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› Daran NEOZL Portable Power Station 192Wh 300W User Manual

Daran NEOZL Portable Power Station

Daran NEOZL Portable Power Station User Manual

Model: NEOZL Portable Power Station

1. INTRODUCTION

The Daran NEOZL Portable Power Station is a versatile and compact power solution designed for various applications, including camping, home backup, and RV use. It features a 192Wh LiFePO4 battery, providing 300W continuous power (600W surge) with multiple output ports.

What's Included:

- Portable Power Station 300W 192Wh
- Foldable Solar Panel 40W
- AC Cable
- User Manual

Perfect Companion For Hassle-Free Travel

192Wh for a full day of camping essentials



16.3 Times
Phone (10Wh)



2.7 Hours
Laptop (60W)



1.6 Hours
Mini Fridge (100W)



2.7 Hours
Starlink Mini (60W)



Image: The Daran NEOZL Portable Power Station is a perfect companion for travel, providing power for a full day of camping essentials. It can charge a smartphone approximately 16.3 times, power a laptop for 2.7 hours, a mini fridge for 1.6 hours, or a Starlink Mini for 2.7 hours.

Your Backup Power Follows You Everywhere



Weight:

5.5 LB



Size:

8.66 x 5.1 x 7.2 in



Image: The power station is compact and portable, weighing 5.5 lbs (2.49 kg) with dimensions of 8.66 x 5.1 x 7.2 inches, making it easy to carry for backup power wherever you go.

2. SAFETY INFORMATION

Please read all safety instructions carefully before using the Daran NEOZL Portable Power Station. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Do not expose the unit to fire or high temperatures.
- Do not use or store the unit in direct sunlight or in hot environments.
- Keep the unit away from water and other liquids.
- Use only approved accessories and chargers.
- Ensure proper ventilation during use and charging.

- The integrated Battery Management System (BMS) protects against overcharge, overheating, and short circuits.

Read Before Use

The failure of a solar panel to charge under sunlight is typically caused by a combination of environmental and technical factors. These include insufficient light intensity or improper tilt angles, partial shading from debris or obstacles (which can significantly disrupt the circuit), and overheating which triggers thermal protection. Additionally, you should inspect for loose or corroded connectors (such as MC4 or DC ports), damaged cabling, or a voltage mismatch where the panel's output falls outside the power station's required input range. It is also possible that the battery's Management System (BMS) has stopped the charge because the battery is either already full or has entered a deep-discharge protection mode. For details, please refer to the user manual.

Image: Important information regarding solar charging. Solar panel charging issues can arise from insufficient light, improper tilt, partial shading, or overheating. Always check for loose or corroded connectors and ensure the panel's output voltage matches the power station's input range. The Battery Management System (BMS) may also stop charging if the battery is full or in deep-discharge protection mode.



Image: The power station utilizes LiFePO4 battery technology, known for its high safety, fireproof, puncture-resistant, and thermal runaway-resistant properties. It offers over 3500+ charge cycles and approximately 10 years of lifespan, with no memory effect, allowing charging and use at any time.

3. SETUP

Before first use, fully charge your Daran NEOZL Portable Power Station.

Initial Charging:

1. Connect the provided AC cable to the AC input port on the power station.
2. Plug the other end of the AC cable into a standard wall outlet.
3. The LCD display will show the charging status. The unit will reach 80% charge in approximately 3 hours and 100% in about 3.7 hours via AC wall outlet.

4. OPERATING INSTRUCTIONS

Charging the Power Station:

The Daran NEOZL Portable Power Station can be recharged using three methods:

- **AC Wall Outlet:** Connect the AC cable to a wall outlet. Full charge in approximately 3.7 hours.
- **Solar Panel:** Connect a compatible solar panel (up to 60W, 40W panel included) to the DC input port. Built-in MPPT technology optimizes solar charging. A 40W panel typically takes 6+ hours for a full charge under optimal sunlight.
- **Car Charger:** Connect to a car's 12V cigarette lighter socket using a compatible car charging cable (not included).

Charge Anywhere, Anytime

AC Input

RECHARGE TO 100% IN 3.7 HOURS



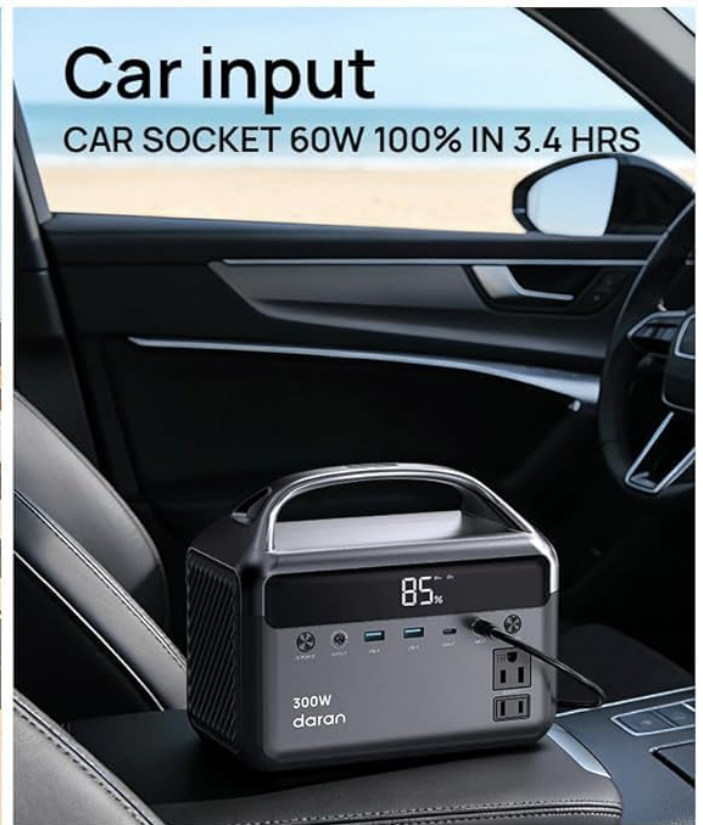
Solar input

SOLAR PANEL 60W 100% IN 3.4 HRS



Car input

CAR SOCKET 60W 100% IN 3.4 HRS



Note: The Power station does not include solar panel, car charging cable, USB-C cable, or solar charging cable

Image: The power station supports multiple charging methods: AC wall outlet, solar panel, and car input. AC charging recharges to 100% in 3.7 hours. Solar panel (60W) and car socket (60W) charging can also achieve 100% in approximately 3.4 hours.

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.



Image: Visual representation of the three charging options: AC wall outlet, car socket, and solar panel. Note that the solar panel, car charging cable, and USB-C cable are not always included and actual charging times may vary.

Power Supply At Any Time



Image: The power station can be recharged by solar power during the day and provides power for lighting and devices at night, ensuring continuous power supply.

Using Output Ports:

The power station is equipped with multiple output ports to power various devices:

- **2 x AC Outlets (300W):** For devices requiring standard wall power (e.g., laptops, small appliances).
- **1 x DC5521 (120W):** For DC-powered devices.

- **1 x USB-C (45W):** For fast charging compatible USB-C devices.
- **2 x USB-A (18W):** For charging standard USB devices.



Image: The power station features 6 ports, including 2 AC outlets (300W), 1 DC5521 (120W), 1 USB-C (45W), and 2 USB-A (18W), allowing simultaneous charging of various devices.

LED Screen Display:

The LED screen provides real-time information about the power station's status.

LiFePO4 Battery Safer

- ✓ LiFePO4 battery, high safety, fireproof, puncture-resistant, thermal runaway-resistant.
- ✓ 3500+ cycle life, high current, high power, fast charging, approx. 10 years of lifespan.
- ✓ No memory effect, charge and use at any time.



Image: The LED screen displays output status (AC, USB, DC, LED), temperature monitor, battery percentage, and warning indicators for easy monitoring of the power station's operation.

LED Light Modes:

The power station includes a built-in LED light with four modes for various situations.

- **High Lighting Mode:** For maximum illumination.
- **Low Lighting Mode:** For softer, energy-saving light.
- **Strobe Mode:** For signaling or emergency situations.
- **SOS Mode:** For emergency signaling.

4-Mode LED Light

Lighting up the night



High lighting mode



Low Lighting Mode



Strobe mode



SoS mode



Image: The 4-mode LED light illuminates the night, providing reliable and bright light for outdoor activities or during power outages.

Usage Examples:

The 192Wh capacity can power various devices for extended periods. Usage time is calculated as: **Power supply capacity / appliance power x 0.85 = usage time.**

- 30W CPAP machine: approximately 5.44 hours (192Wh x 0.85 / 30W).
- 150W slow cooker: approximately 1.08 hours (192Wh x 0.85 / 150W).

Product usage time calculation formula:
Power supply capacity / appliance power x0.85= usage time.
For example, 192Wh / 100W x0.85 = **1.6** hours.

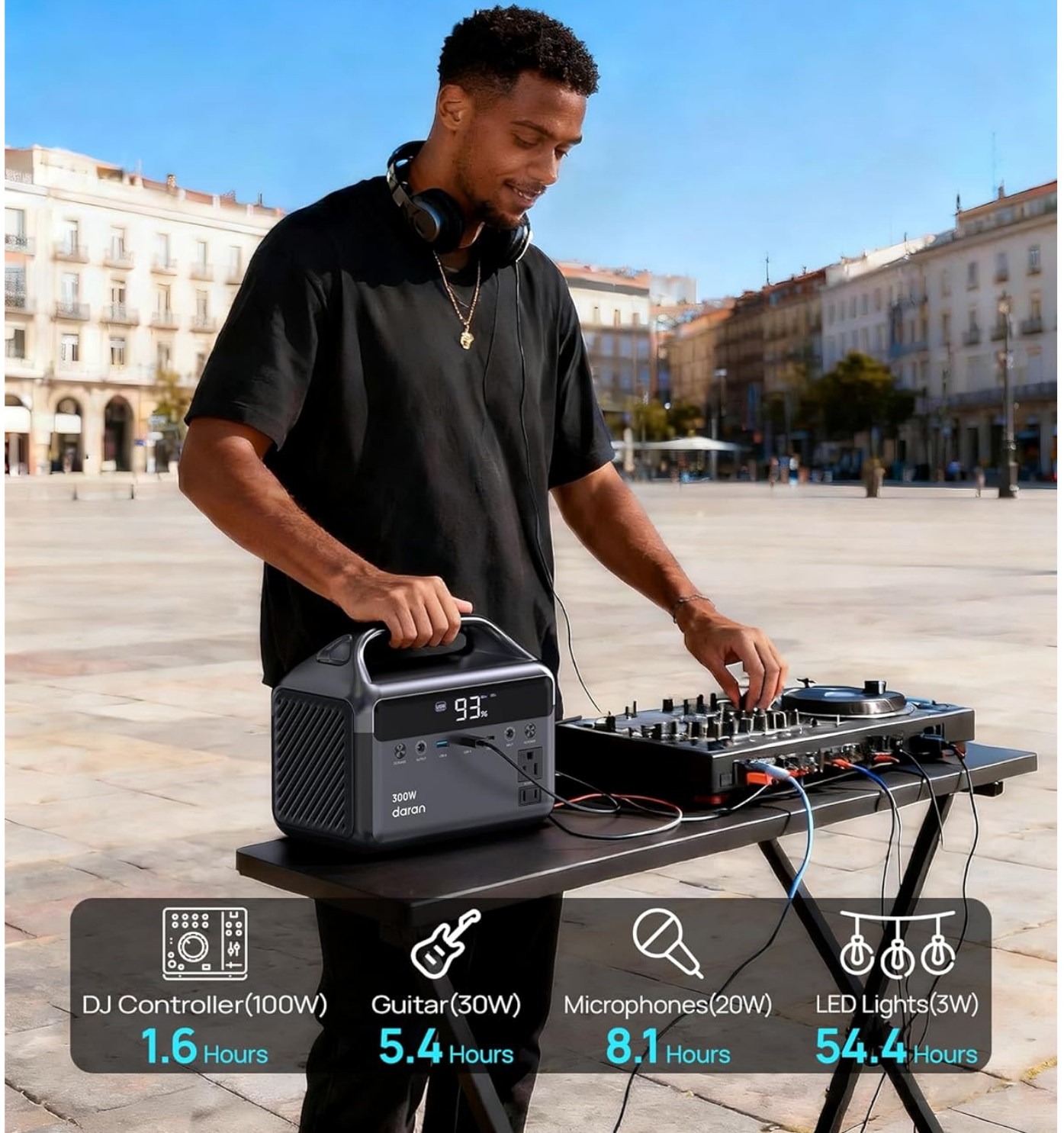


Image: The power station can power a 100W DJ controller for 1.6 hours, a 30W guitar for 5.4 hours, 20W microphones for 8.1 hours, or 3W LED lights for 54.4 hours.

Product usage time calculation formula:
Power supply capacity / appliance power x0.85= usage time.
For example, 192Wh / 80W x0.85 = **2.0** hours.



CPAP(80W)

2.0 Hours



WIFI(10W)

16.3 Hours



Projector(70)

2.3 Hours



Lamp(40W)

4.0 Hours

Image: The power station can power an 80W CPAP machine for 2.0 hours, a 10W WiFi router for 16.3 hours, a 70W projector for 2.3 hours, or a 40W lamp for 4.0 hours.

☑ Mini Fridge (100W)

☑ Laptop(60W)

☑ Audio(40W)

☑ Camping lamp(30W)

☑ Drone(50Wh)

☑ Camera(16Wh)

Image: For outdoor camping, the power station can charge a 16Wh camera 10.2 times, power a 30W mini fan for 5.4 hours, a 40W audio device for 4.0 hours, or a 200W juicer for 0.8 hours. Battery life varies with product power rating.



Home Backup Battery

Phone (10Wh)
16.3 Times

WiFi (10W)
16.3 Hours

Laptop (25Wh)
6.5 Times

Lamp (40W)
4.0 Hours

Note: Surge 600W refers to the maximum output power provided in a short period of time (usually <1 second).

Image: As a home backup battery, it can charge a 10Wh phone 16.3 times, power a 10W WiFi router for 16.3 hours, a 25Wh laptop for 6.5 times, or a 40W lamp for 4.0 hours. Surge 600W refers to the maximum output power provided in a short period (usually <1 second).

Official Product Video:

Your browser does not support the video tag.

Video: This official product video from Voltzip (Seller) provides an overview of the Daran 300W, 192Wh LiFePO4 Battery Power Station with Solar Panel, demonstrating its features and capabilities. Duration: 4 minutes, 11 seconds.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your power station.

- **Storage:** Store the power station in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Charging Frequency:** For optimal battery health, fully charge the unit at least once every 3-6 months, even if not in use.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or immerse in water.

- **Battery Care:** The LiFePO4 battery is designed for over 3,500 charge cycles and has no memory effect. Avoid deep discharge for extended periods.

6. TROUBLESHOOTING

If you encounter issues with your Daran NEOZL Portable Power Station, refer to the following common solutions:

Problem	Possible Cause	Solution
Unit not turning on	Battery is completely discharged.	Connect to an AC wall outlet and charge for at least 30 minutes.
No output from AC/DC/USB ports	Output port not activated or device exceeds power limit.	Press the corresponding output button (AC, DC, USB) to activate. Check if the device's power consumption is within the station's limits (300W AC, 120W DC, 45W USB-C, 18W USB-A).
Solar panel not charging	Insufficient sunlight, improper panel angle, shading, loose connection, or battery full.	Ensure the solar panel is in direct sunlight and angled correctly. Check all cable connections. Remove any obstructions causing shade. The BMS may stop charging if the battery is already full or in deep-discharge protection mode.
Overload warning on display	Connected device draws too much power.	Disconnect the device causing the overload. Reduce the total power draw from the power station.
Overheating warning	Unit is operating in a hot environment or under heavy load.	Move the unit to a cooler, well-ventilated area. Reduce the load on the power station.

7. SPECIFICATIONS

Detailed technical specifications for the Daran NEOZL Portable Power Station.

Daran NEOZL Portable Power Station

AC Recharging to 100%	3.6 Hours
Max AC Input	55W
AC Output	300W
Dimensions	8.66 x 5.1 x 7.08 in
Solar Recharging	60W(Max)
Capacity	192Wh



Image: Visual representation of the Daran NEOZL Portable Power Station's dimensions and key specifications, including AC recharging time, max AC input, AC output, solar recharging, and capacity.

Feature	Specification
Brand	Daran
Model Name	NEOZL Portable Power Station
Capacity	192Wh / 60000mAh
AC Output	300W (600W Surge) Pure Sine Wave, 110V, 60Hz
DC Output	1 x DC5521 (120W)
USB-C Output	1 x USB-C (45W)
USB-A Output	2 x USB-A (18W)
AC Recharging Time	Approx. 3.7 hours (55W input)
Solar Recharging	Up to 60W (40W panel included), MPPT technology
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Cycle Life	3,500+ cycles
Dimensions (L x W x H)	8.66 x 5.1 x 7.2 inches (22 x 13 x 18.3 cm)
Weight	5.5 lbs (2.49 kg)
Special Features	4-Mode LED Light, BMS Protection, Compact Design
Material	ABS

8. WARRANTY AND SUPPORT

Warranty:

The Daran NEOZL Portable Power Station comes with a **1-Year Manufacturer Warranty**. Please retain your proof of purchase for warranty claims.

Customer Support:

For any questions or assistance regarding your power station, please contact Daran customer service. We aim to respond to all inquiries within 24 hours to ensure a satisfactory experience.



Image: Daran offers premium customer service, with a commitment to respond to inquiries within 24 hours.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question