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› UDPOWER C400 Portable Power Station with 40W Solar Panel User Manual

UDPOWER AC0400

UDPOWER C400 Portable Power Station with 40W Solar Panel User Manual

Model: AC0400

INTRODUCTION

The UDPOWER C400 Portable Power Station is a versatile and reliable power solution designed for various applications, including camping, RV trips, outdoor activities, and emergency power backup. This manual provides essential information on setting up, operating, maintaining, and troubleshooting your device to ensure safe and efficient use. The bundle includes a 40W solar panel for sustainable charging.

SAFETY INFORMATION

- Read all instructions before using the product.
- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire, water, and extreme temperatures.
- Use only recommended accessories and charging cables.
- Ensure proper ventilation during use and charging.
- Keep out of reach of children.
- Avoid dropping or subjecting the unit to heavy impacts.

WHAT'S IN THE BOX

- 1x UDPOWER C400 Portable Power Station
- 1x UDPOWER 40W Solar Panel
- 1x UDPOWER Original DC Adapter
- 1x Car Charging Cable
- 1x Jumper Cable

PRODUCT OVERVIEW

The UDPOWER C400 is a compact and lightweight portable power station featuring a 256Wh LiFePO4 battery, 400W AC output (800W surge), and multiple charging and output options. It is designed for durability and safety, incorporating advanced battery

management and industrial-grade engineering.

UDPOWER C400 POWER STATION WITH 40W SOLAR PANEL

256Wh | 400W(Surge 800W) | 9 Outlets



Image: The UDPOWER C400 Portable Power Station connected to a 40W solar panel in a scenic outdoor environment, highlighting its portability and solar charging capability.

Key Features:

- **256Wh LiFePO4 Battery:** Offers over 4,000 charge cycles to 80% capacity, providing a lifespan of more than 15 years.
- **400W AC Output (800W Surge):** Powers up to 99% of common devices with pure sine wave output, safe for sensitive electronics.
- **7 Output Ports:** Includes 2x AC outlets, 65W USB-C PD, 18W USB-A, and a 12V car port for diverse connectivity.
- **40W Solar Panel:** High-efficiency monocrystalline cells (22%) with IP65 waterproof rating, capable of fully charging the C400 in 6-8 hours.
- **Emergency Jump Starter:** Provides 400A peak current for instant car battery revival without polarity risks.
- **Built-in Emergency Flashlight:** Features 4 lighting modes (Weak, Mid-Strong, Strong, SOS) for various situations.
- **Compact & Portable:** Weighs only 6.3 lbs with dimensions of 8.27"L x 5.12"W x 7.09"H, making it easy to carry.
- **Advanced Safety:** Self-developed Battery Management System (BMS) with 64-point safety monitoring, overheat/short-circuit protection, and industrial-grade engineering design.

4000+ Cycle Lifespan LFP Batteries, More than 15 years No-Worried Using

- High current flow, high power, fast charging
- Stable Chemical Property
Say No to fire or explosion even needle punching/impact.

*15 Years+ means using products 1 cycles (fully charged and used) per day.
it would last to 15 years+ due to 4000+ cycles still has 70% battery health.



Image: An internal view of the UDPOWER C400 highlighting its 4000+ cycle lifespan LiFePO4 batteries, emphasizing long-term reliability and stable chemical properties.

SETUP

1. **Unpack the Unit:** Carefully remove all components from the packaging.
2. **Initial Charge:** Before first use, fully charge the UDPOWER C400 using the provided AC adapter until the display shows 100%.
3. **Solar Panel Setup (if applicable):** Unfold the 40W solar panel and position it in direct sunlight. Connect the solar panel to the 'SOLAR/DC IN' port on the power station.

CHARGING THE UDPOWER C400

The C400 offers multiple charging methods to ensure you always have power when you need it.

1. AC Wall Charging

Use the provided UDPOWER Original DC Adapter to charge the unit from a standard wall outlet. Combining the DC adapter with a USB-C PD charger allows for 165W dual charging, reaching 80% in approximately 1.5 hours.

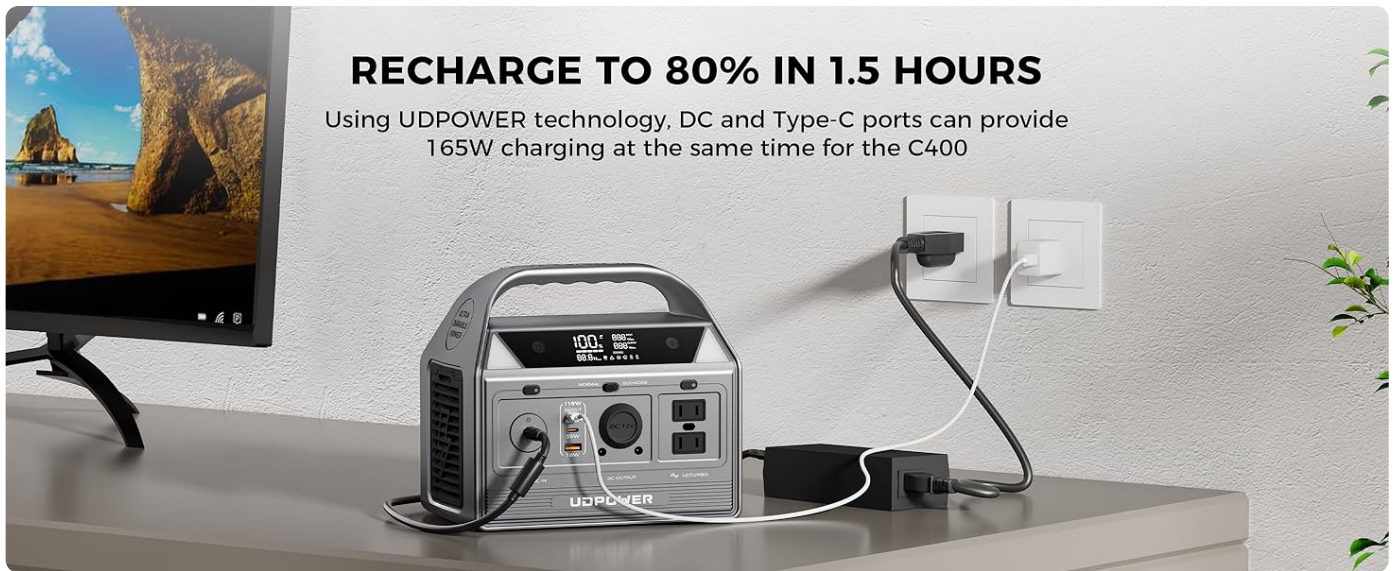


Image: The UDPOWER C400 being recharged simultaneously using its AC adapter and a USB-C cable, demonstrating its fast dual-charging capability.

2. Car Charging

Charge your power station on the go using the included car charging cable. Plug it into your vehicle's 12V car socket. The unit can be fully charged in about 2.3 hours via this method.



KEEP CHARGING EVEN AFTER YOU LEAVE HOME

Fully charged in about 2.3 hours via the car socket

 **12V/10A** (120W Max)

Image: The UDPOWER C400 Portable Power Station charging inside a car using the 12V car socket, illustrating convenient on-the-go recharging.

3. Solar Charging

Utilize the included 40W solar panel for eco-friendly charging. The C400 supports up to 150W solar input, allowing for faster charging with additional compatible solar panels. The 40W panel can fully charge the C400 in 6-8 hours under optimal sunlight.



SOLAR CHARGING FOR SUSTAINABLE POWER

Supports up to 150W solar charging, providing continuous off-grid power for clean energy use.

Image: The UDPOWER C400 Portable Power Station connected to a solar panel in an open outdoor area, demonstrating its solar charging capability for sustainable power.

4. USB-C Charging

The 65W USB-C PD port can also be used as an input for charging the power station, either independently or in conjunction with the DC adapter for faster charging.

OPERATING THE UDPOWER C400

1. Powering On/Off

Press and hold the main power button for 3 seconds to turn the unit on or off. The digital display will illuminate, showing battery percentage, input/output wattage, and remaining runtime.

2. Using Output Ports

The C400 features 7 output ports to power a wide range of devices:

- **2x AC Outlets:** For standard household appliances (up to 400W continuous, 800W surge). Press the AC button to activate.
- **1x 65W USB-C PD:** For fast charging compatible laptops, tablets, and smartphones.
- **1x 35W USB-C:** For charging various USB-C devices.
- **1x 18W USB-A:** For standard USB devices.
- **1x 12V Car Port:** For car appliances like mini-fridges or air pumps. Press the DC button to activate.
- **2x DC5521 Ports:** For specific DC-powered devices.



Image: A detailed view of the UDPOWER C400's front panel, highlighting its diverse range of output ports including AC, USB-C, USB-A, and DC ports.

3. Eco Mode / Normal Mode

Toggle between 'NORMAL' and 'ECO MODE' using the switch on the front panel. Eco Mode conserves battery by automatically shutting off output when devices draw very low power, ideal for extending runtime with small loads.

4. Built-in Emergency Flashlight

Press the light button to cycle through 4 lighting modes: Weak Light (50% brightness), Mid-Strong Light (80% brightness), Strong Light (100% brightness), and SOS Mode. Hold the button to turn off the light.



Image: The UDPOWER C400 Portable Power Station with its built-in emergency flashlight activated, providing illumination in a dark setting.

JUMP STARTER FUNCTION

The UDPOWER C400 includes a unique built-in jump starter for 12V car batteries, offering a 3-second rescue with 400A peak current and reverse polarity protection.

1. **Step 1:** Plug the included jumper cable into the EC5 port on the C400 (located on the back).
2. **Step 2:** Connect the Red clamp to the vehicle's positive (+) terminal and the Black clamp to the vehicle's negative (-) terminal.
3. **Step 3:** Power on the C400.
4. **Step 4:** Start your vehicle.
5. **Step 5:** Remove the jumper cable and put away the C400.



Image: A close-up of the UDPOWER C400's rear panel, highlighting the dedicated EC5 port for the jump starter function.

MAINTENANCE

- Store the unit in a cool, dry place away from direct sunlight.
- Recharge the unit every 3-6 months to maintain battery health, even if not in use.
- Clean the exterior with a dry, soft cloth. Avoid using harsh chemicals.
- Ensure the ventilation ports are clear of dust and debris.

TROUBLESHOOTING

- **Unit not turning on:** Ensure the battery is charged. If not, recharge using an AC adapter.
- **No output from ports:** Check if the specific output (AC/DC/USB) is activated. Ensure the device connected is within the power station's wattage limits.
- **Slow charging:** Verify that the charging source (AC adapter, car charger, solar panel) is functioning correctly and providing sufficient power. For solar, ensure direct sunlight.
- **Overload protection activated:** If the unit shuts down, disconnect the high-power device and restart the power station. Use devices within the specified wattage.

SPECIFICATIONS

Feature	Detail
Brand	UDPOWER
Model Name	AC0400
Battery Type	LiFePO4
Battery Capacity	256Wh
AC Output	400W (800W Surge), 110V

USB-C PD Output	65W
USB-A Output	18W
DC Output	12V Car Port, 2x DC5521
Solar Input	Up to 150W (40W panel included)
Jump Starter Peak Current	400A
Dimensions	8.27"L x 5.12"W x 7.09"H
Item Weight	6.88 lbs
Material	ABS, Polycarbonate

WARRANTY & SUPPORT

UDPOWER offers a **5-year comprehensive warranty** on the entire product line. For technical support, warranty claims, or any inquiries, please refer to the contact information provided in your product packaging or visit the official UDPOWER website.

PRODUCT VIDEOS

UDPOWER C400 Power Station: Everyday Portable Energy Solution

Video: This video showcases the UDPOWER C400 Power Station as an everyday portable energy solution, demonstrating its compact design and various uses for daily power needs.

Unboxing UDPOWER Bundle C400 Portable Power Station+SP40W

Video: An unboxing video of the UDPOWER C400 Portable Power Station bundle, including the 40W solar panel, detailing what comes in the package.

C400 Power Station: Your Best Travel Buddy for Short Trips

Video: This video highlights the UDPOWER C400 Power Station as an ideal travel companion for short trips, emphasizing its portability and utility for on-the-go power needs.

C400: Simplify Your Day, Elevate Your Life

Video: A promotional video for the UDPOWER C400, illustrating how it can simplify daily routines and enhance lifestyle through convenient portable power.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for

conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question