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UDPOWER AC0600

UDPOWER C600 Solar Generator and 120W Solar Panel User Manual

Model: AC0600

1. INTRODUCTION

The UDPOWER C600 Solar Generator is a portable power station designed to provide reliable electricity for various applications, including camping, travel, RV use, and emergency power backup. This bundle includes the C600 Portable Power Station and two 120W solar panels, offering a comprehensive solution for off-grid power needs. The C600 features a 600W AC output (1200W surge capability) and a durable 595Wh LiFePO4 battery, ensuring stable and long-lasting performance.



Image 1: UDPOWER C600 Portable Power Station with two 120W Solar Panels.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the UDPOWER C600 Solar Generator. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Certifications:** The C600 is UL2743, FCC, and ROHS certified, ensuring compliance with safety and environmental standards.
- **6-Layer Safety System:** Equipped with comprehensive protection against over-voltage, short-circuit, and temperature fluctuations. The LiFePO4 battery is designed to be explosion-proof.
- **LiFePO4 Battery:** The integrated LiFePO4 battery offers enhanced safety, stability, and a longer lifespan compared to traditional lithium-ion batteries.
- **Ventilation:** Ensure adequate ventilation around the power station during operation and charging to prevent overheating.
- **Water Exposure:** Do not expose the unit or solar panels to rain or moisture. Operate in dry conditions only.
- **Temperature:** Operate and store the unit within the recommended temperature ranges specified in the specifications section.

PRECISION-BUILT WITH UDPOWER INTEGRATION TECH

PC+ABS 94V-0 Level Fireproof Shell with Anti-Static & Patented Design



Peak Efficiency, Real-Time Control, **360-Day Standby**



Safety, Stable & EV-Grade Balancing Tech



Certified By **SGS** With Exceptional Quality



Image 2: Precision-built design of the UDPOWER C600, highlighting internal components and safety certifications.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all items listed below are present and undamaged. If any items are missing or damaged, contact UDPOWER customer support.

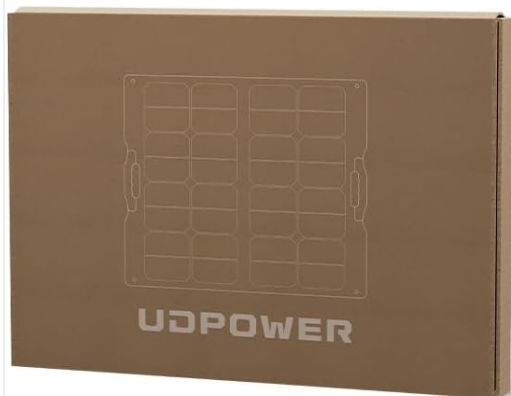
- UDPOWER Portable Power Station C600
- 2x UDPOWER 120W Solar Panel
- 120W AC Adapter
- 12V Car Charging Cable
- User Manual

Note: The C600 unit and 120W solar panels are shipped separately.

Package List



C600 Power Station



120W Solar Panel x2

*C600 and 2*120W solar panel are shipped separately

Image 3: Visual representation of the package contents, including the C600 Power Station and two 120W Solar Panels.

4. PRODUCT OVERVIEW

4.1 UDPOWER C600 Portable Power Station

The C600 is a compact and lightweight power station designed for portability and versatility. It features multiple output ports to power a wide range of devices.



Image 4: The UDPOWER C600 unit, highlighting its 1200W surge capability and 595Wh capacity.

Output Ports:

- **2x AC Outlets:** 110V, 600W continuous, 1200W surge.
- **2x USB-C Ports:** One 65W Power Delivery (PD), one 35W PD.
- **2x USB-A Ports:** 12W each.
- **2x DC5521 Ports:** 12V/10A (120W max).
- **1x Car Socket:** 12V/10A (120W max).

POWER UP TO 9 DEVICES

Compatible with 99% of appliances

2 AC Outlets

2 USB-C Ports

2 USB-A Ports

2 DC5521 Ports

1 Car Socket



Image 5: The C600 power station demonstrating its ability to power up to 9 devices simultaneously through its various ports.

4.2 UDPOWER 120W Solar Panels

The included 120W solar panels are foldable and designed for efficient solar energy conversion, providing a sustainable charging solution for your C600 power station.

LIGHTWEIGHT & PORTABLE



Image 6: The C600 and a 120W solar panel, emphasizing their lightweight and portable characteristics.

5. SETUP

5.1 Initial Charging

Before first use, it is recommended to fully charge the UDPOWER C600. This can be done via the included AC adapter, car charging cable, or solar panels.

5.2 Charging via AC Adapter

1. Connect the 120W AC adapter to the DC input port on the C600.
2. Plug the AC adapter into a standard wall outlet (110V AC).
3. The display on the C600 will indicate charging status.

5.3 Charging via Car Charging Cable

1. Connect the 12V car charging cable to the DC input port on the C600.
2. Insert the other end of the cable into your vehicle's 12V cigarette lighter socket.

3. The display on the C600 will indicate charging status.

5.4 Charging via Solar Panels

1. Unfold the 120W solar panels and position them in direct sunlight for maximum efficiency.
2. Connect the solar panels to the DC input port on the C600. The C600 supports up to 240W solar input (18V-28V).
3. The display on the C600 will show the solar input wattage and charging status.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

To power on the C600, press and hold the main power button until the display illuminates. To power off, press and hold the main power button again until the display turns off.

6.2 Using AC Outlets

1. Ensure the C600 is powered on.
2. Press the AC output button to activate the AC outlets.
3. Plug your AC devices into the outlets. The C600 provides a pure sine wave output, safe for sensitive electronics.
4. The display will show the current AC output wattage.

6.3 Using USB and DC Ports

1. Ensure the C600 is powered on.
2. Connect your USB or DC devices to the appropriate ports.
3. The USB-C ports support Power Delivery for fast charging compatible devices.
4. The display will show the current DC output wattage.

6.4 Special Features

LED Lighting

The C600 features a built-in LED light with multiple modes:

- **Weak Light (50% brightness)**
- **Mid-Strong Light (80% brightness)**
- **Strong Light (100% brightness)**
- **SOS Mode:** For emergency signaling.

To activate or change modes, press the LED light button. The LED light is useful for camping, emergencies, or as a general work light.

WHISPER-QUIET POWER WITH SMART LED LIGHTING

Experience Silent Energy and
Adjustable Light for Every Need



High-Speed Silent Fan
for Noise-Free Power



3-Level Adjustable
Brightness for Any Situation

Image 7: The C600 providing whisper-quiet power and adjustable LED lighting in a vehicle setting.

Ultra-Low Noise Operation

The C600 is designed with an advanced silent fan and optimized internal structure, operating below 30dB. This ensures quiet operation, making it suitable for indoor use or quiet environments.

Smart Heat Dissipation

An efficient cooling system prevents overheating, maintaining stable performance even during high-power usage.

7. MAINTENANCE

7.1 Battery Lifespan

The C600 utilizes a LiFePO4 battery, which offers over 4000 charge cycles to 80% capacity retention. This translates to a lifespan of 15 years or more with typical usage (one full charge/discharge cycle per day).

15 YEARS RELIABLE LFP BATTERIES

4000+ Cycles lifespan No-worried for **15 Years+**

4000+



*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 8: The C600's LiFePO4 battery technology, emphasizing its extended lifespan of over 4000 cycles.

7.2 Long-Term Storage

For optimal battery health during long-term storage, fully charge the C600 every 3-6 months. The unit is designed for 360-day standby with minimal power loss, ensuring it remains ready for use when needed.

0 POWER LOSS, 100% READY

Stays 100% Ready for 1 Year+ Without Use



AFTER 360 DAYS

Image 9: The C600 maintaining 100% readiness after 360 days without use, showcasing its low self-discharge rate.

7.3 Cleaning

Use a dry, soft cloth to clean the exterior of the power station and solar panels. Do not use harsh chemicals or abrasive materials. Keep vents clear of dust and debris.

8. TROUBLESHOOTING

If you encounter issues with your UDPOWER C600, refer to the following common troubleshooting steps:

- **Unit Not Turning On:** Ensure the battery is charged. If completely depleted, connect to an AC power source for a few minutes before attempting to power on.
- **No Output from Ports:** Verify that the specific output (AC, USB, DC) is activated by pressing its respective button. Check if the device connected is within the power station's wattage limits.
- **Charging Issues:** Ensure all charging cables are securely connected. For solar charging, confirm panels are in direct sunlight and clean. Check input voltage/wattage on the display.
- **Overload Protection:** If an overload occurs, the unit may shut down. Disconnect the overloaded device, wait a few minutes, and restart the power station.
- **Unusual Noise/Smell:** Immediately power off the unit and disconnect all devices and charging

sources. Contact customer support.

For further assistance, please contact UDPOWER customer support.

9. SPECIFICATIONS

Feature	Specification
Model Name	AC0600
Battery Type	LiFePO4
Battery Capacity	595Wh
AC Output	600W (Continuous), 1200W (Surge)
AC Voltage	110 Volts
Solar Input (Max)	240W (18V-28V)
USB-C Output	65W PD, 35W PD
USB-A Output	12W (each)
DC5521 Output	12V/10A (120W Max)
Car Socket Output	12V/10A (120W Max)
Product Dimensions	11.02"L x 5.91"W x 9.45"H
Item Weight	12.79 Pounds
Operating Noise Level	Below 30dB
Material	ABS, Polycarbonate

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The UDPOWER C600 Solar Generator comes with a **3-Year Product Warranty** and a **2-Year After-Sales Extended Warranty**. This warranty covers defects in materials and workmanship under normal use.

10.2 Customer Support

For technical support, warranty claims, or any questions regarding your UDPOWER C600, please contact UDPOWER customer service through the official website or your purchase platform. Please have your model number (AC0600) and proof of purchase ready when contacting support.