

CTOLITY AP2000

CTOLITY AP2000 Portable Power Station User Manual

Model: AP2000

INTRODUCTION

Thank you for choosing the CTOLITY AP2000 Portable Power Station. This device is designed to provide reliable power for various applications, including camping, home backup, and emergency situations. Featuring a 2048Wh LiFePO4 battery, 2600W AC output, and multiple charging options, the AP2000 offers versatile and efficient power solutions. Please read this manual thoroughly before operating the device to ensure safe and optimal performance.



Image: The CTOLITY AP2000 Portable Power Station, showcasing its design and the included solar panel option.

SAFETY INSTRUCTIONS

To ensure safe operation and prolong the lifespan of your CTOLITY AP2000, please adhere to the following safety guidelines:

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Do not place the unit near fire or expose it to heat. Keep out of direct sunlight.
- Do not charge, use, or store the unit in a bathroom or an area exposed to water.
- Use only the provided or approved accessories.
- Do not use the unit if it is damaged or has been dropped.
- Keep the unit away from children and pets.
- Ensure proper ventilation during use and charging. Do not cover the unit.
- Avoid extreme temperatures. Operate and store the unit within the recommended temperature range.
- In case of fire, use a dry powder fire extinguisher.

PACKAGE CONTENTS

Verify that all items are included in your package:

- CTOLITY AP2000 Power Station
- AC Adapter
- Car Charger Cable
- SolarSaga Parallel Adapter Cable
- User Manual (This document)

PRODUCT OVERVIEW

The CTOLITY AP2000 features a robust design with multiple input and output ports to accommodate various devices. The front panel includes a digital display for monitoring status and controls for different output sections.



Image: An overview of the AP2000's key features, including its LiFePO4 battery, rapid charging capability, and various output ports.

Ports and Display

- **AC Output Ports (4x 2400W):** For powering standard household appliances.
- **USB-A Ports:** For charging smartphones, tablets, and other USB-powered devices.
- **USB-C (PD) Ports:** For fast charging compatible devices.
- **DC Output Ports (12V/10A):** For automotive and other 12V DC devices.
- **Car Port (12V/10A):** For car appliances.
- **DC Input (12-60V):** For solar panel or car charging.
- **AC Input:** For wall outlet charging.
- **Digital Display:** Shows battery level, input/output wattage, and status indicators.

SETUP

Before first use, fully charge your CTOLITY AP2000. Unpack the unit and place it on a stable, flat surface with adequate ventilation.

1. **Initial Charge:** Connect the AC adapter to the AC input port on the power station and plug it into a wall outlet. The digital display will show the charging status.
2. **Full Charge:** Allow the unit to charge until the display indicates 100%. This typically takes about 2 hours with 1000W Turbo Charging.
3. **Placement:** Ensure the power station is placed in a dry, well-ventilated area, away from direct sunlight or heat sources.

OPERATING INSTRUCTIONS

Charging the AP2000

The AP2000 supports multiple charging methods:

- **AC Wall Outlet Charging:** Connect the provided AC adapter to the AC input port. The unit supports 1000W Turbo Charging, allowing a 0-100% charge in approximately 2 hours.
- **Solar Panel Charging:** Connect compatible solar panels (up to 600W max input) to the DC input port using the SolarSaga Parallel Adapter Cable. The integrated MPPT controller optimizes solar input for efficient charging, achieving a full recharge in about 4 hours under optimal sunlight.
- **Car Charging:** Connect the car charger cable to the DC input port and plug it into your vehicle's 12V cigarette lighter socket.

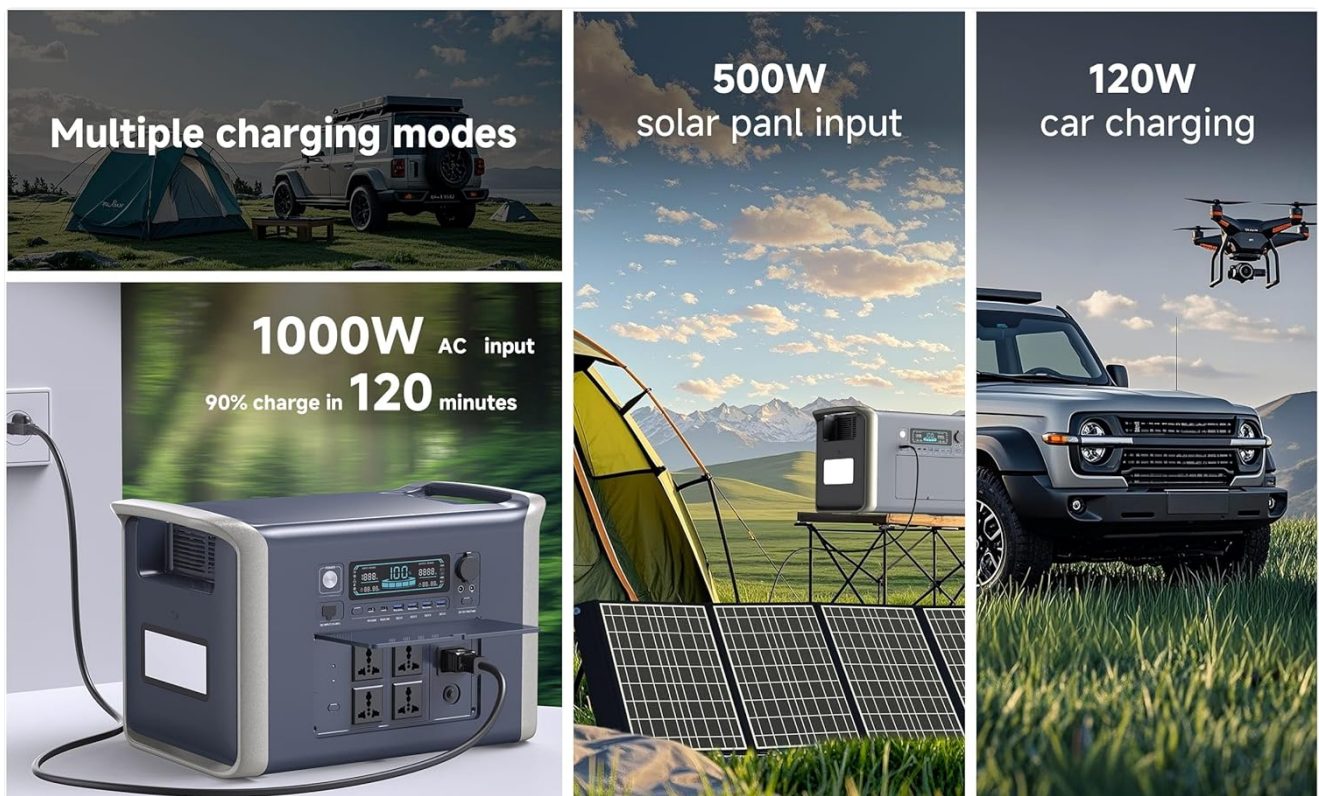


Image: Visual representation of the AP2000 being charged via AC wall outlet, solar panels, and a car charger.

Discharging (Powering Devices)

To power your devices, press the corresponding output button (AC, DC, or USB) to activate the ports. The digital display will show the output wattage.

- **AC Output:** Connect devices requiring up to 2400W (4x 2400W AC outlets) to the AC ports. Ensure the total wattage does not exceed the unit's capacity.
- **DC Output:** Connect 12V DC devices to the DC ports or car port.
- **USB Output:** Connect USB devices to the USB-A or USB-C (PD) ports.

Uninterruptible Power Supply (UPS) Function

The AP2000 features an EPS (Emergency Power Supply) function, providing an uninterruptible power supply for critical devices. When connected to an AC wall outlet and powering devices simultaneously, if the grid power fails, the AP2000 will automatically switch to battery power within 20 milliseconds, ensuring continuous operation for connected devices.



Image: The AP2000 acting as an Uninterruptible Power Supply (UPS) for a computer setup, highlighting its rapid auto-switch capability.

MAINTENANCE

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

- **Storage:** If storing for extended periods, charge the unit to 50-80% every 3-6 months to maintain battery health. Store in a cool, dry place away from direct sunlight.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use liquids or abrasive cleaners.
- **Battery Life:** The LiFePO4 battery is designed for over 3,000 cycles to 80% capacity retention, offering a lifespan of more than 10 years with proper care.



Image: Information on the durable LiFePO4 battery, emphasizing its long cycle life and extended operational lifespan.

TROUBLESHOOTING

If you encounter issues with your CTOLITY AP2000, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit not turning on	Battery depleted; Power button not pressed correctly	Charge the unit; Press and hold the power button for 3 seconds.
AC output not working	AC output not enabled; Overload protection triggered; Device wattage too high	Press the AC output button; Reduce connected load; Check device wattage.
Slow charging via solar	Insufficient sunlight; Panels not optimally angled; Dirty panels; Incorrect connection	Ensure direct sunlight; Adjust panel angle; Clean panels; Verify cable connections.
Unit overheating	Poor ventilation; Excessive load	Ensure clear vents; Reduce load; Move to a cooler environment.

If the problem persists, please contact customer support.

SPECIFICATIONS

Detailed technical specifications for the CTOLITY AP2000 Portable Power Station:

Feature	Detail
Model	AP2000


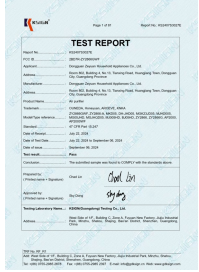
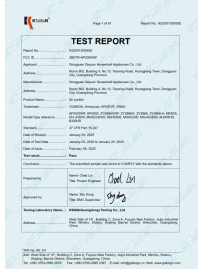
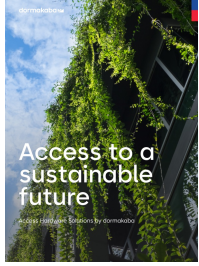

Feature	Detail
Battery Capacity	2048Wh
Battery Type	LiFePO4 (Lithium Iron Phosphate)
AC Output	4x 2400W (Pure Sine Wave, 3000W Peak)
DC Output	12V/10A
Car Port Output	12V/10A
USB Ports	Multiple USB-A and USB-C (PD) ports
AC Input (Charging)	1000W Turbo Charging (0-100% in 2 hours)
Solar Input (Charging)	600W Max (MPPT, full recharge in 4 hours)
Car Input (Charging)	12V
UPS Function	EPS (<20ms auto-switch)
Dimensions	20"L x 12"W x 12"H
Weight	60 Pounds
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Safety Features	16-Layer BMS (Overcharge/over-discharge/short-circuit/overheating protection), Fireproof V0 shell

WARRANTY AND SUPPORT

The CTOLITY AP2000 Portable Power Station comes with a **2-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or any questions regarding your product, please contact CTOLITY customer service through the retailer where you purchased the product or visit the official CTOLITY website for contact information.

Please have your purchase receipt and product model number (AP2000) ready when contacting support.

	<p>Dongguan Zeyuan Air Purifier Model Difference Statement</p> <p>Statement from Dongguan Zeyuan Household Appliances Co., Ltd. detailing model differences for their Air Purifier product line, including models like AP2000WF and ZY2866 series, confirming shared core components and performance.</p>
	<p>Test Report: Dongguan Zeyuan Household Appliances Air Purifier (Model ZY2866GWF)</p> <p>This document is a test report for the Dongguan Zeyuan Household Appliances Air Purifier, model ZY2866GWF. It details compliance testing results according to FCC Part 15.247 and ANSI C63.10-2013 standards.</p>
	<p>KSIGN Test Report for OUNEDA AP2000WF Air Purifier - FCC Compliance</p> <p>Official test report from KSIGN (Guangdong) Testing Co., Ltd. for the OUNEDA AP2000WF Air Purifier. Details FCC Part 15.247 and ANSI C63.10-2013 compliance, including RF parameters, for model AP2000WF and related variants manufactured by Dongguan Zeyuan Household Appliances Co., Ltd. FCC ID: 2BD7R-AP2000WF.</p>
	<p>dormakaba Access Hardware Solutions: Sustainability and Environmental Impact</p> <p>Explore dormakaba's commitment to sustainability, its circular economy approach, and detailed environmental impact factsheets for its access hardware solutions, including door closers and locks.</p>
	<p>Generators and Portable Power Stations Product Catalog</p> <p>A comprehensive list of generators and portable power stations, detailing brands, model numbers, and model names from various manufacturers.</p>