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DaranEner NEOX

DARAN NEOX 300W Portable Power Station

USER MANUAL

1. Product Overview

The DARAN NEOX 300W Portable Power Station is a versatile and reliable power solution designed for various applications, including camping, RV travel, home emergency backup, and remote work. It features a 192Wh LiFePO4 battery, providing a continuous output of 300W, and is equipped with multiple output ports to power a wide range of devices.

Its compact and lightweight design, coupled with an ergonomic handle, ensures easy portability. The unit supports three recharging methods: AC wall outlet, car charger, and solar panel (sold separately), offering flexible power replenishment options.



Figure 1: DARAN NEOX 300W Portable Power Station

Key Features:

- **Stable Power Output:** 192Wh capacity with 300W continuous output.
- **Portable Design:** Weighs approximately 5.84 lbs, dimensions 8.41"L x 5.28"W x 7.44"H, with an ergonomic handle.
- **Multiple Output Ports:** Includes 2x 110V AC outlets (300W), 1x 12V car socket (120W), 2x DC5521 ports, 1x USB-A (18W), 1x USB-C (30W), and 1x USB-C PD (60W).
- **Three Recharging Methods:** AC wall outlet, car charger, or solar panel (sold separately).
- **Advanced Battery Safety:** Built-in Smart BMS (Battery Management System) for comprehensive protection.
- **LiFePO4 Battery:** Durable and safe with 3500+ cycle life.
- **LED Lighting:** Integrated LED light with 4 modes (2 brightness levels, Strobe, SOS).

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Video 1: Overview of the DARAN Portable Power Station 300W, highlighting its 192Wh LiFePO4 battery and various features.

2. Safety Instructions

Please read and understand all safety instructions before operating the DARAN NEOX 300W Portable Power Station. Failure to follow these instructions may result in electric shock, fire, or serious injury.

General Safety Guidelines:

- Do not disassemble, repair, or modify the unit.
- Do not expose the unit to fire or extreme temperatures.
- Avoid contact with liquids. Do not immerse the unit in water.
- Store the unit in a cool, dry place, away from direct sunlight and heat sources.
- Keep out of reach of children and pets.
- Use only original or certified accessories.
- Ensure proper ventilation during use and charging to prevent overheating.
- Do not block the ventilation openings.

Advanced Battery Safety System (BMS):

The integrated Smart BMS provides multiple layers of protection to ensure safe and stable operation:

- Overcharge Protection
- Over-discharge Protection
- Over-current Protection
- Short-circuit Protection
- Temperature Control
- Voltage/Current Balance Management



Figure 2: Combining Technology and Safety - Illustrates the unit's robust design and internal safety mechanisms.

The unit features EV-Class LiFePO4 batteries, known for their high safety, fireproof, puncture-resistant, and thermal runaway-resistant properties. The robust material construction is drop-resistant (UN38.3 Certified). Please note that only the battery pack is waterproof to prevent burning and explosion; the entire device is not waterproof.

3. Product Components

Package Contents:

- DARAN NEOX 300W Portable Power Station

- AC Charging Cable
- Car Charging Cable
- User Manual

Unit Diagram:



Figure 3: Product Dimensions and Front Panel Layout



Figure 4: Detailed View of Output Ports

1. **AC Outlets (x2):** 110V, 300W Max
2. **USB-C Ports (x2):** 30W/60W PD Fast Charging
3. **USB-A Port (x1):** 18W
4. **DC5521 Ports (x2):** 60W Max
5. **Car Socket (x1):** 12V, 120W Max
6. **DC Input Port:** For AC adapter or solar panel charging
7. **LED Display:** Shows battery level, input/output wattage, and status indicators.

8. **LED Light:** Integrated light with multiple modes.

4. Setup and Initial Charging

Unpacking:

Carefully remove the power station and all accessories from the packaging. Inspect the unit for any damage. If any components are missing or damaged, contact customer support immediately.

Initial Charging:

It is recommended to fully charge the power station before first use. The unit can be charged using one of the following methods:

- **AC Wall Outlet:** Connect the provided AC charging cable to the DC input port on the power station and then to a standard wall outlet. The LED display will show the charging status. A full charge takes approximately 2.2 hours (90W AC).
- **Car Charger:** Connect the provided car charging cable to the DC input port and then to your vehicle's 12V car socket. A full charge takes approximately 3.3 hours.
- **Solar Panel (Sold Separately):** Connect a compatible solar panel (e.g., 60W) to the DC input port. Position the solar panel in direct sunlight for optimal charging. A full charge with a 60W solar panel takes approximately 3.3 hours.



Figure 5: Multiple Recharging Options

5. Operating Instructions

Powering On/Off:

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

Using Output Ports:

- **AC Output:** Press the AC button to enable the AC outlets. The AC indicator will light up on the display. Plug your AC devices into the outlets. Press the AC button again to turn off AC output when not in use.
- **DC Output:** Press the DC button to enable the DC5521 ports and car socket. The DC indicator will light up. Plug your DC devices into the respective ports. Press the DC button again to turn off DC output.
- **USB Output:** The USB-A and USB-C ports are typically always active when the unit is powered on. Simply plug in your USB devices to begin charging.

LED Display Information:

The LED display provides real-time information about the power station's status:

- **Battery Level:** Percentage indicator of remaining battery capacity.
- **Input Power:** Displays the current charging wattage.
- **Output Power:** Shows the total wattage being drawn by connected devices.
- **Status Indicators:** Icons for AC, DC, USB, fan, and warning signals.

LED Lighting Modes:

The power station includes an integrated LED light for illumination. Press the LED light button to cycle through the modes:

- **50% Brightness**
- **100% Brightness**
- **Strobe Mode**
- **SOS Mode**



Figure 6: LED Lighting Modes

6. Maintenance

Cleaning:

Wipe the exterior of the power station with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure all ports are free of dust and debris.

Storage:

If storing the unit for an extended period, ensure it is charged to approximately 50-80% capacity. Recharge the unit every 3-6 months to maintain battery health. Store in a cool, dry environment, away from direct sunlight, moisture, and extreme temperatures.

Battery Care:

The LiFePO4 battery is designed for long life and high performance. It has no memory effect, allowing you to charge and use it at any time without degradation. For optimal longevity, avoid completely draining the battery frequently.

7. Troubleshooting

If you encounter issues with your DARAN NEOX 300W Portable Power Station, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	Battery is completely drained; Power button not pressed long enough.	Charge the unit using an AC adapter; Press and hold the power button for 3-5 seconds.
No AC output	AC output not enabled; Device exceeds 300W; Overload protection activated.	Press the AC button to enable; Check device wattage; Disconnect device and restart AC output.
No DC/USB output	DC output not enabled (for DC ports); Device not compatible; Cable issue.	Press the DC button to enable (for DC ports); Ensure device compatibility; Try a different cable.
Unit not charging	Charging cable not connected properly; Charger malfunction; Extreme temperature.	Ensure secure connection; Try a different charging method/cable; Move unit to a suitable temperature range (0-40°C).
Display shows error code/warning	Internal fault; Overload; Overheat.	Refer to specific error code in a more detailed manual (if available); Reduce load; Allow unit to cool down. If issue persists, contact support.

If the problem persists after trying these solutions, please contact DaranEner customer support for assistance.

8. Specifications

Feature	Specification
Brand	DaranEner
Model Name	NEOX
Battery Type	LiFePO4
Capacity	192Wh
AC Output	2x 110V, 300W (Continuous)

Feature	Specification
DC Output	2x DC5521 (60W Max), 1x Car Socket (12V, 120W Max)
USB Output	1x USB-A (18W), 1x USB-C (30W), 1x USB-C PD (60W)
Input (Charging)	AC Wall Outlet, Car Charger, Solar Panel (Max 60W)
Dimensions (L x W x H)	8.41" x 5.28" x 7.44"
Weight	5.8 lbs
Operating Temperature	0°C to 40°C (32°F to 104°F)
Charging Temperature	0°C to 40°C (32°F to 104°F)
Certifications	FC, CE, UKCA, RoHS, CCC, SGS

9. Warranty and Support

Warranty Information:

The DARAN NEOX 300W Portable Power Station comes with a**1-Year Manufacturer's Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

Customer Support:

For any questions, technical assistance, or warranty claims, please contact DaranEner customer support. Our team is available to provide prompt assistance.



Figure 7: DaranEner Premium Customer Service

Please have your purchase receipt and product model number (NEOX) ready when contacting support.

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