

DaranEner NEOK2

DaranEner Portable Power Station NEOK2 User Manual

Model: NEOK2

1. IMPORTANT SAFETY INSTRUCTIONS

Please read this manual carefully before using the DaranEner Portable Power Station NEOK2. Failure to follow these instructions may result in electric shock, fire, or serious injury. Keep this manual for future reference.

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire or direct sunlight.
- Do not use or store the unit in a bathroom or in areas exposed to water or moisture.
- Use only the provided or approved accessories.
- Ensure proper ventilation during use and charging.
- Do not drop, strike, or subject the unit to strong impacts.
- Keep out of reach of children.
- Dispose of the product according to local regulations.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x DaranEner Portable Power Station NEOK2
- 1x AC Charging Cable
- 1x User Manual

3. PRODUCT OVERVIEW

The DaranEner Portable Power Station NEOK2 is a versatile power solution designed for outdoor activities, RVs, and home emergency use. It features a 288Wh LiFePO4 battery and provides up to 600W (1200W surge) of power output.

6-Port Fast Charging Devices



AC x2
(600W)



CigarSocket x1
(120W)



USB-C PD x1
(100W)



USB-A x2
(18W)



Figure 3.1: Front view of the DaranEner Portable Power Station, highlighting its multiple output ports.

The unit is equipped with a digital display that shows real-time status, including battery level, input/output wattage, and remaining runtime.

3 Ways to Recharge

0-80% charging in 1.8 Hrs



AC Charging
Max 130W



Solar Input
Max 80W



Car Input
Max 80W



Figure 3.2: Close-up of the digital display on the power station.

It offers a variety of output options to power different devices:

- 2x AC Outlets (600W, 1200W Surge)
- 1x USB-C PD100W Port
- 2x USB-A (18W) Ports
- 1x DC Output (Car Socket)

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Video 3.1: An overview of the DaranEner 600W Portable Power Station, demonstrating its features and ports.

4. SETUP

4.1 Initial Charging

Before first use, fully charge the power station. Connect the provided AC charging cable to the input port on the unit and then to a wall outlet. The digital display will indicate the charging status.

4.2 Connecting Devices

Once charged, you can connect your devices to the appropriate output ports. Ensure that the total power consumption of your devices does not exceed the power station's rated output of 600W.



Figure 4.1: The power station simultaneously charging a laptop and a smartphone.

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 digital display will illuminate upon activation.

5.2 Using AC Outlets

Press the AC ON/OFF button to activate the AC outlets. Plug your devices into the 110V AC ports. Ensure the device's wattage is within the 600W limit. The AC port will automatically turn off if the battery level drops below 10% to prevent damage.



Easy to Carry, Even with One Hand

Just **8.86 lb**, easy to carry for
women during camping or outages

Figure 5.1: Close-up of the AC outlets on the power station.

5.3 Using USB Ports

The power station includes 1x USB-C PD100W port and 2x USB-A 18W ports. These ports are always

active when the unit is on. Connect your USB-compatible devices for fast charging.

10-Year Lifespan LFP Battery

3500 cycles to 80%+ capacity

DaranEner NEO300L
(LiFePO₄ Battery)



About **3500** Cycles

OTHER BATTERIES
(Lithium Battery)



Charge/Discharge Cycle
About **500** Cycles

Figure 5.2: A smartphone being fast-charged using the PD 100W USB-C port.

5.4 Using DC Output (Car Socket)

Press the DC ON/OFF button to activate the 12V car socket output. This is suitable for devices like car refrigerators or CPAP machines that use a 12V car adapter.

5.5 LED Light Function

The integrated LED light can be activated by pressing its dedicated button. Press once for steady illumination, and press again to cycle through different modes, including an SOS signal for emergencies.

5.6 Power Limit Warning

Do not connect devices that exceed the 600W output limit. Overloading the power station can cause it to shut down or result in damage. Examples of high-wattage appliances to avoid include microwaves, rice cookers, electric drills, hair dryers, and induction cookers.



Figure 5.3: Visual warning against connecting high-wattage appliances.

6. RECHARGING THE POWER STATION

The DaranEner NEOK2 offers multiple recharging options:

600W/288Wh

Power Your Outdoor Moments

			
Electric pot(500W)	Laptop (25Wh)	Slow cooker (210W)	Car fridge(100W)
0.5 hours	9.8 Times	1 hours	2.3 hours



Figure 6.1: Illustration of the three recharging methods.

6.1 AC Charging

Use the included AC charging cable to recharge the unit from a standard wall outlet. The power station can reach 80% charge in approximately 2 hours.

6.2 Solar Charging

The power station supports solar input for charging (solar panel not included). Connect a compatible solar panel to the input port. Charging time will vary depending on solar panel wattage and sunlight conditions.

6.3 Car Charging

The unit can be recharged via a car charger (car charging cable not included). Connect the appropriate cable to your vehicle's 12V outlet and the power station's input port.

7. BATTERY INFORMATION AND MAINTENANCE

The DaranEner NEOK2 uses a durable LiFePO4 battery, known for its long lifespan and safety features.

7.1 LiFePO4 Battery Lifespan

The LiFePO4 battery is designed for over 3500 charge cycles to 80%+ capacity, offering years of reliable use.

3,500+ Cycles of Reliable Power

Advanced LiFePO4 battery technology provides exceptional durability and stability—designed to last through years of daily use.



Figure 7.1: Illustration of the LiFePO4 battery structure and its extended cycle life.

7.2 Battery Management System (BMS)

An advanced Battery Management System (BMS) protects the unit against overheating, short circuits, and overloads, ensuring safe operation.

7.3 Storage Guidelines

For optimal battery health, store the power station in a cool, dry place away from direct sunlight. If storing for extended periods, recharge the unit to 50-80% every 3-6 months.

7.4 Low Battery Protection

When the battery level reaches 10%, the AC output ports will automatically shut off to prevent deep discharge and protect the battery. DC and USB ports will remain available until the battery is fully depleted.

8. TROUBLESHOOTING

8.1 Unit Does Not Turn On or Charge

- Ensure the power button is pressed and held for a few seconds to activate the unit.
- Verify that the AC charging cable is securely connected to both the power station and a working wall outlet.
- Check if the AC charging cable is damaged.
- If using solar or car charging, ensure connections are secure and the power source is active.

8.2 AC Outlets Not Working

- Ensure the AC ON/OFF button has been pressed to activate the AC output.
- Check the battery level. AC output automatically disables below 10% charge.

- Verify that the connected device's wattage does not exceed 600W. Overload protection may have activated. Disconnect the device and restart the AC output.

8.3 USB/DC Ports Not Working

- Ensure the power station is turned on.
- For DC output, ensure the DC ON/OFF button has been pressed.
- Check if the USB or DC cable is securely connected and undamaged.
- Try a different port or device to isolate the issue.

9. SPECIFICATIONS

Feature	Specification
Brand	DaranEner
Model Name	NEOK2
Battery Capacity	288Wh (equivalent to 15 Amp Hours at 19.2V)
Battery Cell Composition	LiFePO4 (Lithium Iron Phosphate)
Output Wattage	600 Watts (1200W Surge)
AC Outlets	2x 110V AC
USB-C Output	1x PD 100W
USB-A Output	2x 18W
DC Output	1x Car Socket (12V)
Power Source	Battery-Powered, Solar Powered (optional), AC/DC (10V-26V max)
Recharge Time (AC)	80% in approximately 2 hours
Dimensions	9.3 x 6 x 7.5 inches
Weight	8.7 lb (2600 Grams battery weight)
Special Features	Portable, USB Port, Integrated LED Light with SOS mode

10. WARRANTY AND SUPPORT

DaranEner is committed to providing reliable products and support. If you encounter any issues or have questions regarding your Portable Power Station NEOK2, please do not hesitate to contact our customer service team.

We strive to provide a satisfactory solution for all inquiries. Please refer to your purchase documentation or the official DaranEner website for specific warranty details and contact information.