

## DaranEner NEO600

# DaranEner NEO600 Portable Power Station & 100W Solar Panel User Manual

Model: NEO600

## 1. INTRODUCTION

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Thank you for choosing the DaranEner NEO600 Portable Power Station with 100W Solar Panel. This device provides a reliable, quiet, and clean backup power solution for various applications, including home emergencies, outdoor activities, RV travel, and more. It features a robust LiFePO4 battery, multiple output ports, and fast charging capabilities. Please read this manual thoroughly before use to ensure safe and optimal operation.

## 2. PRODUCT OVERVIEW

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### 2.1 Key Features

- **Powerful Output:** 600W continuous AC power (1200W surge) and 576Wh capacity.
- **Rapid Recharge:** Fully recharges in approximately 1 hour via a wall outlet.
- **Long-Lasting Battery:** Premium LiFePO4 battery supports over 3,500 life cycles with a 10+ year lifespan.
- **Integrated Solar:** Includes a 100W solar panel for eco-friendly charging.
- **Versatile Ports:** Equipped with AC, USB-C (up to 100W), USB-A, and 12V DC car ports.
- **Portable Design:** Weighs approximately 8.71 lbs (6.8 lbs for the power station alone) with convenient handles for easy transport.
- **Safety Features:** Multiple built-in protections including overload, over-voltage, over-current, over-temperature, and short-circuit.

## 2.2 Components and Ports

The DaranEner NEO600 features a comprehensive set of input and output ports to power a wide range of devices.



**Image:** Diagram illustrating the various input and output ports on the DaranEner NEO600 Portable Power Station, including AC, DC, USB-C, and USB-A ports, along with their respective power ratings.

The power station includes:

- 1x AC Outlet (600W continuous, 1200W surge)
- 2x USB-C Ports (100W Max each)
- 1x USB-A Port (18W)
- 1x 12V DC Car Port (120W)
- 2x DC5521 Ports (120W total)

3500+ Cycles

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**Image:** A visual representation of the DaranEner NEO600 Power Station highlighting its LiFePO4 battery technology and its capability of 3500+ charge cycles, indicating long-term durability.

# Smaller than a laptop

Size:

**12.1 x 7.7 x 9.7 in**

Weight:

**15.2 LB**



**Image:** A person holding the DaranEner NEO600 Power Station outdoors, demonstrating its portability. Text overlays indicate its size (12.1 x 7.7 x 9.7 inches) and weight (15.2 lbs), emphasizing its compact and lightweight design.

## 3. SETUP

### 3.1 Initial Use

Upon receiving your DaranEner NEO600, it is recommended to complete two full charge-and-discharge cycles

to optimize battery performance and calibration.

### 3.2 Connecting the Solar Panel

To charge your power station using the included 100W solar panel, follow these steps:

1. Connect the black DC5521 cable to the solar panel.
2. Connect the yellow DC5525 cable to the power station's DC input port.

# How to Connect Solar Panel?



**Step 1:** The Black connects to solar panel.



**Step 2:** The Yellow connects to the power station.

**Image:** A two-step visual guide demonstrating how to connect the solar panel to the DaranEner NEO600 Power Station. Step 1 shows connecting a black DC5521 cable to the solar panel, and Step 2 shows connecting a yellow DC5525 cable to the power station.

## 4. CHARGING THE POWER STATION

The DaranEner NEO600 offers multiple convenient charging methods:

- **Wall Outlet (AC Charging):** Recharges the unit in approximately 1.1 hours (550W input).
- **Solar Input:** Charges in approximately 4.0 hours with a 150W solar input.
- **Car Input:** Charges in approximately 4.0 hours with a 150W car input.



**Image:** The DaranEner NEO600 Power Station connected to a wall outlet for fast charging, with text indicating 'FAST CHARGING IN 1.1 HOURS' and '550W'.

# 0-100% charging in 1.1 Hrs



**Image:** A visual guide showing the DaranEner NEO600 Power Station charging from a wall outlet, with icons and times for AC Charging (1.1 hours), Solar Input (4.0 hours), and Car Input (4.0 hours).

## 5. OPERATING THE POWER STATION

### 5.1 Powering On/Off

Press and hold the main power button to turn the unit on or off. The display will illuminate, showing battery

status and output information.

## 5.2 Using Output Ports

Activate the desired output section (AC, DC, or USB) by pressing its respective button. Connect your devices to the appropriate ports. The power station's pure sine wave AC output ensures safe power for sensitive electronics.

# 576Wh

## 600W Total Output



Audio (40W)

**12.2** Hours



Laptop (60W)

**8.1** Hours



Mini Fridge (100W)

**4.8** Hours

**Image:** The DaranEner NEO600 Power Station connected to and powering an audio speaker, a laptop, and a mini-fridge, demonstrating its 576Wh capacity and 600W total output. Estimated runtimes for each device are displayed.

## 5.3 Typical Usage Scenarios

The NEO600 is designed for versatility, providing power for a wide range of devices in various settings:







## FAST CHARGING IN 1.1 HOURS

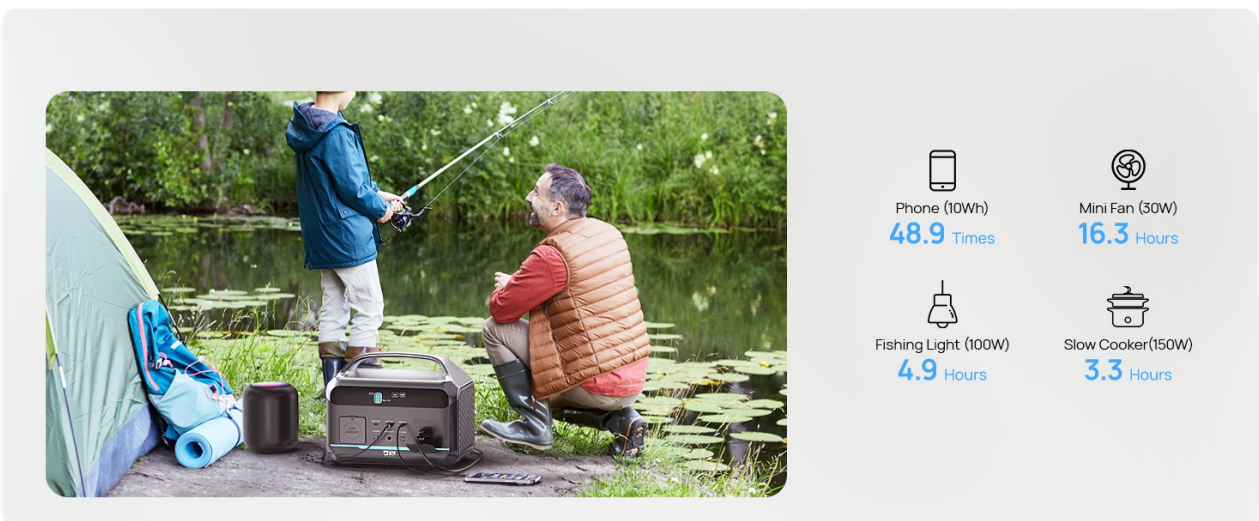
Intelligent fast-charging technology is at the heart of it, so say goodbye to bulky adapters and be ready to travel in 1.1 hours.





**Image:** A family enjoying camping with the DaranEner NEO600 Power Station, which is shown powering a mobile refrigerator, projector, coffee maker, and air pump, with estimated usage times for each device.



- |   |   |
|---|---|
| <br>Mobile Refrigerator (100W)<br><b>4.9</b> Hours | <br>Projector (150W)<br><b>3.3</b> Hours   |
| <br>Coffee maker (300W)<br><b>1.6</b> Hours      | <br>Air pumps (600W)<br><b>0.8</b> Hours |


**Image:** A person fishing with the DaranEner NEO600 Power Station, which is shown powering a phone, mini fan, fishing light, and slow cooker, with estimated usage times for each device.



- |   |  |
|---|--|
| <br>Phone (10Wh)<br><b>48.9</b> Times        | <br>Mini Fan (30W)<br><b>16.3</b> Hours   |
| <br>Fishing Light (100W)<br><b>4.9</b> Hours | <br>Slow Cooker(150W)<br><b>3.3</b> Hours |

**Image:** A family enjoying an outdoor movie night with the DaranEner NEO600 Power Station, which is shown powering audio equipment, electric mosquito liquid, a projector, and an electric grill, with estimated usage times for each device.



  
Audio (40W)  
**12.2** Hours

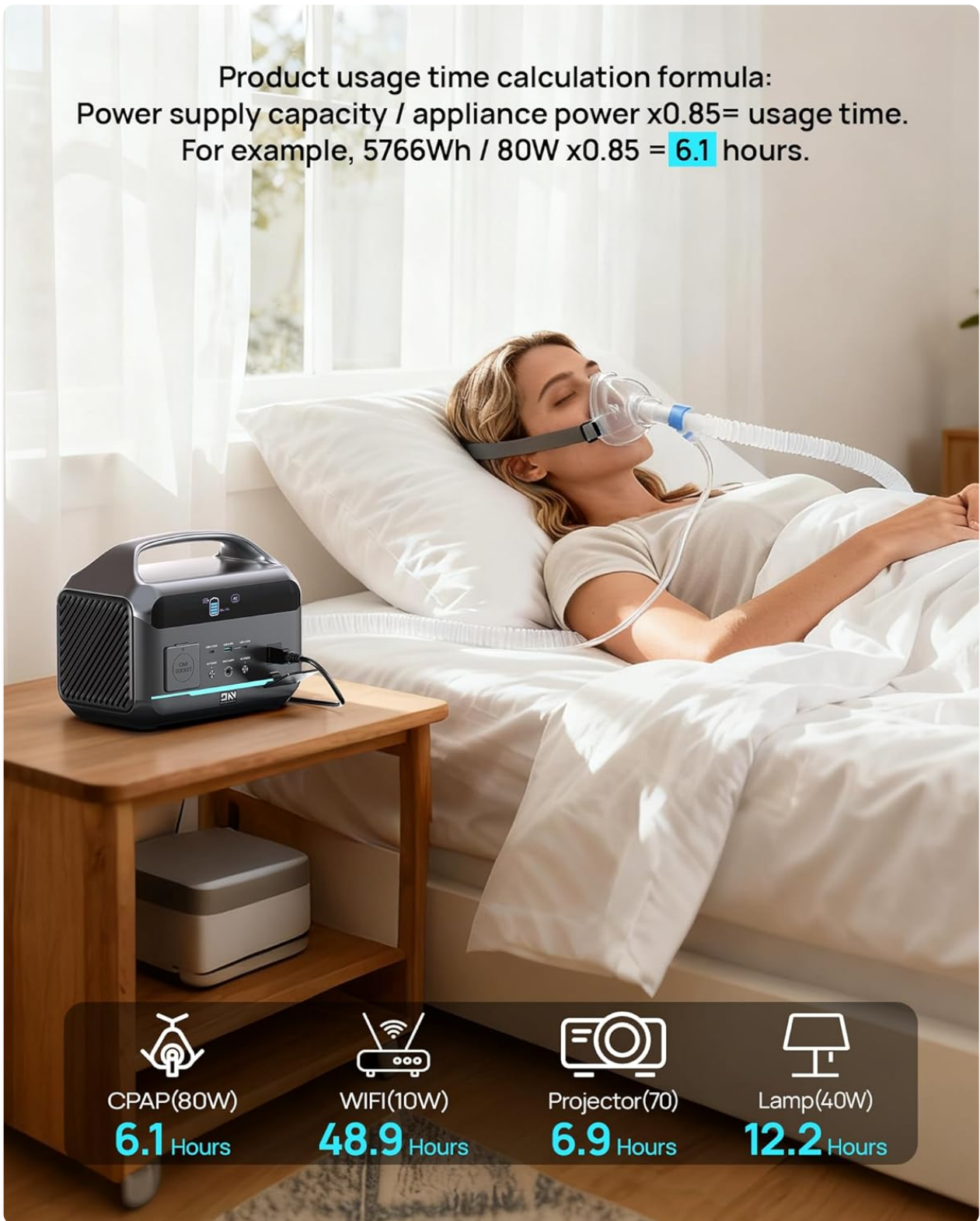
  
Electric Mosquito Liquid (100W)  
**4.9** Hours

  
Projector (150W)  
**3.3** Hours

  
Electric Grill (300W)  
**1.6** Hours

**Image:** A family using the DaranEner NEO600 Power Station for home backup, powering WiFi, a lamp, TV, laptop, and a fish tank air pump, with estimated usage times for each device.

Product usage time calculation formula:  
Power supply capacity / appliance power x0.85= usage time.  
For example, 5766Wh / 80W x0.85 = **6.1** hours.



**Image:** The DaranEner NEO600 Power Station positioned next to a bed, powering a CPAP machine. Text overlays show estimated usage times for a CPAP (6.1 hours), WiFi (48.9 hours), Projector (6.9 hours), and Lamp (12.2 hours).

## 5.4 Video Demonstrations

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**Video:** An official product video from DARANENER-US showcasing the Portable Power Station 576Wh, 600W (1200W Surge) in various usage scenarios, highlighting its features and capabilities.

## 6. MAINTENANCE

- For optimal battery health, recharge the power station every 1-2 months, even if not in use.
- Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- Keep the power station clean and free from dust and debris.

## 7. TROUBLESHOOTING

If you encounter any issues with your DaranEner NEO600, please refer to the following common troubleshooting tips:

- **No Power Output:** Ensure the power station is turned on and the specific output (AC/DC/USB) is activated. Check the battery level.
- **Device Not Charging:** Verify that the device's power requirements do not exceed the port's maximum output. Try a different port or cable.
- **Overload Protection:** If the unit shuts down due to overload, disconnect some devices and restart the power station.
- **Slow Charging:** Ensure the charging source (wall adapter, solar panel, car charger) is providing sufficient power. Check cable connections.

For persistent issues or further assistance, please contact DaranEner customer support.

## 8. SPECIFICATIONS

Feature	Specification
Brand	DaranEner
Model Name	NEO
Color	dark grey
Battery Cell Composition	Lithium-Phosphate (LiFePO4)
Output Wattage	576 Watt Hours
Maximum Output Power	1200W (Peak)
Continuous AC Output	600W
Voltage	110 Volts
Power Source	Battery-Powered

Feature	Specification
Reusability	Rechargeable
Item Weight	8.71 Pounds
Item Dimensions (L x W x H)	13.1" x 9.7" x 7.7"
Special Features	Fast Charging, LED Indicator Lights, Over Charging Protection, Portable, Short Circuit Protection
Compatible Devices	Camera, Drone, Laptop, Mini Fridge, Smartphone

## 9. WARRANTY AND SUPPORT

The DaranEner NEO600 Portable Power Station comes with a **1-Year Manufacturer Warranty**. DaranEner is committed to providing reliable products and excellent customer service.



### 24 hours Premium Service

If you have any questions about our power station, please contact us at any time, and we will respond to you **within 24 hours**. We will try our best to bring you a worry-free experience.

**Image:** The DaranEner NEO600 Power Station with a prominent shield icon and text indicating '5 Year Service', highlighting the extended support or service commitment.

For any questions, technical support, or warranty claims, please contact DaranEner customer service. We aim to respond to all inquiries within 24 hours to ensure a worry-free experience.

