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› DaranEner Portable Power Station 600W with Solar Panel 80W User Manual

DaranEner NEOK (288Wh+SP100W-600W)

DaranEner Portable Power Station 600W with Solar Panel 80W

Model: NEOK (288Wh+SP100W-600W) - User Manual

INTRODUCTION

Thank you for choosing the DaranEner Portable Power Station. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your power station. Please read this manual thoroughly before using the product and retain it for future reference.



Image: The DaranEner Portable Power Station shown with its accompanying solar panel, illustrating the complete power solution.

IMPORTANT SAFETY INFORMATION

To ensure safe operation, always adhere to the following precautions:

- Do not disassemble, repair, or modify the unit.
- Do not place the unit near fire or expose it to heat.
- Do not expose the unit to liquids or immerse it in water.
- Do not use or store the unit in high-temperature environments.
- Keep the unit away from children and pets.
- Do not use accessories not specified by DaranEner.
- Ensure proper ventilation during use to prevent overheating.
- Handle with care; avoid dropping or subjecting the unit to strong impacts.

PRODUCT OVERVIEW

The DaranEner Portable Power Station is designed to provide reliable power for various applications, from outdoor adventures to home emergencies. It features a 288Wh LiFePO4 battery and a 600W (1200W surge) pure sine wave inverter.

Key Features

- **High Capacity:** 288Wh LiFePO4 battery for extended power.
- **Powerful Output:** 600W continuous (1200W surge) pure sine wave AC output.
- **Versatile Charging:** Supports AC, solar, and car charging.
- **Multiple Ports:** 2 AC outlets, 1 car charger, 2 USB-C (100W), 2 DC5521, and 1 USB-A.
- **Long Lifespan:** LiFePO4 battery offers over 3,500 charge cycles.
- **Portable Design:** Weighs 8.4 lbs with compact dimensions (10"L x 6.6"W x 8.22"H).
- **Quiet Operation:** Operates at less than 45 dB.
- **Integrated LED Light:** Features 2 brightness levels, strobe, and SOS modes.

8-in-1 Power Station

Great Option for Camping



AC x2
(600W)



Cigar Socket x1
(120W)



DC5521 x2
(120W)



Type-C x2
(30W/100W)



USB-A x1
(18W)



Image: The DaranEner power station showcasing its eight different output ports, including AC, USB-C, USB-A, DC5521, and car charger, indicating its versatility.



Image: A detailed diagram illustrating the various input and output ports, along with control buttons on the DaranEner power station, such as USB-C, DC5521, Car Socket, AC Output, AC Input, and DC Power.

LED Display Indicators

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

- **Power Percentage:** Current battery level.
- **Charging/Discharging Remaining Time:** Estimated time until full or empty.
- **Output AC Voltage and Frequency:** Displays 60Hz, 110V, 50Hz, 230V.
- **Input Power (W):** Current power input.
- **Output Power (W):** Current power output.
- **Indicators:** AC, USB, DC, LED, Alarm, Thermometer, Snowflake, Dormancy, Solar Charging.



Image: A close-up view of the DaranEner power station's LED display, detailing each indicator and its function, such as power percentage, input/output wattage, and various status icons.

SETUP

Unboxing and Initial Inspection

Upon receiving your DaranEner Portable Power Station, carefully unpack all components. Verify that all items listed in the packaging contents are present and undamaged. If any items are missing or damaged, contact customer support

immediately.

Initial Charging

It is recommended to fully charge the power station before its first use. This ensures optimal battery performance and calibration.

- **AC Charging:** Connect the power station to a standard wall outlet using the provided AC charging cable. The unit supports fast charging, reaching 80% in approximately 1 hour and full charge in 1.7 hours (max 170W).
- **Solar Charging:** Connect a compatible solar panel (max 100W) to the power station's solar input port. Place the solar panel in direct sunlight for efficient charging. Full charge can be achieved in approximately 3 hours with optimal sunlight.
- **Car Charging:** Use the car charger cable to connect the power station to your vehicle's 12V cigarette lighter port. This method can fully charge the unit in approximately 3 hours.

Power up Anywhere

Speedy recharge always!



Image: The DaranEner power station being charged through three different methods: AC wall outlet, solar panel, and a car's 12V socket, highlighting its versatile charging capabilities.

OPERATING INSTRUCTIONS

Turning On/Off

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

Connecting Devices

Identify the appropriate output port for your device (AC, USB-C, USB-A, DC5521, Car Charger). Plug your device into the corresponding port. Ensure the device's power requirements do not exceed the power station's output limits.

288Wh/600W

Keep All Your Gears Powered

			
Laptop (100W)	Electric Blanket (200W)	Coffee Maker (300W)	Electric Cooker (400Wh)
2.4 Hours	1.2 Hours	0.8 Hours	0.6 Hours

Image: The DaranEner power station demonstrating its ability to power various devices, including a laptop, electric blanket, coffee maker, and electric cooker, with estimated runtimes.

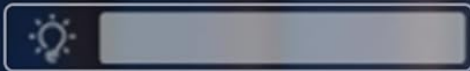
LED Light Bar Operation

The power station includes an integrated LED light bar for illumination:

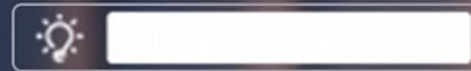
- **Turn On:** Long press the LED light button for 1 second to activate at 50% brightness.
- **Cycle Modes:** Long press again to cycle through 100% brightness, SOS mode, and strobe mode.
- **Turn Off:** Short press the LED light button to turn off the light.

<45 dB Whisper Quiet

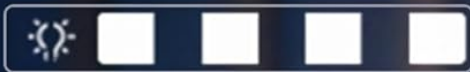
50% Lightness



100% Lightness



Strobe Mode



SOS Mode



At just under 45 dB, it's as peaceful as a whisper, even at a closed distance of 1.9 ft.

Image: The DaranEner power station illustrating its LED light bar with 50% brightness, 100% brightness, strobe, and SOS modes, alongside a depiction of its quiet operation (under 45 dB).

Typical Applications

The DaranEner Portable Power Station is suitable for a wide range of uses:

- **Camping & Outdoor Adventures:** Powering lights, mini-fridges, phones, and other small electronics.
- **RV Travel:** Providing power for essential appliances on the go.
- **Home Emergency Backup:** Keeping critical devices running during power outages.
- **Backyard Parties:** Powering audio systems, projectors, and lighting.
- **Fishing:** Powering fishing lights, mini-fridges, and other gear.

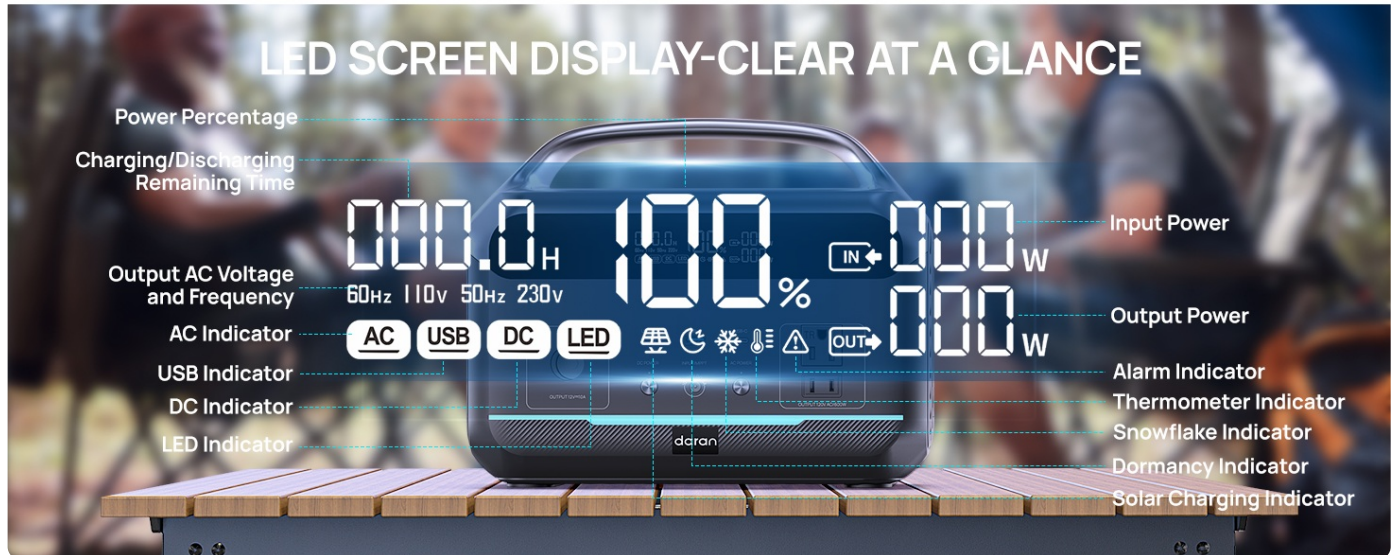


Image: A collage of four scenarios demonstrating the DaranEner power station's versatility: camping, fishing, backyard parties, and home emergency backup, showing its adaptability to various power needs.

MAINTENANCE

Storage

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

Cleaning

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

Battery Care

The DaranEner Portable Power Station utilizes a LiFePO4 battery, known for its durability and long cycle life. With proper care, the battery can be charged and discharged over 3,500 times before its capacity drops to 80%, providing nearly 10 years of regular use. The advanced Battery Management System (BMS) protects against over-voltage, over-current, and over-temperature conditions.

LiFePO4 Battery

Battery lasts up to 10 years

Cycles
3500+



Image: A visual representation of the DaranEner power station highlighting its LiFePO4 battery technology and the integrated Safer BMS System, emphasizing its long lifespan of over 3500 cycles.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is completely discharged.	Connect to an AC outlet and charge for at least 10 minutes before attempting to turn on.
AC output not working.	AC output is not enabled or device exceeds 600W.	Ensure AC button is pressed. Check device wattage. Reduce load if necessary.
USB/DC output not working.	Output port not enabled or device is incompatible.	Ensure the respective DC/USB button is pressed. Try a different port or device.
Slow charging.	Using a low-power charger or insufficient solar input.	Use the provided AC adapter for fastest charging. For solar, ensure panels are in direct sunlight and clean.
Overload warning on display.	Connected device draws too much power.	Disconnect the device immediately. Restart the power station and connect devices within specified limits.

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

SPECIFICATIONS

Feature	Detail
Brand	DaranEner
Model Name	NEOK
Style	288Wh+SP100W-600W
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Capacity	288Wh
AC Output	600W (Pure Sine Wave), 1200W Surge, 110V
USB-C Output	2 ports (1x 100W, 1x 30W)
USB-A Output	1 port (18W)
DC5521 Output	2 ports (120W total)
Car Charger Output	1 port (120W)
AC Input (Charging)	Max 170W (Full charge in 1.7 hours)
Solar Input (Charging)	Max 100W (Full charge in approx. 3 hours)
Car Input (Charging)	12V (Full charge in approx. 3 hours)
Dimensions (L x W x H)	10" x 6.6" x 8.22"
Item Weight	8.4 Pounds
Operating Noise Level	<45 dB
Included Components	Power Station, Solar Panel (80W)



Image: A perspective view of the DaranEner power station with its key dimensions (length, width, height) clearly marked, illustrating its compact size.

WARRANTY AND SUPPORT

DaranEner provides a **2-Year Manufacturer Warranty** for this product, covering defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

Customer Service

For any questions, technical support, or warranty inquiries, please contact DaranEner customer service. Our team is committed to providing premium service and will respond to your inquiries within 24 hours to ensure a worry-free experience.

Visit the official DaranEner store for more information and support: [DaranEner Store](#)