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› POWER X CHANGER UX-1K 1000VA/900W Step-Up Voltage and Frequency Converter User Manual

POWER X CHANGER UX-1K

POWER X CHANGER UX-1K 1000VA/900W Step-Up Voltage and Frequency Converter User Manual

Model: UX-1K | Brand: POWER X CHANGER

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your POWER X CHANGER UX-1K Step-Up Voltage and Frequency Converter. This device is a double conversion power converter designed to produce a stable pure sine wave voltage and frequency output. It protects your equipment from various power issues, including sags, surges, brownouts, and line noise. The common neutral topology ensures an internal connection from AC input neutral to AC output neutral, eliminating the need for an isolation transformer and reducing interference for communication or video systems.



Figure 1: Conceptual diagram of the voltage and frequency conversion process.

2. SAFETY INFORMATION

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

- **Indoor Use Only:** Install the converter in a temperature and humidity-controlled indoor area, free from conductive contaminants.
- **Ventilation:** Ensure adequate ventilation around the unit to prevent overheating. Do not block ventilation openings.
- **Grounding:** Always connect the converter to a properly grounded electrical outlet.
- **Overload Protection:** Do not exceed the maximum output current of 4.2 Amps (1000VA/900W model). Overloading can damage the unit and connected devices.
- **Liquid Exposure:** Keep the converter away from liquids. Do not operate with wet hands.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to open or repair the unit yourself.

3. PRODUCT OVERVIEW

The POWER X CHANGER UX-1K is a compact and robust step-up voltage and frequency converter. It features an intuitive LCD display and control buttons for easy configuration.

3.1 Front Panel



Figure 2: Front view of the UX-1K converter.

The front panel includes an LCD display that shows load level, output voltage, frequency, and temperature. Below the display are 'SELECT' buttons (up and down arrows) and a 'Main Control Button' (power button) for navigating menus and making selections.



Figure 3: Close-up of the LCD display and control buttons.

3.2 Rear Panel

SPECIFICATIONS

STEP-UP Voltage and Frequency Converter (UX / Tower Series)

Models

UX-1K

Output

Capacity 1000VA/900W

Output Voltage 200V/220V/230V/240V Selectable

Voltage Waveform Sine wave

Crest Factor 3:1

Output Frequency (sync to mains) 50/60Hz (selectable from LCD function button)

Output Frequency (not sync to mains) 50±0.01Hz or 60±0.01Hz

Regulation ±2% of selected output voltage (adjustable by using the setting software)

Output Current 200 V ~ 240 V 4.2 Amp

Output Peak Current (<250mS) 13 Amp

Overload protection 100%~129% for 60 seconds, then audible alarm; audible alarm sounds for 60 seconds before shutting down >130%, alarm will go off for 2 seconds and then shutting down

Harmonic Distortion <3% (at full resistive load)

Efficiency Up to 90%

Input

Voltage Range 100V~285Vac

Frequency Range 45~70Hz

Input current 10 Amp

Wall-Outlet Type Required



NEMA 5-15 R
(15 Amps)

Power Factor	≥ 0.98
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Surge Current	$< 100\text{A}$, 3mS
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Communications & Management

Control panel	LCD
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Audible alarm	Overload alarm: Short-circuit alarm, Thermal alarm
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Environmental and Safety

Operating Temp.	Up to 1500 meters: 0°C to 40°C (32°F to 104°F)
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Transit/storage Temp.	-15°C to 55°C (5°F to 131°F)
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Relative Humidity	5 - 95% non condensing
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Operating Altitude	0 - 3000 meters
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Audible noise	≤ 45 dBA (at 1 meter from surface of unit)
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Safety Markings	BSMI
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Quality control system	ISO9001
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Physical

Models	UX-1K
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Dimensions D x H x W	38×20×18cm 15×8×7in
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Weight	6.5 kg / 14.0 lbs
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Shipping Dimensions D x H x W; Weight	4.0×33.0×30.0cm; 8.5 kg 1.0×13.0×12.0in; 19.0 lbs
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Figure 4: Rear view of the UX-1K converter.

The rear panel features the 120V 60Hz input power cord, a circuit breaker for protection, and universal 220V 50Hz output outlets that accept various plug types.

4. SETUP

Follow these steps to set up your POWER X CHANGER UX-1K converter:

- Placement:** Place the converter on a stable, flat surface in a well-ventilated area. Ensure there is sufficient space around the unit for airflow.
- Input Connection:** Connect the integrated 120V 60Hz input power cord from the converter to a standard 120Vac, 60Hz wall outlet.
- Output Connection:** Plug your 220V 50Hz device(s) into the universal output outlets on the rear panel of the converter. Ensure the total power consumption of your connected devices does not exceed 900W (1000VA).
- Power On:** Press the Main Control Button on the front panel to power on the converter. The LCD display will illuminate.

5. OPERATING INSTRUCTIONS

The UX-1K converter allows you to select the desired output voltage and frequency to match your equipment's requirements.

5.1 Changing Output Voltage and Frequency

To adjust the output voltage and frequency, use the 'SELECT' (up/down) buttons and the 'Main Control Button' on the front panel.

1. **Enter Configuration Mode:** Press and hold both the 'SELECT' up and down buttons simultaneously until the display changes to the frequency selection screen.
2. **Adjust Frequency:** Use the 'SELECT' up or down buttons to toggle between 50Hz and 60Hz. Holding the button longer will adjust the value more rapidly.
3. **Confirm Frequency:** Once the desired frequency is displayed, press both 'SELECT' buttons simultaneously again to move to the voltage selection screen.
4. **Adjust Voltage:** Use the 'SELECT' up or down buttons to cycle through available output voltages (e.g., 200V, 220V, 230V, 240V). Similar to frequency, holding the button longer will adjust the value more rapidly.
5. **Confirm Voltage:** Press both 'SELECT' buttons simultaneously to confirm your voltage selection and exit the configuration mode. The converter will now operate at the selected output settings.

For a visual guide on how to change the voltage and frequency settings, please refer to the official video below:

Your browser does not support the video tag.

Video 1: Tutorial on how to change the output voltage and frequency on the UX Series PowerXchanger.

5.2 Practical Application Example

The POWER X CHANGER UX-1K can power various devices requiring specific voltage and frequency. For instance, it can be used to operate European-made coffee machines that require 230V/50Hz power from a 120V/60Hz input source.

Your browser does not support the video tag.

Video 2: Demonstration of using the voltage converter to run a European-made coffee machine.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your converter.

- **Cleaning:** Keep the unit clean and free of dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or aerosols.
- **Ventilation:** Periodically check that the ventilation openings are not obstructed.
- **Storage:** If storing the unit for an extended period, ensure it is powered off, disconnected from the power source, and stored in a cool, dry place.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your converter.

- **No Power:** Check the input power connection and ensure the wall outlet is functioning. Verify the circuit breaker on the rear panel is not tripped.
- **Overload Alarm:** If an overload alarm sounds, immediately disconnect some of the connected devices. The unit will automatically restart after an overload shutdown. Ensure the total load does not exceed the converter's capacity.
- **Thermal Alarm:** If a thermal alarm sounds, the unit may be overheating. Disconnect devices, power off the unit, and allow it to cool down in a well-ventilated area. Check for blocked ventilation.
- **Incorrect Output:** If the output voltage or frequency is incorrect, refer to Section 5.1 to reconfigure the settings.

8. SPECIFICATIONS

Detailed technical specifications for the POWER X CHANGER UX-1K 1000VA/900W converter:

Feature	Specification
Model	UX-1K
Capacity	1000VA/900W
Input Voltage Range	100Vac - 285Vac
Input Frequency	50Hz/60Hz Automatic
Output Voltage	200V-220V-230V-240V (Selectable)
Output Frequency	50Hz/60Hz (Selectable)
Output Waveform	Pure Sine Wave
Maximum Output Current	4.2 Amps
Efficiency	Up to 90%
Product Dimensions (D x W x H)	15"D x 8"W x 7"H
Item Weight	14 Pounds
Operating Temperature	0°C to 40°C (32°F to 104°F)
Safety Markings	CE, BSMI, ISO9001

For a visual representation of the unit's dimensions, please see the image below:



Figure 5: Dimensions of the UX-1K converter.

A comprehensive specifications table is also available:



Figure 6: Detailed specifications table.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official POWER X CHANGER website. Contact information for customer service can typically be found on the product packaging or the manufacturer's website.

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