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CTOLITY AP2000

CTOLITY AP2000 Portable Power Station User Manual

Model: AP2000

WELCOME TO YOUR CTOLITY AP2000 PORTABLE POWER STATION

The CTOLITY AP2000 Portable Power Station is designed to provide reliable and efficient power for various applications, from home backup to outdoor adventures. With a robust 2048Wh capacity and 2400W output, it supports a wide range of devices. This manual provides essential information for safe and optimal use of your power station.



CTOLITY AP2000 Portable Power Station in an outdoor setting, highlighting its portability for camping and outdoor activities.

IMPORTANT SAFETY INFORMATION

Please read and understand all safety instructions before operating your CTOLITY AP2000 Portable Power Station. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Read all instructions before use.
- Do not disassemble, repair, or modify the unit.
- Keep away from fire, heat sources, and direct sunlight.
- Avoid exposure to water or high humidity.
- Use only specified charging cables and adapters.
- Ensure proper ventilation during use and charging.
- Keep out of reach of children and pets.
- Dispose of the product according to local regulations.

WHAT'S INCLUDED

Verify that all items are present in your package:

- AP2000 Power Station
- AC Adapter
- Car Charger Cable
- SolarSaga Parallel Adapter Cable
- User Manual

PRODUCT FEATURES AND COMPONENTS

The CTOLITY AP2000 features a comprehensive interface for power management and device connectivity.



Front view of the CTOLITY AP2000 Portable Power Station, displaying the digital screen, AC outlets, DC outputs, USB ports, and input ports.

The digital display provides real-time information on input/output power, battery level, and operational status. Multiple output ports, including AC, USB-A, USB-C, and DC, allow for versatile device charging.

INITIAL SETUP

Follow these steps to prepare your power station for first use:

1. Unpack the power station and all accessories.
2. Before first use, fully charge the power station using the provided AC adapter until the battery indicator shows 100%.
3. Place the power station on a stable, flat surface with adequate ventilation.

OPERATION GUIDE

Charging the Power Station

The AP2000 offers multiple charging options to suit your needs.



Illustration of the CTOLITY AP2000 being charged via AC wall outlet, solar panels, and a car charger, demonstrating its versatile charging capabilities.

AC Charging

Connect the AC adapter to the AC input port on the power station and then to a wall outlet. The display will indicate charging status. A full charge can be achieved in approximately 2 hours.

Solar Charging

Connect compatible solar panels (up to 1200W, depending on model) to the DC input port using the provided SolarSaga Parallel Adapter Cable. Position solar panels in direct sunlight for optimal charging efficiency. The display will show solar input wattage.

Car Charging

Connect the car charger cable to the car's 12V auxiliary power outlet and the DC input port on the power station. This method is suitable for charging while traveling.

Using the Power Station

To power your devices, simply connect them to the appropriate output ports on the AP2000. Press the power button for the desired output section (AC, DC, USB) to activate it.

- **AC Output:** For household appliances and electronics requiring 110V AC power. Ensure the total wattage does not exceed 2400W (4800W surge).
- **USB Output:** For charging smartphones, tablets, and other USB-powered devices. Includes USB-A (QC3.0) and USB-C ports.
- **DC Output:** For devices requiring 12V DC power, such as car refrigerators or portable air pumps.

Emergency Power Supply (EPS) Function

The AP2000 features an Uninterruptible Power Supply (UPS) function, also known as EPS, with a switchover time of less than 20ms. This allows it to provide continuous power to connected devices during a power outage.

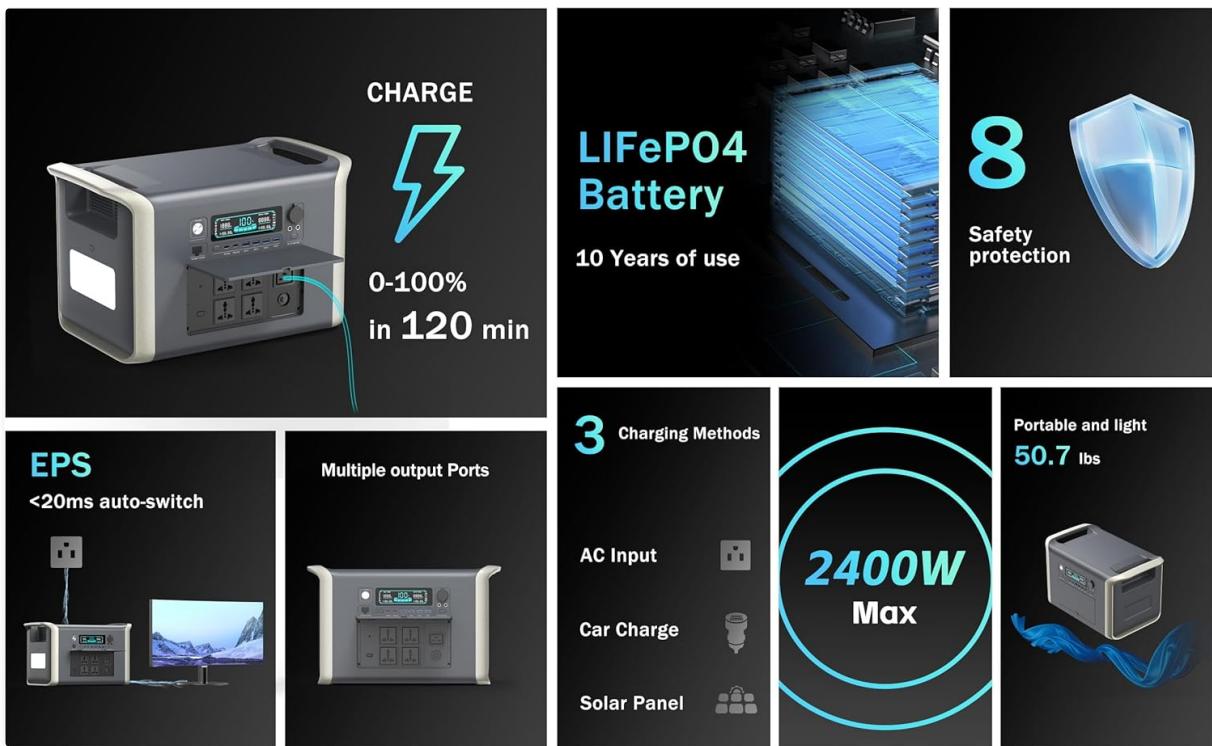


Diagram illustrating the Emergency Power Supply (EPS) function of the CTOLITY AP2000, showing seamless power transfer to a connected monitor and computer during a grid power interruption.

To use EPS, connect the power station to a wall outlet and then connect your critical devices to the AC output ports of the power station. In case of a power failure, the AP2000 will automatically switch to battery power.

CARE AND MAINTENANCE

Proper care ensures the longevity and optimal performance of your CTOLITY AP2000 Portable Power Station.



Image depicting a forest with text emphasizing the 10-year lifespan and 3000+ charge cycles of the LiFePO4 battery used in the CTOLITY AP2000.

- Storage:** Store the power station in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to 50-80% every 3-6 months to maintain battery health.
- Cleaning:** Use a dry, soft cloth to clean the exterior of the power station. Do not use liquid cleaners or immerse the unit in water.
- Battery Health:** The AP2000 uses a durable LiFePO4 battery designed for over 3000 charge cycles before capacity drops to 80%. Avoid fully discharging the battery frequently to maximize its lifespan.
- Ventilation:** Ensure the ventilation vents are not blocked during operation or charging to prevent overheating.

TROUBLESHOOTING GUIDE

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

Problem	Possible Cause	Solution
Power Station not turning on	Battery fully discharged; Power button not pressed correctly.	Charge the power station; Press and hold the main power button for 3 seconds.
Devices not charging from AC outlets	AC output not activated; Device wattage exceeds 2400W; Overload protection triggered.	Press the AC power button; Check device wattage; Disconnect devices, restart power station.
Solar charging not working	Solar panels not connected properly; Insufficient sunlight; Damaged solar panel or cable.	Ensure secure connections; Reposition panels for direct sunlight; Test with different panels/cables if available.
Overheating warning on display	Blocked ventilation; High ambient temperature; Excessive load.	Ensure vents are clear; Move to a cooler environment; Reduce connected load.

TECHNICAL SPECIFICATIONS

Feature	Detail
Model Name	AP2000
Battery Type	LiFePO4
Capacity	2048Wh
AC Output (Rated)	2400W
AC Output (Surge)	4800W
Voltage	110 Volts

Feature	Detail
Charging Time (AC)	Approx. 2 hours (0-100%)
Solar Input	Up to 1200W (depending on kit)
Product Dimensions	19"L x 11.8"W x 11.8"H
Item Weight	Approx. 57.32 lb (26 kg)
Cycle Life	3000+ cycles to 80% capacity
Special Features	Automatic Idle Control, Automatic Shut Down, Automatic Voltage Regulation, Digital Display, Electric Start, Electronic Speed Control, Overload Protection, Portable, USB Port, EPS Function (<20ms)

WARRANTY INFORMATION

The CTOLITY AP2000 Portable Power Station comes with a **2-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For detailed warranty terms and conditions, please refer to the official CTOLITY website or contact customer support.

CUSTOMER SUPPORT

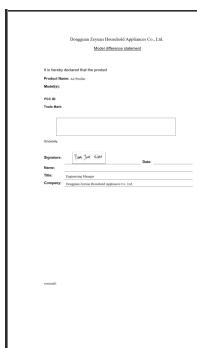
If you have any questions, require technical assistance, or need to make a warranty claim, please contact CTOLITY customer support.

Website: [\[Insert CTOLITY Official Website Here\]](#)

Email: [\[Insert Support Email Here\]](#)

Phone: [\[Insert Support Phone Number Here\]](#)

Related Documents - AP2000

	<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>
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	<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>
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	<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>