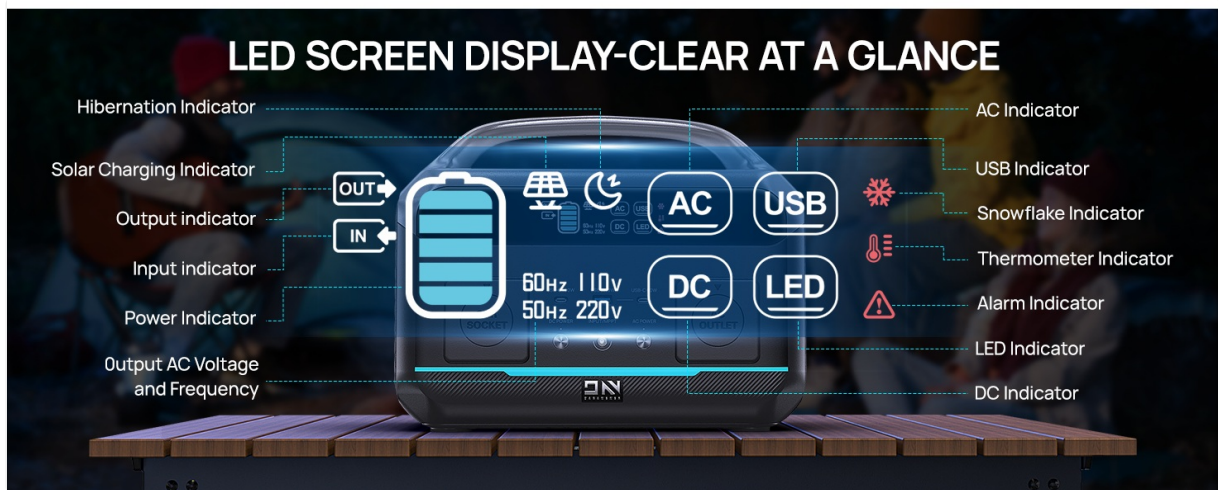


Figure 3.3: The DaranEner NEO300 Pro being charged in a car via the 12V car socket, indicating a 2.5-hour charging time.

4. Operating Instructions

4.1 Powering On/Off

To turn on the unit, press and hold the main power button for a few seconds until the LCD display illuminates. To turn off, press and hold the main power button again.

4.2 Using AC Outlets

Press the AC power button to activate the AC outlets. The AC indicator on the display will light up. Plug your devices into the AC outlets. Ensure the total power consumption does not exceed 600W (1200W peak). Press the AC power button again to turn off the AC outlets when not in use.

4.3 Using DC/USB Outputs

Press the DC power button to activate the DC and USB outputs. The corresponding indicators on the display will light up. Plug your devices into the USB-C, USB-A, Car Socket, or DC5521 ports. Press the DC power button again to turn off these outputs.

4.4 LED Flashlight Operation

Press the LED button to turn on the flashlight. Press again to cycle through different brightness modes or

turn off the light.

4.5 Uninterruptible Power Supply (UPS) Function

The DaranEner NEO300 Pro features a reliable UPS function. When connected to an AC wall outlet and simultaneously powering devices via its AC output, it can automatically switch to battery power within 10 milliseconds if the incoming power supply is interrupted. This ensures continuous operation for essential devices.

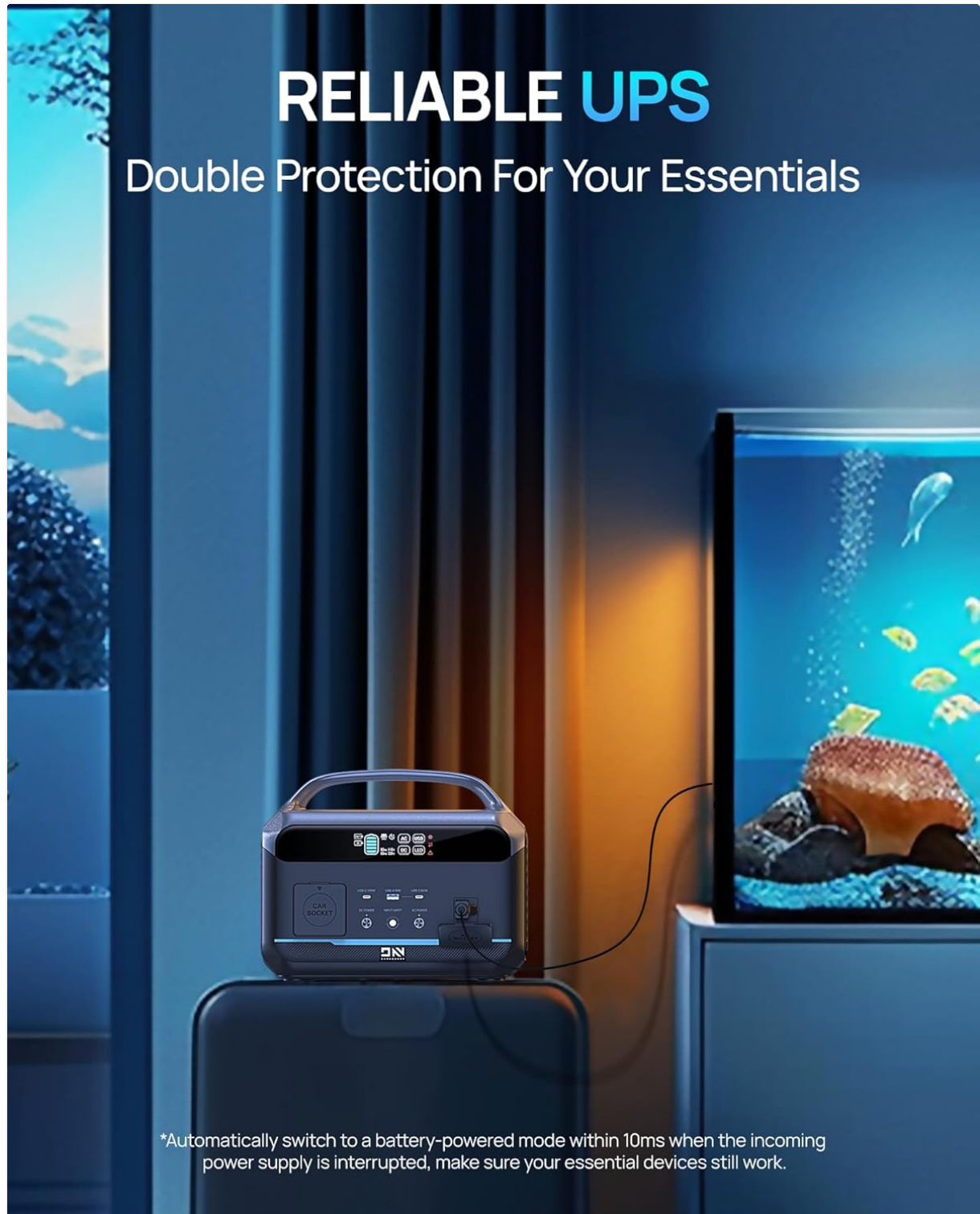


Figure 4.1: The DaranEner NEO300 Pro providing reliable UPS functionality, ensuring continuous power for connected devices during an outage.

5. Maintenance

5.1 Storage

- Store the unit in a cool, dry place, away from direct sunlight and corrosive materials.
- For long-term storage, charge the unit to 50-80% every 3-6 months to preserve battery health.
- Avoid storing in environments with extreme temperatures (below 0°C or above 40°C).

5.2 Cleaning

Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners or immerse the unit in water.

5.3 Battery Care

The DaranEner NEO300 Pro uses a LiFePO4 battery, known for its long cycle life. With proper care, the battery can maintain approximately 80% of its original capacity after 3500+ charge cycles.

WHICH IS THE BEST FOR YOU?

	 <p>Currently browsing</p> <p>NEO600</p>	 <p>NEO1800</p>	 <p>NEO2000</p>
Capacity	299Wh	1382.4Wh	2073.6Wh
Ports	AC *1 Type-C *1 USB-A *2 DC5521 *2 Car Socket *1	AC *3 Type-C *2 USB-A *4 Car Socket *1 DC5521 *4	AC *3 Type-C *2 USB-A *4 Car Socket *1 DC5521 *4 Wireless Charging *1
AC Port Max Output Power	600W	1800W	2000W
USB-C Port Max Output Power	100W	100W	100W
Fast Charging	1.3 H	1.3 H	1.8 H
Usage time (10W Phone)	25 H	117 H	176 H
Recommended Scenarios	Camping, Hiking, Home Backup Battery	Long Distance Travel, Home Backup Battery, Outdoor Work	Long Distance Travel, Home Backup Battery, Outdoor Work

Figure 5.1: Illustration of the internal LiFePO4 battery, emphasizing its durability with over 3500 charge cycles while retaining 80% capacity.

6. Troubleshooting

If you encounter issues with your DaranEner NEO300 Pro, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	Battery is completely depleted.	Connect to an AC charger for at least 10 minutes.
AC output not working	AC output not activated; device exceeds 600W.	Press the AC button; check device wattage.
Charging is slow or not occurring	Charger not properly connected; solar panel insufficient.	Ensure secure connections; check solar panel angle/sunlight.
Overload warning on display	Connected device(s) exceed the unit's output capacity.	Disconnect the overloaded device(s) and restart the output.

If the problem persists, please contact DaranEner customer support.

7. Specifications

Below are the technical specifications for the DaranEner NEO300 Pro Portable Power Station:

Feature	Specification
Model	NEO300 Pro
Battery Type	LiFePO4
Capacity	299Wh
AC Output	600W (Peak 1200W)
USB-C Output	1x 100W, 1x 60W
USB-A Output	1x 18W
Car Socket Output	12V
DC5521 Output	2 ports
AC Input Charging	150W (approx. 1.3 hours to 80%)
Solar Input Charging	Max 150W (approx. 2 hours)
Car Input Charging	12V (approx. 2.5 hours)
Dimensions (L x W x H)	12.1 x 7.7 x 9.7 inches
Weight	17.96 pounds



Figure 7.1: Product dimensions of the DaranEner NEO300 Pro, showing 12.1 inches length, 7.7 inches width, and 9.7 inches height.

8. Warranty and Support

8.1 Warranty Information

DaranEner products typically come with a limited warranty. Please refer to the warranty card included with your product or visit the official DaranEner website for detailed warranty terms and conditions.

8.2 Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact DaranEner customer support through their official website or the contact information provided in your product packaging.