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Walfront SW-S15

SW-S15 500W Step Up/Buck Channel Voltage Converter Transformer User Manual

Model: SW-S15 | Brand: Walfront

1. INTRODUCTION

The Walfront SW-S15 is a versatile 500W step up/buck channel voltage converter designed for international travel and use with various electrical appliances. It allows for conversion between 110/120V and 220/240V, making it suitable for adapting devices to different regional power standards. This manual provides essential information for the safe and effective operation of your SW-S15 voltage converter.



Figure 1: Walfront SW-S15 500W Voltage Converter. This image shows the compact white converter unit with its attached power cord, illustrating its overall design and size.

2. KEY FEATURES

- **Dual Channel Voltage Conversion:** Capable of converting voltage from 110/120V to 220/240V, and vice-versa, from 220/240V to 110/120V.
- **High Performance:** Constructed with imported materials, a high-performance transformer, and specialized circuitry for extended service life.
- **Compact and Portable:** Features a small size and light weight, making it convenient for travel and easy to pack.
- **Versatile Application:** Suitable for a wide range of small electrical appliances, including hair dryers, steam irons, electric kettles, mixers, and small fans.
- **Input/Output Indicators:** Equipped with indicator lights to show the active input and output voltage.



Figure 2: Dual Channel Voltage Conversion. This image highlights the converter's ability to transform voltage from 110/120V to 220/240V and from 220/240V to 110/120V, emphasizing its adaptability for global use.

3. SAFETY PRECAUTIONS

To ensure safe operation and prevent damage to the converter or connected appliances, please observe the following safety guidelines:

- **Read Instructions:** Always read this manual thoroughly before using the converter.
- **Correct Voltage Selection: CRITICAL:** Always verify the correct input and output voltage setting using the selector switch on the bottom of the unit before plugging in any appliance or connecting to a power source. Incorrect selection can damage the converter and your appliance.
- **Power Rating:** Do not exceed the maximum power output of 500W. Ensure the total wattage of connected appliances is below this limit. For continuous use, it is recommended to use appliances with a power consumption of 380W or less.
- **Ventilation:** Place the converter in a well-ventilated area. Do not cover the unit or place it in an enclosed space during operation.

- **Moisture:** Do not expose the converter to water, rain, or excessive humidity.
- **Children and Pets:** Keep the converter out of reach of children and pets.
- **Damage:** Do not operate the converter if the cord, plug, or unit itself appears damaged. Contact customer support for assistance.
- **Indoor Use Only:** This converter is designed for indoor use only.
- **Unplug When Not In Use:** Disconnect the converter from the power outlet when not in use.

4. SETUP AND VOLTAGE SELECTION

Proper setup of the SW-S15 converter is crucial for its safe and effective operation. The unit features a selector switch on its bottom to choose between step-up (110V to 220V) and step-down (220V to 110V) conversion modes.

4.1 Identifying Input and Output

The front of the converter clearly indicates the input and output voltage settings. There are two indicator lights:

- **Input: AC110V 50/60Hz, Output: AC220V 50/60Hz** (Red indicator light)
- **Input: AC220V 50/60Hz, Output: AC110V 50/60Hz** (Green indicator light)



Figure 3: Front Panel Overview. This image displays the front of the SW-S15 converter, highlighting the labels for input and output voltages (AC110V/AC220V) and their corresponding indicator lights.

4.2 Setting the Voltage Selector Switch

The voltage selector switch is located on the bottom of the unit. It is imperative to set this switch correctly based on the voltage of the power outlet you are connecting to and the voltage required by your appliance.

WARNING: Failure to set the switch correctly can result in severe damage to the converter and the connected appliance. Always check the switch position before plugging in.



Figure 4: Bottom View with Selector Switch. This image shows the underside of the converter, clearly indicating the position of the voltage selector switch.

Dual channel voltage converter from 110/120V to 220/240V, also can change from 220/240V to 110/120V



Figure 5: Selector Switch Detail. A closer view of the voltage selector switch and the corresponding indicator light, emphasizing the importance of correct setting.

Refer to the following guidelines for setting the switch:

- **To Convert 110V to 220V (Step-Up):**

- If you are in a region with 110V power (e.g., Canada, Brazil, Japan, United States, Taiwan) and need to power a 220V appliance:
- Set the switch to the position labeled for **Input: 110V, Output: 220V**.
- The red indicator light on the front will illuminate when powered.

- **To Convert 220V to 110V (Step-Down):**

- If you are in a region with 220V power (e.g., China, most of Europe) and need to power a 110V appliance:
- Set the switch to the position labeled for **Input: 220V, Output: 110V**.
- The green indicator light on the front will illuminate when powered.

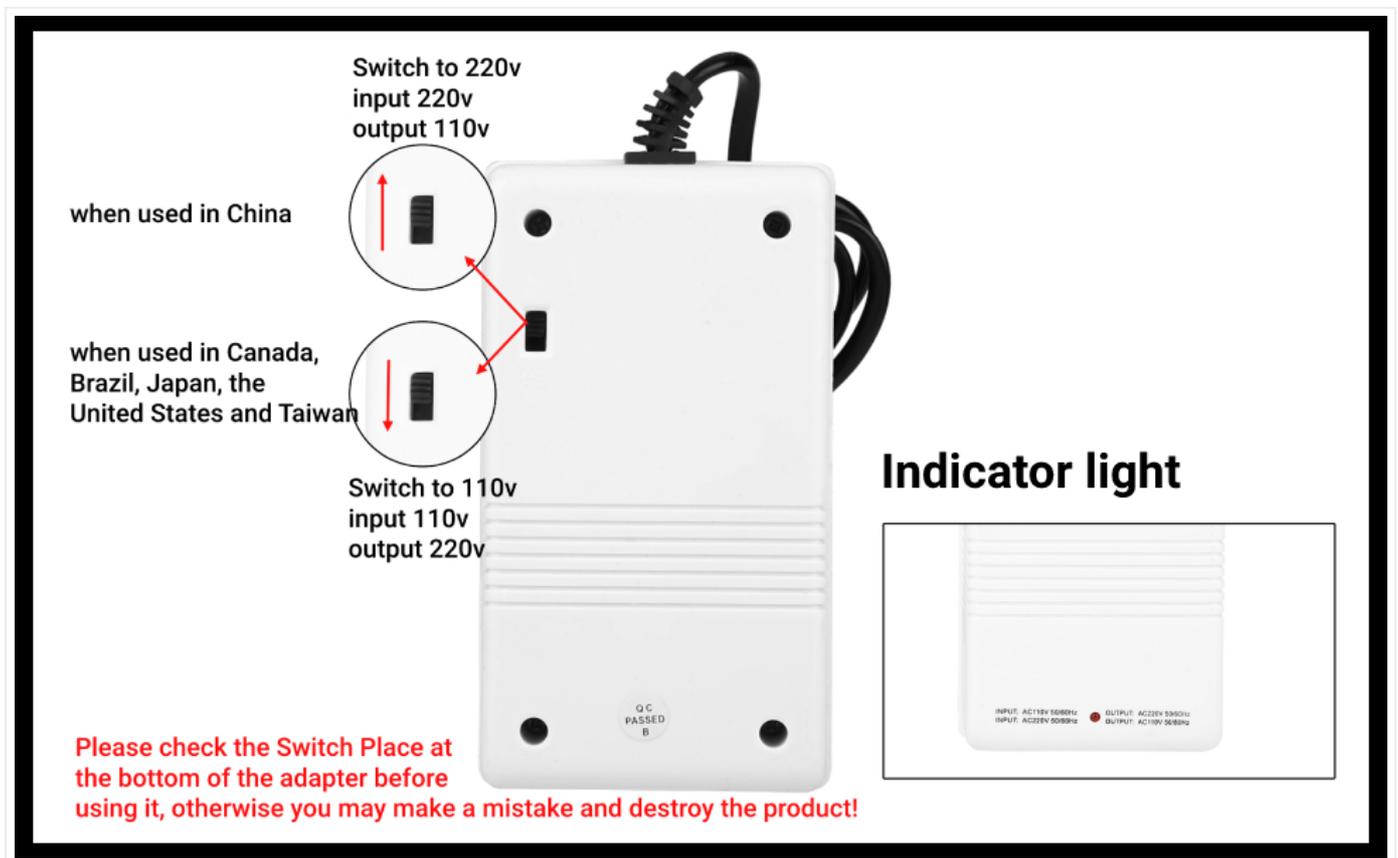


Figure 6: Voltage Switch Settings. This diagram illustrates the two switch positions on the bottom of the converter, indicating which setting to use for converting 110V to 220V (for use in 110V regions with 220V appliances) and 220V to 110V (for use in 220V regions with 110V appliances), with examples of countries for each setting.

5. OPERATING INSTRUCTIONS

1. **Determine Appliance Voltage:** Identify the voltage requirement of the appliance you intend to use with the converter (e.g., 110V or 220V). This information is usually found on the appliance's label or in its manual.
2. **Determine Wall Outlet Voltage:** Identify the voltage of the wall outlet you will be plugging the converter into (e.g., 110V or 220V).
3. **Set Converter Switch:** Based on the above, set the voltage selector switch on the bottom of the SW-S15 converter to the correct position (refer to Section 4.2).
4. **Connect Appliance:** Plug your appliance into the universal AC output socket on the front of the SW-S15 converter.
5. **Connect to Power:** Plug the SW-S15 converter's power cord into the wall outlet.
6. **Verify Indicator:** The corresponding indicator light on the front of the converter (red for 110V input/220V output, green for 220V input/110V output) should illuminate, indicating proper operation.
7. **Power On Appliance:** Turn on your appliance.
8. **Disconnect:** When finished, turn off your appliance, then unplug the converter from the wall outlet, and finally unplug the appliance from the converter.

The SW-S15 is suitable for a variety of small household appliances. Examples include:



Figure 7: Compatible Appliances. This image displays various small appliances such as rice cookers, hairdryers, kettles, and blenders, illustrating the range of devices that can be used with the SW-S15 converter.

6. MAINTENANCE AND CARE

- **Cleaning:** Ensure the converter is unplugged from all power sources before cleaning. Wipe the exterior with a soft, dry cloth. Do not use liquid cleaners or abrasive materials.
- **Storage:** Store the converter in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Inspection:** Periodically inspect the power cord and the converter unit for any signs of damage. If damage is found, discontinue use and contact customer support.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Converter not powering on / Indicator light off	No power from wall outlet. Loose connection. Converter or cord damage.	Check if the wall outlet is functional by plugging in another device. Ensure the converter's plug is fully inserted into the wall outlet. Inspect the converter and cord for visible damage. Do not use if damaged.

Problem	Possible Cause	Solution
Appliance not working	<p>Incorrect voltage switch setting.</p> <p>Appliance not properly plugged into converter.</p> <p>Appliance power rating exceeds converter's capacity.</p> <p>Appliance malfunction.</p>	<p>Verify the voltage selector switch on the bottom of the converter is set correctly for your input and output needs (refer to Section 4.2).</p> <p>Ensure the appliance's plug is fully inserted into the converter's output socket.</p> <p>Check the appliance's wattage. Ensure it is within the 500W limit (preferably 380W for continuous use).</p> <p>Test the appliance directly in a compatible outlet (if available) to rule out appliance issues.</p>
Converter feels hot	<p>Overload.</p> <p>Poor ventilation.</p>	<p>Unplug immediately. Reduce the load by using a lower wattage appliance or fewer appliances.</p> <p>Ensure the converter is placed in a well-ventilated area and not covered. Allow it to cool down before reuse.</p>

8. SPECIFICATIONS

Model Number	SW-S15
Brand	Walfront
Product Dimensions (L x W x H)	5.31 x 2.95 x 2.36 inches
Item Weight	3.08 pounds
Input Voltage	AC 110V/120V or AC 220V/240V (selectable)
Output Voltage	AC 220V/240V or AC 110V/120V (corresponding to input)
Maximum Power Output	500W (suitable for electrical appliances under 380W for continuous use)
Color	White
Plug Format	CN standard plug (for the converter's input)

9. WARRANTY INFORMATION

For specific warranty terms and conditions, please refer to the documentation included with your product packaging or visit the official Walfront website. Warranty coverage typically applies to manufacturing defects and may vary by region and retailer.

10. CUSTOMER SUPPORT

If you encounter any issues or have questions regarding your Walfront SW-S15 voltage converter that are not addressed in this manual, please contact Walfront customer support. Contact information can typically be found on the product packaging, the retailer's website, or the official Walfront brand website.

For more information, you may visit the [Walfront Store on Amazon](#).



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