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## DaranEner NEO

# DaranEner NEO Portable Power Station 1800W User Manual

Model: NEO

## 1. INTRODUCTION

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The DaranEner NEO Portable Power Station is a versatile and high-capacity power solution designed for various applications, including home emergency backup, outdoor activities, and RV use. Featuring a 1382.4Wh LiFePO4 battery and an 1800W AC output (3000W surge), it provides reliable power for a wide range of devices and appliances.

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your DaranEner NEO Portable Power Station. Please read it thoroughly before use and retain it for future reference.

## 2. SAFETY INSTRUCTIONS

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To ensure safe operation, always follow these guidelines:

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Do not place the unit near fire or expose it to heat. Keep out of direct sunlight.
- Do not charge, use, or store the unit in a bathroom or in an area exposed to water or moisture.
- Use only the original charger and cables provided or approved by DaranEner.
- Keep the unit away from children and pets.
- Do not use the unit if it is damaged or has been dropped.
- Ensure proper ventilation during use and charging to prevent overheating.
- Avoid dropping metal objects into the unit's ports, as this may cause short circuits.

## 3. PRODUCT OVERVIEW: COMPONENTS AND PORTS

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Familiarize yourself with the various components and connection ports of your DaranEner NEO Portable Power Station.

# Support **14** charging Devices at a time

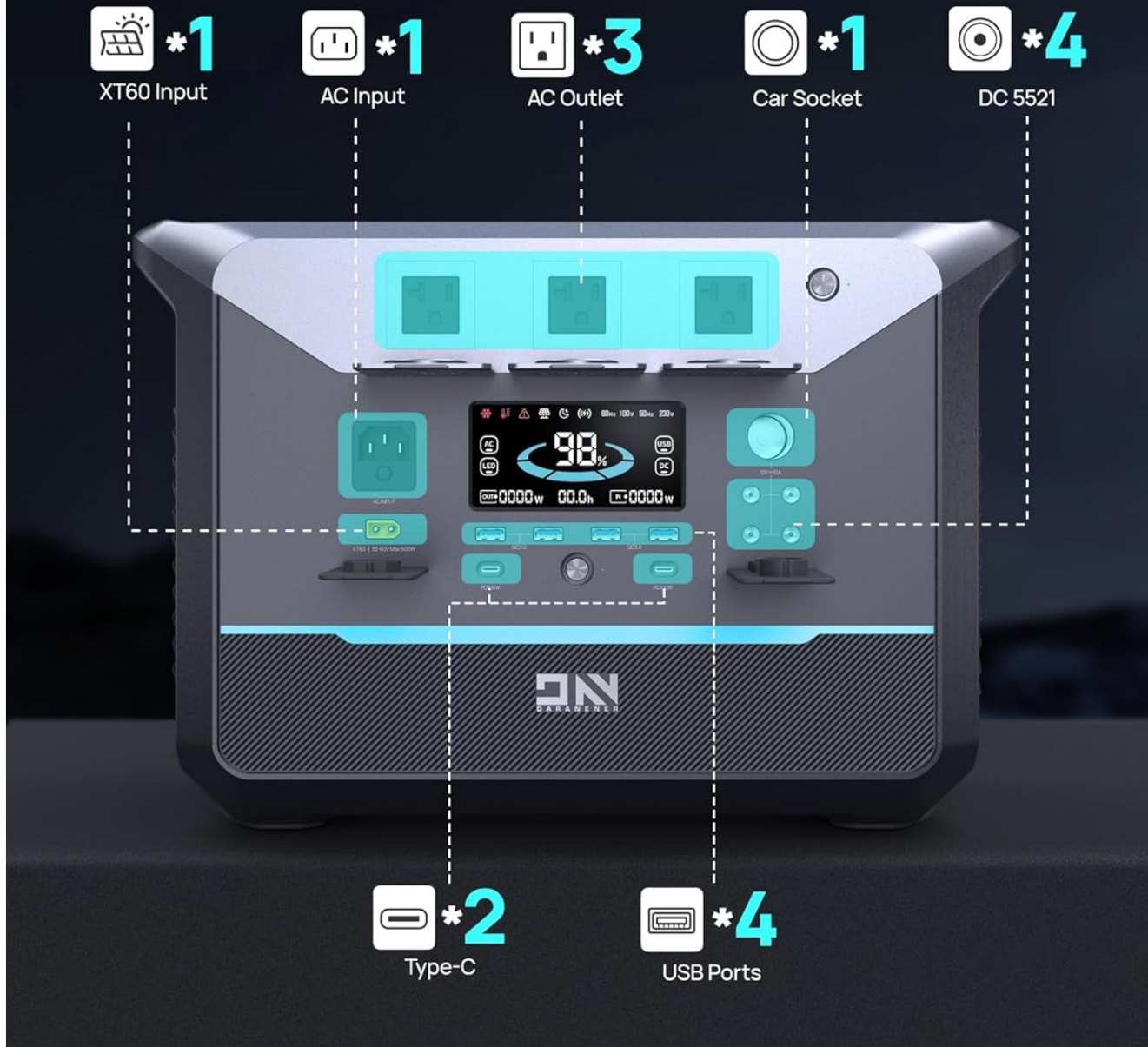


Figure 3.1: Front panel of the DaranEner NEO Portable Power Station, showing various input and output ports, including XT60 Input, AC Input, AC Outlets, Car Socket, DC 5521, Type-C, and USB Ports, along with the display screen.

- **XT60 Input:** For solar panel connection.
- **AC Input:** For wall charging.
- **AC Outlets:** Standard household outlets for AC appliances.
- **Car Socket:** 12V DC output for car appliances.
- **DC 5521 Output:** For various DC devices.
- **Type-C Ports:** USB-C ports for fast charging compatible devices.

- **USB Ports:** Standard USB-A ports for charging mobile devices.
- **Display Screen:** Shows battery level, input/output wattage, and other status indicators.

## 4. SETUP

### 4.1 Initial Charging

Before first use, fully charge the DaranEner NEO Portable Power Station. Connect the provided AC charging cable to the AC Input port on the unit and then to a wall outlet. The display will indicate charging status. A full charge from 0% to 100% typically takes approximately 1.3 hours using AC input.

**Ultra Fast Recharge**  
**0%-80% IN 60 Mins**  
**Full IN 1.3 H**

Model	Charging Time (H)	Capacity
DARAN	1.3 H	100%
OTHER	> 1.4 H	Same capacity

DARAN 100%  
Perfect backup power for home outages & outdoors

OTHER  
More than 1.4H to fully charge the same capacity

Figure 4.1: The power station connected to a wall outlet for charging, illustrating its fast charging capability.

## 4.2 Placement

Place the power station on a stable, flat surface in a well-ventilated area. Avoid placing it in direct sunlight, near heat sources, or in enclosed spaces that could restrict airflow.

# 5. OPERATING INSTRUCTIONS

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## 5.1 Powering On/Off

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

## 5.2 Charging Devices

The DaranEner NEO offers multiple output options:

- **AC Output:** Press the AC power button to activate the AC outlets. Plug your AC appliances into the available ports. The unit provides up to 1800W continuous power with a 3000W surge capacity.
- **DC Output:** Press the DC power button to activate the car socket and DC 5521 ports. Connect your 12V DC devices.
- **USB Output:** The USB-A and USB-C ports are typically active when the unit is on. Simply plug in your USB-compatible devices for charging.
- **Wireless Charging:** Place your Qi-compatible device on the wireless charging pad located on top of the unit. Ensure the device is centered for optimal charging.

# Best Emergency Companion

DaranEner **NEO1500 Pro**-Home Micro Power Station



 Phone (10W)	 Wi-Fi Router (10W)	 Game Console (16W)	 Laptop (58W)
 Heated Blanket (55W)	 Coffee Maker (550W)	 Microwave (700W)	 Heater (1500W)

Figure 5.1: The power station connected to and powering various household items, demonstrating its versatility.

## 5.3 Recharging the Power Station

The power station can be recharged using several methods:

- **AC Wall Outlet:** Connect the AC charging cable to the AC Input port and a wall outlet. Full charge in approximately 1.3 hours.
- **Solar Panel:** Connect compatible solar panels (max 600W) to the XT60 Input port. Charging time varies based on sunlight intensity and panel wattage.
- **Car Charger:** Use a compatible car charger to recharge the unit from your vehicle's 12V outlet.

# 3 WAYS TO RECHARGE



WALL OUTLET  
(FULL)

1.3H



WALL OUTLET  
+ SOLAR

0.9H



SOLAR PANEL  
(MAX. 600W)

2.4H



Figure 5.2: The power station being recharged by a solar panel, illustrating one of the three available charging methods.

## 5.4 Uninterruptible Power Supply (UPS) Function

The DaranEner NEO features a UPS function that provides continuous power to connected devices during an outage. When connected to an AC wall outlet, the unit can pass through power to connected devices. In the event of a power failure, it automatically switches to battery power within 20ms, ensuring uninterrupted operation for sensitive electronics like refrigerators, computers, and routers.

# Ensure Continuous Power

Provide backup power to your vital devices within  
**15MS UPS** in case of an outage.



Figure 5.3: The power station connected to a computer setup, demonstrating its Uninterruptible Power Supply (UPS) capability during a power outage.

## 5.5 Official Product Videos

### Power Station Home Use 1800

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This video demonstrates the DaranEner NEO Portable Power Station's use in a home setting, showcasing its ability to power various appliances during an outage and its seamless integration into daily life.

### Portable Power Station 1800W

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This video highlights the DaranEner NEO Portable Power Station's features and benefits for outdoor and mobile use, including its portability and solar charging capabilities.

## **6. MAINTENANCE**

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### **6.1 Storage**

When storing the power station for extended periods, ensure it is charged to approximately 50-80% and stored in a cool, dry place away from direct sunlight and extreme temperatures. Recharge the unit every 3-6 months to maintain battery health.

### **6.2 Cleaning**

Clean the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents. Keep all ports free of dust and debris.

### **6.3 Battery Care**

The DaranEner NEO uses LiFePO4 batteries, known for their long lifespan (3500+ cycles). To maximize battery life, avoid fully discharging the unit frequently and store it with a partial charge.

# 10-Year Lifespan

Stay safe with the most reliable **LiFePO<sub>4</sub>** cells and **BMS** (Battery Management System)



Figure 6.1: An internal diagram of the power station highlighting its LiFePO<sub>4</sub> battery cells and Battery Management System (BMS), indicating a 10-year lifespan.

## 7. TROUBLESHOOTING

If you encounter issues with your DaranEner NEO Portable Power Station, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Unit does not turn on	Low battery; Power button not pressed long enough	Charge the unit; Press and hold the power button for 3-5 seconds.
AC output not working	AC output not activated; Overload protection triggered	Press the AC power button; Reduce connected load, then restart AC output.
Slow charging via solar	Insufficient sunlight; Incorrect panel angle; Incompatible solar panel	Ensure direct sunlight; Adjust panel angle; Verify panel specifications.
Display not working	Unit off; Display error	Turn on the unit; Contact customer support if issue persists.

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

## 8. SPECIFICATIONS

Feature	Specification
Brand	DaranEner
Model Name	NEO
Wattage (Output)	1800W
Starting Wattage (Surge)	3000W
Battery Capacity	1382.4Wh
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Voltage	110V
Power Source	Battery Powered
Recharge Methods	AC Wall Outlet, Solar Panel, Car Charger
Product Dimensions	18.74"L x 13.58"W x 10.24"H
Item Weight	45 Pounds
Total Power Outlets	3 AC Outlets + DC/USB Ports
Special Feature	Portable, UPS Functionality

## 9. WARRANTY AND SUPPORT

### 9.1 Warranty Information

The DaranEner NEO Portable Power Station comes with a 1-year manufacturer's warranty. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

### 9.2 Customer Support

For technical assistance, warranty inquiries, or any questions regarding your DaranEner NEO Portable Power Station, please contact DaranEner customer service. Our dedicated team is available to provide support and

solutions.

You can typically find contact information on the official DaranEner website or through your purchase platform.