

DARAN NEO300

DARAN NEO300 Portable Power Station User Manual

Model: NEO300

Brand: DARAN

1. INTRODUCTION

The DARAN NEO300 is a compact and versatile portable power station designed to provide reliable power for various applications, including home use, camping, emergencies, and travel. Featuring a durable LiFePO4 battery and multiple output ports, it offers a dependable energy source for your electronic devices and small appliances. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your NEO300 power station.

5-IN-1 POWER STATION

Great Option for Camping



1* AC



1* Car socket



1* Type-C



2* USB-A



The DARAN NEO300 is designed for easy portability, making it convenient to carry wherever power is needed.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the DARAN NEO300. 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, direct sunlight, or extreme temperatures.

- Keep the unit away from water, moisture, and corrosive substances.
- Ensure proper ventilation during use and charging to prevent overheating.
- Use only original or certified charging cables and adapters.
- Keep out of reach of children and pets.
- If the unit emits smoke, strange odors, or unusual noises, discontinue use immediately and contact customer support.

3. PRODUCT OVERVIEW

The DARAN NEO300 features a robust design with multiple input and output ports to accommodate various devices. Familiarize yourself with the components and display indicators for optimal use.

3.1. Components



The DARAN NEO300 portable power station with its main display and various output ports.

LIGHT UP YOUR ADVENTURE

Multiple lighting modes to choose from



The NEO300 offers a versatile array of ports for simultaneous device charging.

3.2. Display Indicators

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

A clear overview of the DARAN NEO300's display, providing essential information at a glance.

- **Battery Level Indicator:** Shows the current charge level.
- **Input/Output Indicator:** Displays power flow into or out of the unit.
- **AC/DC/USB/LED Indicators:** Show which output ports are active.
- **Hibernation Indicator:** Indicates if hibernation mode is active.
- **Solar Charging Indicator:** Lights up when solar input is detected.
- **Alarm Indicator:** Alerts to potential issues (e.g., overload, temperature).

4. SETUP

4.1. Initial Charging

Before first use, it is recommended to fully charge the DARAN NEO300. This ensures optimal battery performance and longevity.

1. Connect the provided AC charging cable to the input port on the power station.
2. Plug the other end of the AC charging cable into a standard wall outlet.
3. The display will show the charging status. The unit is fully charged when the battery indicator shows 100%.

Initial charging typically takes approximately 4 hours via AC wall outlet.

5. OPERATING INSTRUCTIONS

5.1. Turning On/Off

- To turn on the unit, press and hold the main power button until the display illuminates.
- To turn off the unit, press and hold the main power button until the display turns off.

5.2. Using Output Ports

The NEO300 offers various output options:

- **AC Outlet:** Press the AC button to activate the AC output. Plug in your AC-powered devices (e.g., laptops, small appliances).
- **DC Outlet (12V) & Car Socket:** Press the DC button to activate the DC output. Connect 12V devices.
- **USB Ports (USB-A & Type-C PD60W):** These ports are typically active when the unit is on. Simply plug in your USB-powered devices.

5.3. Charging the Power Station

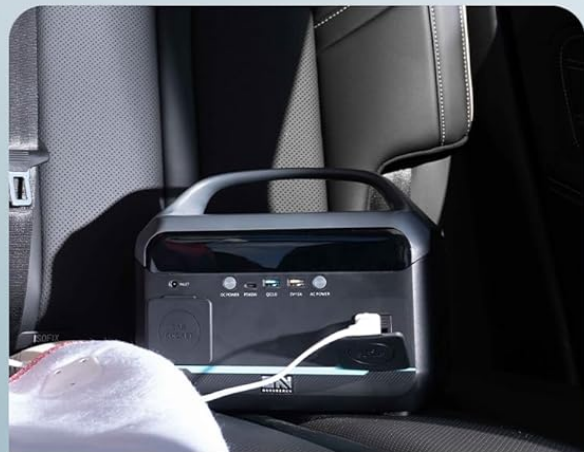
The NEO300 can be recharged in multiple ways:

RECHARGE ANYWHERE

3 Ways to recharge, get Ready effortless



 Solar panel
3-4 Hours



 Car charging
4 Hours

The DARAN NEO300 offers flexible recharging options for convenience.

- **AC Wall Outlet:** Use the included AC adapter and cable. Full charge in approximately 4 hours.
- **Solar Panel:** Connect a compatible solar panel (up to 100W input) to the DC input port. The built-in MPPT controller ensures efficient charging. Charging time is typically 3-4 hours depending on sunlight intensity.
- **Car Charging:** Use a car charger (cigarette lighter adapter) to charge from your vehicle's 12V outlet. Full charge in approximately 4 hours.

5.4. LED Light Modes

The NEO300 includes an integrated LED light with multiple modes:

EASY TO CARRY

Take Power Wherever You Need it



The NEO300's LED light offers versatile illumination for various situations.

- Press the LED button to cycle through 50% brightness, 100% brightness, Strobe mode, and SOS mode.
- Press again to turn off the LED light.

5.5. Hibernation Mode

The NEO300 features a default hibernation mode to conserve power. To disable it for continuous operation:

- Press and hold the AC button.
- While holding the AC button, press the LED button.
- This action will toggle the hibernation mode off, allowing for uninterrupted use. Repeat the process to re-enable hibernation mode.

5.6. Powering Devices

The NEO300 can power a variety of devices. The actual runtime will vary based on the device's power consumption.

268.8Wh/300W

Keep All Your Gears Powered



Mini Fridge (45W)

5.1 Hours



Fan (30W)

7.6 Hours



Inflatable Pump (130W)

1.8 Hours



Drone (50Wh)

4.6 Times



Examples of devices and their estimated usage times with the DARAN NEO300.

Light But Mighty

Only
7.4
lbs



The NEO300 can power multiple devices simultaneously, from drones to laptops.



Drone(40Wh)
5 Times

Phone(10Wh)
23 Times

Camera(16Wh)
13 Times

Mini Fridge(40W)
4.5 Hrs

Laptop(60Wh)
3.5 Times

The NEO300 is suitable for various home and outdoor applications, providing power for essential devices.

Your browser does not support the video tag.

This video demonstrates the DARAN NEO300 portable generator charging devices effectively.

6. MAINTENANCE

6.1. Battery Care

The NEO300 uses a LiFePO4 battery, known for its long lifespan and safety. To maximize battery life:

BATTERY LASTS UP TO 10 YEARS

LiFePO4 Battery

3500 CYCLES



The LiFePO4 battery in the NEO300 is designed for extended durability and a long operational life.

- Charge the unit fully at least once every 3-6 months, even if not in use.
- Avoid completely draining the battery before recharging.
- Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures.

6.2. Cleaning and Storage

- Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure all ports are free of dust and debris.
- When storing for extended periods, ensure the battery is charged to about 50-80%.

7. TROUBLESHOOTING

If you encounter issues with your DARAN NEO300, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	Battery is completely drained; Power button not held long enough.	Charge the unit; Press and hold the power button for 3-5 seconds.
AC output not working	AC output not activated; Device power consumption exceeds 300W; Overload protection triggered.	Press the AC button; Check device wattage; Disconnect device, restart unit.
Unit not charging	Charging cable/adaptor faulty; Input port blocked; Extreme temperature.	Try a different cable/adaptor; Clear debris from port; Move unit to a suitable temperature range (0-40°C).
LED light not working	LED function not activated.	Press the LED button to cycle through modes.

If the problem persists after attempting these solutions, please contact DARAN customer service for further assistance.

8. SPECIFICATIONS

Feature	Detail
Model Name	NEOZL (NEO300)
Battery Type	LiFePO4
Capacity	268.8Wh
AC Output	300W (600W Surge), 110V, 60Hz Pure Sine Wave
DC Output	12V Car Socket
USB-A Output	2 Ports (3.0/5V-3A, MAX.18W)
Type-C Output	PD60W
Solar Input	Up to 100W (MPPT Controller)
Charging Time (AC)	Approx. 4 hours
Dimensions (L x W x H)	10.04" x 8.19" x 6.61"
Weight	7.45 lbs

Feature	Detail
Special Features	Balance Management, Digital Display, Intelligent Temperature Control, Overload Protection, Short Circuit Protection

9. WARRANTY AND CUSTOMER SUPPORT

The DARAN NEO300 Portable Power Station comes with a **3-year warranty** and **5-year quality customer service**. This ensures worry-free use and support for your product.

For any questions, technical assistance, or warranty claims, please contact DARAN customer support through the following channels:

- Refer to the contact information provided in the product packaging.
- Visit the official DARAN store on Amazon: [DARAN Store](#)

Please have your model number (NEO300 or NEOZL) and purchase details ready when contacting support.