

## Ecosonique Technology P303

# Ecosonique P303 Portable Power Station User Manual

Model: P303 | Brand: Ecosonique Technology

## 1. INTRODUCTION

The Ecosonique P303 Portable Power Station is a versatile and reliable power source designed to provide electricity for various applications, including outdoor activities like camping, travel, and hunting, as well as indoor emergency backup during power outages. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your P303 power station. Please read this manual thoroughly before using the device.



Image: The Ecosonique P303 Portable Power Station, a compact and robust device with multiple output ports and a carrying handle.

## 2. PRODUCT OVERVIEW

### 2.1 Components and Ports



### 1 100W PD 3.0 Output



(iPhone 12) can be charged from 0 to 50% within 30 mins.



(Macbook Pro 13') Can be fully charged within 2 hrs.

2 18W QC 3.0 Output × 1  
10W USB-A Output × 2

3 LED Display

4 12V DC5521 Output × 4

5 12V Car charging Port × 1

6 300W 110V AC outlet × 4

7 DC Input

8 Cooling fan

9 18W 500lm LED Light

Image: Diagram illustrating the various components and ports of the Ecosonique P303 Portable Power Station, including output ports, LED display, and cooling fan.

1. **100W PD 3.0 Output:** USB-C port for fast charging compatible devices.
2. **18W QC 3.0 Output:** USB-A port for quick charge compatible devices.
3. **10W USB-A Output:** Standard USB-A ports for charging various devices.
4. **LED Display:** Shows battery level, input/output wattage, and status indicators.
5. **12V DC5521 Output:** Four DC ports for compatible 12V devices.
6. **12V Car Charging Port:** Standard car cigarette lighter socket.
7. **300W 110V AC Outlet:** Four standard AC outlets for household appliances.
8. **DC Input:** Port for charging the power station via AC adapter or car charger.
9. **Cooling Fan:** Activates automatically to dissipate heat during operation.
10. **18W 500lm LED Light:** Built-in light with multiple modes for illumination.

## 2.2 Key Features

- **Fast Charging Capability:** Equipped with a 100W PD 3.0 output port, allowing rapid charging of devices like smartphones and laptops.
- **CPAP Support:** Provides stable power for CPAP machines for extended periods (up to 18 hours with a 15W CPAP and DC-DC converter).

- **Advanced Battery Management System (BMS):** Ensures reliable power safety with built-in overload, over-voltage, overcharge, and short-circuit protection.
  - **Multiple Recharging Modes:** Supports recharging via AC wall outlet, car charger, and solar panel (sold separately) with a built-in MPPT controller for optimal solar charging efficiency.
  - **Multifunctional Emergency Lights:** Features an 18W 500lm LED light with four modes (low, medium, high, SOS) for various lighting needs.
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### 3. SAFETY INSTRUCTIONS

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To ensure safe operation and prolong the lifespan of your Ecosonique P303 Power Station, please adhere to the following safety guidelines:

- Do not disassemble, repair, or modify the unit. Incorrect assembly may cause fire, explosion, or injury.
  - Keep the device away from fire, heat sources, and direct sunlight. Store in a cool, dry, and well-ventilated area.
  - Avoid exposure to water, rain, or high humidity.
  - Do not use the device in environments with strong static electricity or magnetic fields.
  - Ensure proper ventilation during use. Do not block the cooling fan vents.
  - Use only the provided or approved charging cables and adapters.
  - Keep out of reach of children and pets.
  - If the device emits smoke, unusual odors, or makes abnormal noises, immediately stop use and contact customer support.
  - Do not drop, puncture, or subject the device to strong impacts.
  - Dispose of the product according to local regulations for lithium-ion batteries.
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### 4. SETUP

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#### 4.1 Unboxing and Initial Inspection

Upon receiving your Ecosonique P303 Power Station, carefully unpack all components and inspect for any signs of damage. The package should include:

- 1 × Ecosonique Tech P303 Power Station
- 1 × AC Adapter
- 1 × Car Charger Cable
- 1 × DC-DC Converter
- 1 × User Manual

## ABUNDANT ACCESSORIES



- |                                   |                        |
|-----------------------------------|------------------------|
| 1 P303 Portable Power Station × 1 | 2 P303 User Manual × 1 |
| 3 AC Adapter × 1                  | 4 DC power cord × 1    |
| 5 Car Charger × 1                 | 6 Packing Box × 1      |

Image: A visual representation of the Ecosonique P303 Portable Power Station and its included accessories: AC adapter, car charger cable, DC power cord, and user manual.

## 4.2 Initial Charging

It is recommended to fully charge the Ecosonique P303 Power Station before its first use to optimize battery performance and lifespan. Refer to the 'Charging the Power Station' section for detailed instructions.

## 5. OPERATING INSTRUCTIONS

## 5.1 Charging the Power Station

The P303 offers three methods for recharging:



# RELIABLE SOLAR POWER SUPPLY

## Advanced Battery Management System



Over Temperature  
Protection (65°C max)



Over Current  
Protection



Short Circuit  
Protection



Over Voltage  
Protection (AC 100V max)



Over Power  
Protection (Total 300W max)



Image: Visual guide demonstrating the three methods to recharge the EcoSonic P303 Portable Power Station: via solar panel, car charger, and AC wall adapter.

- **AC Wall Outlet (60W):** Connect the provided AC adapter to the DC input port and plug it into a standard wall outlet. Full charge typically takes 7-8 hours.
- **Car Charger (30W):** Use the provided car charger cable to connect the DC input port to your vehicle's 12V cigarette lighter socket. Full charge typically takes 10-12 hours.
- **Solar Panel (100W, sold separately):** Connect a compatible solar panel (below 18V/300W) to the DC input port. The built-in MPPT controller optimizes charging efficiency. Full charge typically takes 5-6 hours with a 100W solar panel under optimal sunlight.

## 5.2 Using the Output Ports

To use any output port, ensure the power station is turned on. Press the respective power button for AC, DC, or USB outputs. The LED display will show the active output and current power consumption.

# 3 WAYS FOR SUPER FAST CHARGING

High Charging Efficiency and Safe Battery Protection



Solar Panel(100W)  
5~6hrs (Fully Charged)



Car Charger(30W)  
10~12hrs (Fully Charged)



AC Adapter(60W)  
7~8hrs (Fully Charged)



※ Compatible with PD chargers on the market

Image: Infographic detailing the large capacity of the Ecosonique P303 (296Wh/80000mAh) and the estimated number of charges or hours of use for various devices across its 13 output ports.

- **AC Outlets:** For devices requiring 110V AC power, up to 300W total.
- **USB-C PD 100W:** For fast charging laptops, tablets, and smartphones.
- **USB-A (QC 3.0 & Standard):** For charging various USB-powered devices.
- **DC5521 & Car Port:** For 12V DC devices, such as mini-fridges or CPAP machines (using the included DC-DC converter for CPAP is recommended for efficiency).



# POWER CPAP ANYTIME, ANYWHERE

Support CPAP(15W) for 18 hrs with  
heater/humidifier off



CPAP DC power cord is strongly recommended  
DC power cord included in package

Image: An individual using the Ecosonique P303 Portable Power Station to power a CPAP machine, highlighting its suitability as a medical device backup.

## 5.3 LED Light Operation

The built-in 18W 500lm LED light can be activated by pressing its dedicated button. Cycle through the modes by pressing the button repeatedly:



# 4 LIGHTING MODES

18W big LED light  
Enough to evenly light up a space up to 50~60m<sup>2</sup>



Image: Illustration of the four lighting modes (Low, Medium, High, SOS) available on the Ecosonique P303 Portable Power Station's built-in LED light.

- **Low Brightness**
- **Medium Brightness**
- **High Brightness**
- **SOS Signal Light** (flashing pattern for emergencies)

## 6. 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. The ideal storage temperature is between -10°C and 40°C (14°F to 104°F).
- **Battery Health:** To maintain battery health, fully charge the unit every 3-6 months, even if not in use. Avoid completely depleting the battery for extended periods.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the power station. Do not use abrasive cleaners or solvents. Ensure vents are free from dust and debris.

- **Avoid Overloading:** Do not exceed the maximum output wattage (300W AC). Overloading can trigger safety protections and potentially damage the unit.

## 7. TROUBLESHOOTING

If you encounter issues with your Ecosonique P303, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Power station not turning on	Battery is completely depleted.	Connect to an AC adapter or car charger for a few minutes to initiate charging.
No output from AC/DC/USB ports	Output port not activated; Device connected exceeds power station's capacity; Power station battery is low.	Ensure the specific output button (AC, DC, USB) is pressed. Check device wattage. Recharge the power station.
Charging slowly or not at all	Incorrect charger/cable; Solar panel not in direct sunlight or incompatible; High ambient temperature.	Use original or compatible chargers. Ensure solar panel is optimally positioned. Charge in a cooler environment.
Cooling fan is noisy	Normal operation under heavy load; Fan malfunction.	The fan may run louder when dissipating heat from high power output. If noise is excessive or constant at low load, contact support.
LED display not working	Unit is off; Display malfunction.	Ensure the unit is powered on. If still unresponsive, contact customer support.

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

## 8. SPECIFICATIONS

Feature	Specification
Model Name	Ecosonique Tech P303 Portable Power Station
Battery Capacity	296Wh (80000mAh)
Battery Type	Lithium Ion (32 cells included)
AC Output	4 x 110V, 300W (Pure Sine Wave)
USB-C Output	1 x PD 100W
USB-A Output	1 x QC 3.0 (18W), 2 x 10W
DC Output	4 x DC5521 (12V/10A), 1 x Car Port (12V/10A)
Charging Input	DC Input (AC Adapter, Car Charger, Solar Panel with MPPT)

Feature	Specification
Dimensions (L x W x H)	8.82" x 5.94" x 7.28"
Item Weight	6.6 lbs (3.1 Kilograms)
LED Light	18W 500lm (Low, Medium, High, SOS modes)
Certifications	FCC, UL
Operating Temperature	0°C to 40°C (32°F to 104°F)

## 9. WARRANTY AND SUPPORT

### 9.1 Warranty Information

The Ecosonique P303 Portable Power Station comes with an **18-month warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.



### 9.2 Customer Support




For any questions, technical assistance, or warranty claims, please contact Ecosonique Technology customer support. Please have your purchase receipt and product model number (P303) ready when contacting support.

You can find contact information on the official Ecosonique Technology website or through your retailer.

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### Related Documents - P303

	<p><a href="#">Ecosonique P303 Portable Power Station User Manual</a></p> <p>User guide for the Ecosonique P303 portable power station, detailing its features, charging methods, operation, and safety precautions. This 300W pure sine wave generator is suitable for camping, outdoor activities, and emergency backup.</p>			
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FOSSiBOT F2400	2400W	2048Wh		

	<p><a href="#">Portable Power Technology Pro Series User Manual: Features, Operation, and Safety</a></p> <p>Comprehensive user manual for the Portable Power Technology Pro Series power stations (Pro 1000, 1500, 2000, 3000). Covers product features, technical specifications, operating instructions, safety precautions, maintenance, troubleshooting, and warranty information.</p>
	<p><a href="#">Yoshino B2000 SST Portable Power Station User Manual</a></p> <p>Comprehensive user manual for the Yoshino B2000 SST Solid-State Portable Power Station, covering setup, operation, safety, specifications, troubleshooting, and warranty information.</p>
	<p><a href="#">FOSSiBOT F2400 Portable Power Station User Manual   Specs, Features, and Troubleshooting</a></p> <p>Comprehensive user manual for the FOSSiBOT F2400 Portable Power Station. Learn about its features, specifications, charging methods (AC, solar, car), UPS mode, troubleshooting, and warranty.</p>
	<p><a href="#">OM-600 Portable Power Station User Manual</a></p> <p>Comprehensive user manual for the OM-600 portable power station by Dongguan Ommo Technology Co., Ltd., covering specifications, operation, charging, troubleshooting, and maintenance.</p>

Documents - Ecosonique Technology – P303



[Ecosonique P303 Portable Power Station User Manual](#)

User guide for the Ecosonique P303 portable power station, detailing its features, charging methods, operation, and safety precautions. This 300W pure sine wave generator is suitable for camping, outdoor activities, and emergency backup.

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