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> DaranEner Cubus1000L Portable Power Station User Manual

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Model: Cubus1000L

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your DaranEner Cubus1000L Portable Power Station. Please read this manual thoroughly before using the product and retain it for future reference.

The DaranEner Cubus1000L is a 1000W (2000W Peak) portable power station with a 576Wh LiFePO4 battery, designed for home emergency backup, RV camping, and travel. It features fast charging capabilities and multiple output ports.

SAFETY INSTRUCTIONS

- 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.
- Ensure proper ventilation during use and charging.
- Do not drop, strike, or subject the unit to strong impacts.
- Keep out of reach of children.
- Use only approved accessories and charging cables.

PACKAGE CONTENTS

Verify that all items are present in your package:

- DaranEner Cubus1000L Portable Power Station
- AC Charging Cable
- User Manual (this document)



Image: DaranEner Portable Power Station with included AC Cable and User Manual.

SETUP

Initial Charging

Before first use, fully charge the DaranEner Cubus1000L. The unit supports multiple charging methods:

- **AC Input (240W):** Charges 0-70% in approximately 1.8 hours. Full charge in 2.5 hours.
- **Solar Input (300W Max via XT60):** Charges 0-70% in approximately 1.4 hours. Full charge in 1.9 hours. (Solar panels and cables not included).
- **Car Input (300W Max):** Charges 0-70% in approximately 1.4 hours. (Car charging cable not included).
- **XT60 + AC Combined:** Achieves a full charge in approximately 1 hour.

Connect the appropriate charging cable to the input port on the power station and the power source. The LED display will show the charging status.

Multiple Charging Options

Full in as Fast as 60 min



AC 240W

100% in 2.5 Hrs



XT60 300W

100% in 1.9 Hrs



XT60 + AC

100% in 1 Hr

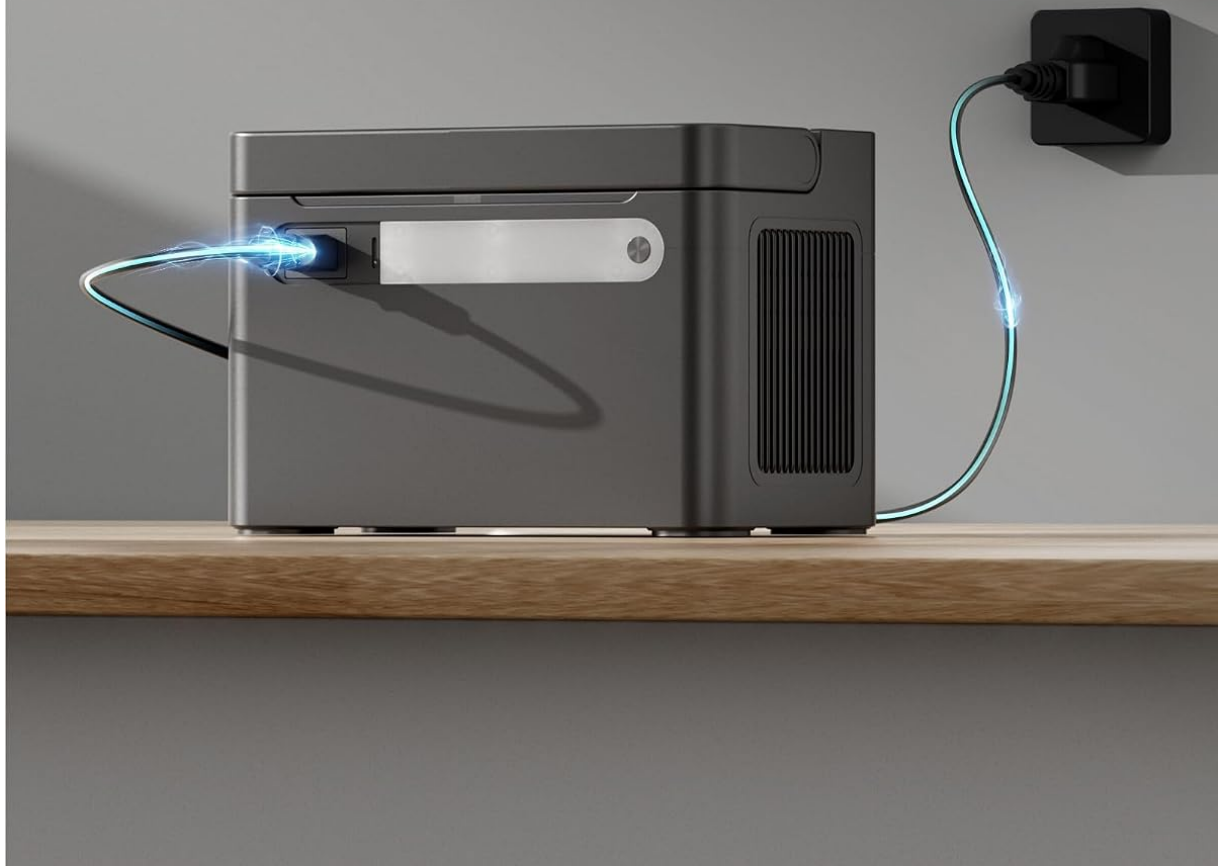


Image: Multiple charging options for the DaranEner 1000W Portable Power Station, including AC, XT60 solar, and combined XT60 + AC, with charging times.

Understanding the LED Screen Display

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

- **Battery Percentage:** Shows the current charge level.
- **Output Status:** Indicates if AC, USB, or DC outputs are active.
- **Temperature Monitor:** Displays the internal temperature.
- **Warning Indicators:** Alerts to potential issues such as overload or overheating.



Image: Detailed view of the DaranEner Portable Power Station's LED screen display, showing battery percentage, output status, temperature monitor, and warning indicators.

OPERATING INSTRUCTIONS

Powering On/Off

To power on the unit, press and hold the main power button until the LED screen illuminates. To power off, press and hold the main power button again until the screen turns off.

Connecting Devices

The DaranEner Cubus1000L offers a variety of output ports:

- **AC Outlets (4x 1000W):** For standard home appliances.
- **USB-C Ports (2x, including 100W PD):** For fast charging laptops, smartphones, and other USB-C devices.
- **USB-A Ports (2x 18W):** For charging various USB-A devices.
- **XT60 Port (120W):** For DC appliances.

Plug your devices into the appropriate ports. Activate the specific output (AC, USB, DC) by pressing the corresponding button on the control panel. The LED screen will indicate active outputs.

Max Input 300W

Max Output 1000W



**AC Input
(240W)**



**Solar Input XT60
(300W)**



**Car Input
(300W)**



**AC x4
(1000W)**



**XT60
(120W)**



**Type-C1/C2
(100W/18W)**



**USB-A x2
(18W)**



Image: Input and output ports of the DaranEner 1000W Portable Power Station, showing AC, Solar, Car inputs and AC, XT60, USB-C, USB-A outputs.

Powering Appliances

The Cubus1000L can power a wide range of devices. For optimal performance and to avoid overloading, ensure the total wattage of connected devices does not exceed 1000W (2000W peak).



Image: DaranEner 1000W Solar Generator powering a coffee maker, microwave, and blender, illustrating its capacity for various appliances.

Your browser does not support the video tag.

Video: Demonstrates connecting and charging a smartphone using the DaranEner portable power station.

MAINTENANCE

Battery Care

The DaranEner Cubus1000L uses a LiFePO4 battery, known for its longevity and safety. To maximize battery lifespan:

- Recharge the unit at least once every 3-6 months, even if not in use, to maintain battery health.

- Avoid fully discharging the battery frequently.
- Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures.

10-Year Lifespan LFP Battery

3500 cycles to 80%+ capacity



LFP
battery



3000+
cycles



Battery
Management
System

3500+ CYCLES



Image: Diagram illustrating the 10-year lifespan of the LiFePO₄ battery with 3500+ cycles and Battery Management System (BMS).

LiFePO4 Battery Safer

LiFePO4 Battery



Superior fire resistance
(700°).



Excellent lifespan
(10+ years, slow fade).



Highly stable,
low maintenance.



Heavy-metal-free,
environmentally friendly.

NCM Battery



Moderate risk under
stress (120°).



Good lifespan
(1-3 years, faster fade).



Requires careful
charging management.



have nickel and cobalt in
them, which can be risky.

Image: Comparison chart highlighting the superior fire resistance, lifespan, stability, and environmental friendliness of LiFePO4 batteries compared to NCM batteries.

Cleaning

Use a dry, soft cloth to clean the exterior of the power station. Do not use abrasive cleaners or immerse the unit in water.

TROUBLESHOOTING

Common Issues and Solutions

- **Unit not turning on:** Ensure the battery is charged. If not, connect to a power source using the AC charging cable.

- **No output from ports:** Verify that the specific output (AC, USB, DC) is activated by pressing its respective button. Check if the device is properly connected.
- **Overload warning:** If the unit displays an overload warning, disconnect some devices. The Cubus1000L will not support continuous output over 1000W.
- **Overheating warning:** If the temperature monitor shows high temperatures, disconnect devices and allow the unit to cool down in a well-ventilated area.

Refer to the LED screen for specific warning indicators and error codes.

WILL NOT SUPPORT CONTINUOUS OUTPUT OVER 1000W



HOME ESPRESSO MACHINES



SPACE HEATER



HAIR DRYER



INDUCTION COOKTOP



ELECTRIC KETTLE



AIR FRYER



WINDOW AC



BLENDER



IMMERSION HEATER

Please check your device's wattage before use.

Supports 600W-900W portable or drip coffee makers.

Not compatible with high-power espresso machines (1200W-1500W).

Supports <1000W small heater/kettle.

Not compatible with high-power home space heater/large kettle (1200W-1500W).

Image: Warning graphic showing examples of high-power appliances (e.g., home espresso machines, space heaters, hair dryers, induction cooktops, electric kettles, air fryers, window AC units, blenders, immersion heaters) that are not

compatible with continuous output over 1000W. It notes compatibility with 600W-900W portable or drip coffee makers and small heaters/kettles under 1000W.

SPECIFICATIONS

Feature	Detail
Model Name	Cubus1000L
Battery Capacity	576Wh (82.28 Amp Hours)
Battery Cell Type	LiFePO4 (Lithium-Phosphate)
AC Output	1000W (2000W Peak)
Max AC Input	240W
Solar Recharging	300W (Max)
Voltage	120 Volts
Item Weight	14.8 Pounds (6.7 kg)
Dimensions (L x W x H)	11.1 x 7.83 x 7.52 inches
Operating Noise	~20dB when power draw is under 200W

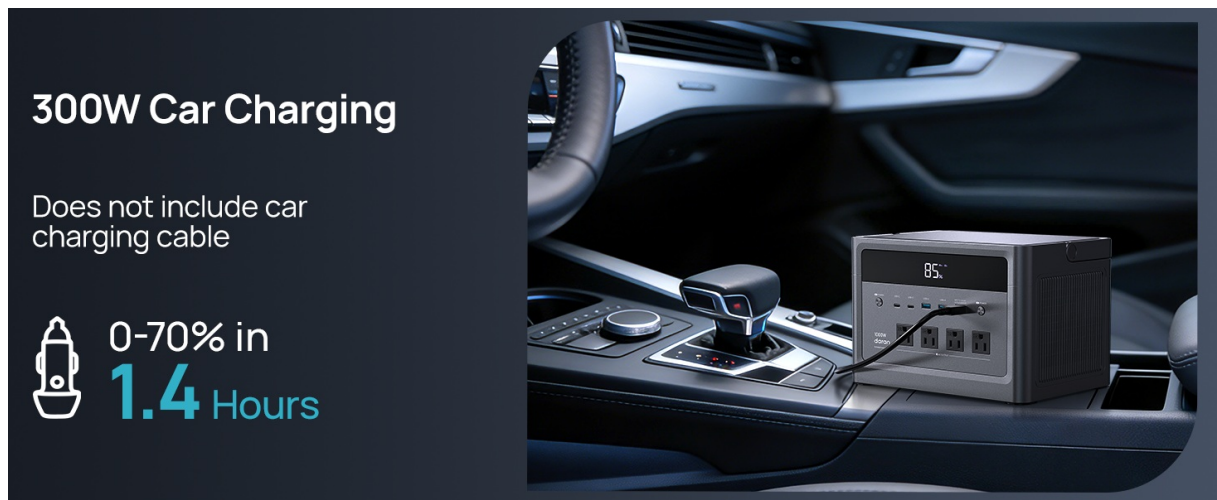


Image: DaranEner Cubus1000 Portable Power Station dimensions and key specifications.

WARRANTY

The DaranEner Cubus1000L is built with high-quality LiFePO4 battery cells rated for 3,500+ cycles, providing over a decade of daily use. For detailed warranty information, including terms and conditions, please refer to the official DaranEner website or contact customer support directly. Keep your purchase receipt as proof of purchase.

SUPPORT

If you encounter any issues or have questions regarding your DaranEner Cubus1000L Portable Power Station, please contact DaranEner customer service. Our support team is available to assist you and aims to respond within 24 hours.

- Visit the official DaranEner website for FAQs and support resources.

- Contact us via the support email or phone number provided on our website.

Your browser does not support the video tag.

Video: Demonstrates the LED light feature of the DaranEner 1000W Portable Power Station.

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