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› [DaranEner](#) /

› [DaranEner Portable Power Station 300W 192Wh User Manual](#)

DaranEner NEO

DaranEner Portable Power Station 300W 192Wh User Manual

Model: NEO | Brand: DaranEner

1. INTRODUCTION AND SAFETY INFORMATION

Thank you for choosing the DaranEner Portable Power Station 300W 192Wh. This device is designed to provide reliable power for your electronic devices during outdoor activities, travel, or power outages. It features a durable LiFePO4 battery, multiple output ports, and a compact design for portability.

Important Safety Instructions:

- Do not connect devices that exceed 300W continuous power (600W surge).
- For first-time use, fully charge and discharge the battery to activate its full capacity.
- Keep the device away from water, fire, and extreme temperatures.
- Do not disassemble or attempt to repair the unit yourself. Contact support for technical issues.
- Ensure proper ventilation during use and charging.

2. PRODUCT OVERVIEW

The DaranEner Portable Power Station is a versatile power solution, offering various output options and a built-in LED light. Its compact size and lightweight design make it ideal for on-the-go power needs.

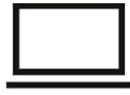
Unleash Unstoppable Power

300W 192Wh(60,000MAH)



Lamp (5W)

32.6 Hours



Laptops(60Wh)

2.7 Times



Phone(10Wh)

16.3 Times



Camera (16Wh)

10.2 Times

192Wh



Figure 2.1: DaranEner Portable Power Station connected to a laptop, phone, and camera, illustrating its multi-device charging capability.

Key Features:

- **300W Rated Power (600W Surge):** Capable of powering a wide range of devices.
- **192Wh (60,000mAh) Capacity:** Provides extended power for smartphones, laptops, and other electronics.
- **LiFePO4 Battery:** Offers enhanced safety and a longer lifespan (up to 10 years, 3500+ cycles).
- **Pure Sine Wave AC Output:** Ensures stable and clean power for sensitive electronics.
- **Multiple Output Ports:** Includes 2x AC outlets, 2x USB-A ports, 1x USB-C port, and 1x DC carport.
- **Lightweight and Portable:** Weighs approximately 5.5 lbs (2.5 kg) with a convenient carry handle.
- **4-Mode LED Light:** Integrated light with high, low, strobe, and SOS modes for various situations.
- **Solar Compatible:** Can be recharged using a compatible solar panel (sold separately).

3. SETUP AND INITIAL USE

Upon receiving your DaranEner Portable Power Station, it is recommended to perform the following steps:

1. **Unpack:** Carefully remove the power station and all accessories from the packaging.
2. **Initial Charge:** Fully charge the unit using the provided AC fast charging cable until the display shows 100%.
3. **Initial Discharge:** After a full charge, fully discharge the unit by powering a device until the battery is depleted.
4. **Repeat Cycle:** Complete two full charge and discharge cycles to calibrate the battery management system.

Pro Tip: For better long-term maintenance, recharge the battery generator every 1-2 months if not in regular use.

4. OPERATING INSTRUCTIONS

The power station features an intuitive interface with dedicated buttons for different output types.







 Heating Pad (100W) 1.6 Hours	 Switch (16Wh) 10.2 Times
 Laptops(60Wh) 2.7 Times	 Phone(10Wh) 16.3 Times

Figure 4.1: Detailed view of the power station's front panel, highlighting AC outlets, USB ports, DC output, and control buttons.

4.1 Powering On/Off Outputs:

- **DC Power (USB & DC Output):** Press and hold the "DC POWER" button to activate the USB-A, USB-C, and 12V DC output ports. The corresponding icons on the display will illuminate. Press and hold again to turn off.
- **AC Power:** Press and hold the "AC POWER" button to activate the 110V AC outlets. The "AC" icon on the display will illuminate. Press and hold again to turn off.

4.2 Display Information:

The digital display shows the current battery percentage and indicates which output types (AC, USB, DC) are active.

Your browser does not support the video tag.

Video 4.1: A seller demonstrating the DaranEner Portable Power Station 300W, showcasing its various ports and the digital display in a camping tent setting.

4.3 Device Compatibility:

This power station is suitable for devices requiring up to 300W of power. Examples include:

- Smartphones (recharge over 10 times)

- Laptops (recharge approximately 2.7 times for a 60Wh laptop)
- Mini-fridges (run for about 3.6 hours for a 45W mini-fridge)
- CPAP machines, drones, mini-fans, LED lights.

High-Capacity & Multi-Purpose

300W | 192Wh



Mini Fridge (45W)

3.6 Hours



Fan (30W)

5.4 Hours



Inflatable Pump (130W)

1.2 Hours



Drone (50Wh)

3.2 Times



Figure 4.2: The power station providing power to various outdoor electronics, including a mini-fridge, fan, inflatable pump, and drone, highlighting its high capacity and multi-purpose use.

5. CHARGING OPTIONS

The DaranEner Portable Power Station offers flexible charging methods to ensure you always have power when you need it.



Daranener Portable Power Station

compact and travel-friendly.

Figure 5.1: Visual representation of the three primary charging methods: AC wall outlet, solar panel, and car input.

- **AC Wall Outlet:** Use the included AC fast charging cable to charge the power station from a standard wall outlet. A full charge takes approximately 3.7 hours.
- **Solar Panel (Optional):** Connect a compatible solar panel (sold separately) to the DC input port (10-26V DC, 3A max). A 60W solar panel can fully charge the unit in about 3.4 hours under optimal sunlight conditions.
- **Car Input:** Charge the power station from your vehicle's 12V car port using a compatible car charging cable (sold separately). A full charge with a 60W car input takes approximately 3.4 hours.

6. LED LIGHT MODES

The integrated LED light provides illumination for various situations, from camping to emergencies.

Recharge Anytime, Anywhere



AC 55W

recharge to 100% in 3.7 hours.



Solar Panel 60W

recharge to 100% in 3.4 hours.



Car Socket 60W

recharge to 100% in 3.4 hours.

Note: 1. The Power station does not include solar panel, car charging cable, USB-C cable, or solar charging cable.
2. The charging data in the image is based on internal testing, actual performance may vary.



Figure 6.1: The power station's LED light providing illumination inside a tent, demonstrating its utility in low-light conditions.

To activate the LED light, press the dedicated light button on the side of the unit. Cycle through the modes by pressing the button repeatedly:

- **High Lighting Mode:** Provides maximum brightness for general illumination.
- **Low Lighting Mode:** Offers reduced brightness for extended use or softer ambient light.
- **Strobe Mode:** Flashing light for signaling or attracting attention.
- **SOS Mode:** Emits the international Morse code distress signal (three short, three long, three short flashes).

7. SPECIFICATIONS

Detailed technical specifications for the DaranEner Portable Power Station 300W 192Wh.

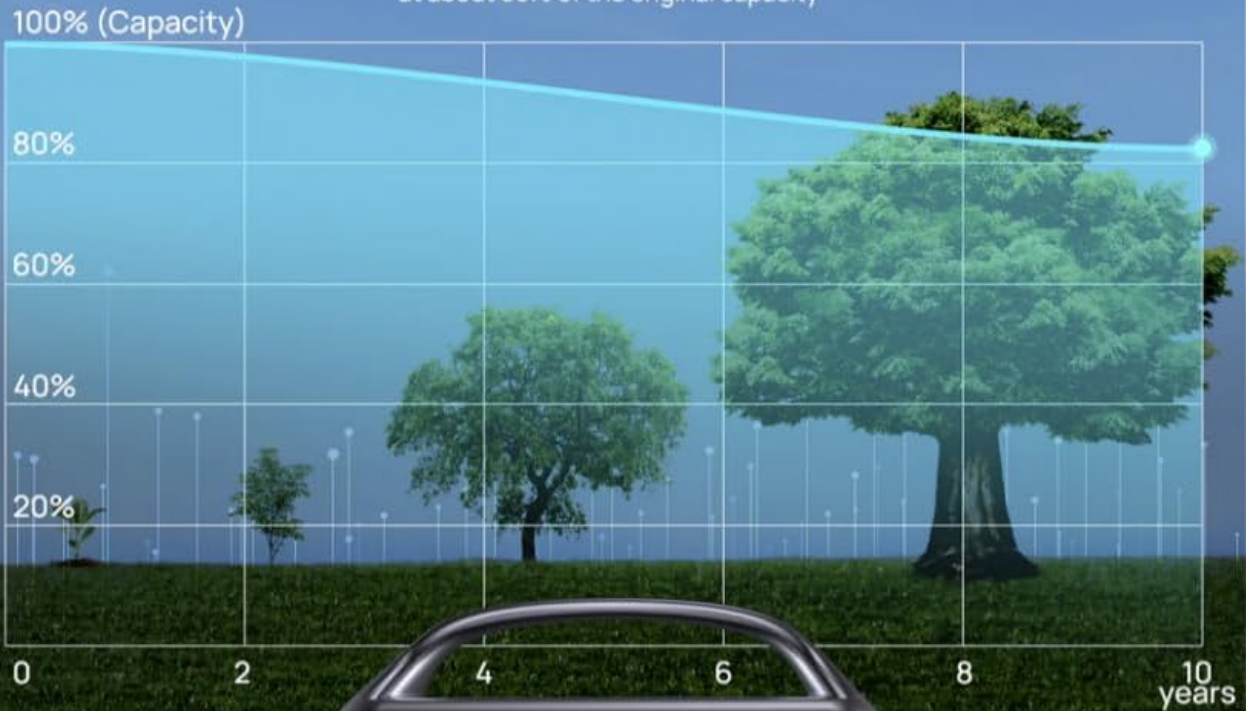
Feature	Specification
Model Number	NEO
Rated Power	300W (600W Surge)
Battery Capacity	192Wh (60,000mAh)
Battery Type	LiFePO4 (Lithium-Phosphate)
AC Output	2x 110V AC Outlets (Pure Sine Wave)
USB-A Output	2x USB-A Ports (18W each)
USB-C Output	1x USB-C Port (45W)
DC Output	1x DC Carport (12V DC, 10A max)
AC Input	120V~60Hz 2A (55W)
Solar/Car Input	10-26V DC, 3A max (60W max)
Dimensions	8.98 x 5.43 x 6.22 inches
Weight	5.5 lbs (2.5 kg)

LiFePO4 Battery Battery Lasts Up to 10 Years

6×
Longer

10×
Safer

Advanced BMS, after 3500 cycles, the capacity is still maintained at about 80% of the original capacity



Cycles
3500+



Figure 7.1: The DaranEner Portable Power Station with its compact dimensions (8.98 x 5.43 x 6.22 inches) highlighted, emphasizing its portability.

8. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your DaranEner Portable Power Station.

- **Regular Recharging:** If the unit is not used for extended periods, recharge the battery every 1-2 months to

maintain battery health.

- **Storage:** Store the power station in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use liquid cleaners or immerse the device in water.
- **Avoid Overloading:** Do not connect devices that exceed the rated 300W continuous power to prevent damage to the unit.




Mini Fridge (45W)
3.6 Hours


Camera (16Wh)
10.2 Times


Lamp (40W)
4.0 Hours


Drone (50Wh)
3.2 Times

Figure 8.1: An illustration highlighting the LiFePO4 battery's longevity, maintaining 80% capacity after 3500+ cycles, equivalent to approximately 10 years of use.

9. TROUBLESHOOTING

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

- **Unit Not Turning On:** Ensure the battery is charged. If the battery is completely depleted, it may take a few minutes of charging before the display activates.
- **No Output Power:** Verify that the specific output (DC or AC) is activated by pressing and holding its respective power button. Check if the connected device's power consumption exceeds the unit's rated output.
- **Charging Issues:** Ensure the charging cable is securely connected. If using solar, confirm the solar panel is in direct sunlight and within the specified voltage range (10-26V DC).
- **Overload Protection:** If the unit shuts down unexpectedly, it may be due to an overload. Disconnect the high-power device and restart the unit.

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

10. WARRANTY AND SUPPORT

The DaranEner Portable Power Station 300W 192Wh comes with a **1-Year Warranty** from the date of purchase, covering manufacturing defects and workmanship.

What the Warranty Covers: 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.

For Technical Support or Warranty Claims:

- Visit the official DaranEner website: www.daranener.com
- Email our support team at: support@daranener.com

DaranEner is committed to providing reliable, quiet, and clean power solutions. Our goal is to ensure your satisfaction with our products.