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DARAN NEO

DARAN Portable Power Station 300W with 30W Solar Panel User Manual

Model: NEO | Brand: DARAN

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your DARAN Portable Power Station 300W with 30W Solar Panel. Please read this manual thoroughly before use and retain it for future reference.

Your browser does not support the video tag.

Video: Overview of the DARAN Portable Power Station 288Wh LiFePO4 300W Solar Generator, highlighting its features and portability.

SAFETY INSTRUCTIONS

- Do not expose the device to extreme temperatures or direct sunlight for prolonged periods.
- Keep away from water and moisture.
- Do not disassemble or attempt to repair the device.
- Use only approved charging cables and accessories.
- Ensure proper ventilation during use and charging.
- Keep out of reach of children.
- Note: Not suitable for high-power appliances such as rice cookers, hair dryers, or mini-fridges.

PRODUCT OVERVIEW

The DARAN Portable Power Station 300W is a compact and lightweight power solution designed for various applications, including outdoor adventures and emergency backup. It features multiple output ports and can be recharged via AC, solar, or car.

Main Unit Features

8 Fast Charge Ports

Charge at Lightning Speed



AC x2
(300W)



DC5521 x2
(60W)



USB-C 1
(30W)



USB-C 2
(60W)



USB-A x1
(18W)



cigarette x1
(60W)



Front panel of the DARAN Portable Power Station, highlighting the 8 output ports for multi-device charging.

Included 30W Solar Panel

The kit includes a 30W high-efficiency solar panel for convenient outdoor recharging.

3 Fast Recharge Methods

AC Charge 100% in **2.1 hrs**



Note: *Charging date from lab results with dedicated charger. Real-world charging varies by charger & conditions.

Solar Panel 30W

100% in **8 hrs**



Car Socket

100% in **3.2 hrs**



The included 30W foldable solar panel.

Your browser does not support the video tag.

Video: Detailed look at the DARAN Portable Power Station 300W, 192Wh LiFePO4 Battery, showcasing its design and features.

SETUP

Initial Charge

For optimal performance, complete two full charge and discharge cycles after receiving the product.

Connecting the Solar Panel

Unfold the 30W solar panel and position it in direct sunlight. Connect the solar panel's output cable to the "INPUT" port on the power station.

CHARGING THE POWER STATION

AC Wall Charging

Use the provided AC fast charging cable to connect the power station to a standard wall outlet. The display will indicate charging status.



Charging the power station using the AC wall adapter.

Solar Charging

Connect the 30W solar panel to the "INPUT" port. Ensure the solar panel is positioned to receive maximum sunlight. A 30W solar panel takes approximately 8 hours to fully charge the power station. For daily charging, an 80-100W solar panel is recommended (not included).

3 Fast Recharge Methods

AC Charge 100% in **2.1 hrs**



Note: *Charging date from lab results with dedicated charger. Real-world charging varies by charger & conditions.

Solar Panel 30W

100% in **8 hrs**



Car Socket

100% in **3.2 hrs**



Solar charging the power station with the included 30W solar panel.

Car Charging

The power station can be charged via a 12V car socket. A vehicle charging cable is not included and must be purchased separately.

300W (Equipped with 8 Output Ports)



Charging the power station using a car socket (cable not included).

OPERATING INSTRUCTIONS

Powering On/Off

Press and hold the respective "DC ON/OFF" or "AC ON/OFF" buttons to activate or deactivate the DC or AC outputs. The display will show the battery percentage and active outputs.

Using Output Ports

- **AC Outlets (2x 300W):** Plug in small electronics and appliances rated under 300W. The pure sine wave output protects sensitive devices.
- **USB-C PD (2x 60W Max):** For fast charging compatible USB-C devices.
- **USB-A QC 3.0 (1x 18W):** For quick charging compatible USB-A devices.
- **DC5521 (2x 60W):** For DC-powered devices.
- **12V Car Port (1x):** For 12V car accessories.

8 Fast Charge Ports

Charge at Lightning Speed


AC x2
(300W)


DC5521 x2
(60W)


USB-C 1
(30W)


USB-C 2
(60W)


USB-A x1
(18W)


cigarette x1
(60W)



Detailed view of the power station's output ports.

LED Light Function

The power station includes an LED light on the back with multiple modes: bright, dim, and SOS flash. Press and hold the LED button to cycle through modes.

LiFePO4 Battery 3500+ Cycles

- ① LiFePO4 battery, high safety, fireproof, puncture-resistant, thermal runaway-resistant.
- ② 3500+ cycle life, high current, high power, fast charging, approx. 10 years of lifespan.
- ③ No memory effect, charge and use at any time.

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



The integrated LED light on the rear of the power station.

Your browser does not support the video tag.

Video: Demonstrating the DARAN Portable Power Station's use in a camping scenario, highlighting its portability and charging capabilities.

MAINTENANCE

- Recharge the battery generator every 1-2 months for better maintenance.
- Store in a cool, dry place away from direct sunlight.
- Keep the device clean and free from dust.

TROUBLESHOOTING

Device Not Charging

Ensure all cables are securely connected. Verify the power source is active. If using solar, ensure the panel is in direct sunlight.

Device Not Powering On

Check the battery level on the display. If the battery is depleted, recharge the unit.

Output Ports Not Working

Ensure the respective DC or AC output buttons are pressed and the indicators are lit. Check the power consumption of your device to ensure it is within the power station's limits.

If issues persist, please contact customer support.

SPECIFICATIONS

Feature	Specification
Model Number	NEO
Battery Capacity	192Wh (60000mAh)

Feature	Specification
Battery Type	LiFePO4
AC Output	2x 300W Pure Sine Wave (600W Surge), 110V
USB-C Output	2x PD (60W Max)
USB-A Output	1x QC 3.0 (18W)
DC Output	2x DC5521 (60W), 1x 12V Car Port
Solar Panel Included	30W High-Efficiency Solar Panel
Dimensions	8.41 x 5.28 x 7.44 inches
Item Weight	5.84 pounds
Charging Cycles	Over 3,500 cycles

WARRANTY & SUPPORT

If you encounter any issues while using your portable power station, please do not hesitate to contact us. We will make every effort to provide a satisfactory solution for you.



Dedicated customer support is available to assist with any product inquiries.

For detailed warranty information, please refer to the product packaging or contact DARAN customer service.