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TFCFL TY1

TFCFL 3000W Voltage Power Converter Transformer User Manual

Model: TY1
Brand: TFCFL

1. PRODUCT OVERVIEW

The TFCFL 3000W Voltage Power Converter Transformer provides a safe and convenient solution for converting voltages between 110V and 220V AC. This heavy-duty unit is designed for both home and industrial applications, allowing you to step up voltage from 110V to 220V or step down from 220V to 110V. It features multiple universal AC outlets and a 5V DC USB port, all of which can be used simultaneously and continuously. Integrated fuse and circuit protection ensure the safety and longevity of both the converter and connected devices.



Figure 1: Front-angled view of the TFCFL 3000W Voltage Power Converter Transformer.

2. IMPORTANT SAFETY INFORMATION

Please read and understand all safety instructions before operating this device. Failure to follow these guidelines may result in electric shock, fire, or damage to the product or connected appliances.

- **Voltage Selection:** Always select the correct input voltage (110V or 220V) using the selector switch on the rear panel *before* plugging the unit into a power outlet. Incorrect voltage selection can cause severe damage.
- **Appliance Power Rating:** For safety and optimal performance, it is highly recommended that the maximum power rating of the voltage transformer be at least **2.5 times greater** than the power rating of the appliance you intend to connect. For example, if your appliance is rated at 100 watts, you should use a transformer with a maximum power of 250 watts or greater. This prevents overload and potential damage to both the transformer and the appliance.
- **Ventilation:** Ensure the converter is placed in a well-ventilated area. Do not block the ventilation openings.
- **Indoor Use Only:** This device is designed for indoor use only. Do not expose it to rain or moisture.
- **Grounding:** Ensure the unit is properly grounded.
- **Overload Protection:** The unit is equipped with fuse and circuit protection. If an overload occurs, the

protection system will activate. Disconnect the appliance and check the fuse.



Figure 2: Rear panel showing the input voltage selector and warning label.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x TFCFL 3000W Voltage Power Converter Transformer
- 1 x Power Cord
- 1 x Adapter (if applicable, based on region)
- 1 x User Manual (this document)



Figure 3: Contents included with the TFCFL 3000W Voltage Power Converter Transformer.

4. PRODUCT FEATURES

The TFCFL 3000W Voltage Power Converter Transformer offers the following key features:

- **3000 Watts Heavy Duty:** Capable of handling high-power appliances.
- **Step Up/Down Functionality:** Converts 110V to 220V and 220V to 110V.
- **Compact Size:** Dimensions of approximately 11.8"L x 8.6"W x 5.9"H (30cm x 22cm x 15cm) for easy transport.
- **Fuse/Circuit Protection:** Built-in safety mechanisms to protect the unit and connected devices.
- **Multiple Outputs:** Features four grounded AC outlets (two for 110V US standard, two for 220V universal) and one 5V standard USB jack.
- **Simultaneous Use:** All five outputs can be used simultaneously and continuously.

5. SETUP AND CONNECTION

1. **Choose Input Voltage:** Locate the input voltage selector switch on the rear panel of the converter. Set it to match the voltage of your wall outlet (either 110V or 220V). *Ensure this is done before plugging the unit into the wall.*

2. **Connect to Power:** Insert the power cord into the AC input socket on the rear of the converter, then plug the other end into a grounded wall outlet.
3. **Connect Appliances:**
 - For 110V appliances (when input is 220V): Plug your 110V appliance into one of the "OUTPUT 110V" sockets on the front panel.
 - For 220V appliances (when input is 110V): Plug your 220V appliance into one of the "OUTPUT 220V" sockets on the front panel.
 - For USB devices: Plug your USB charging cable into the 5V USB port.
4. **Power On:** Flip the power switch on the front panel to the "ON" position. The power indicator light should illuminate.

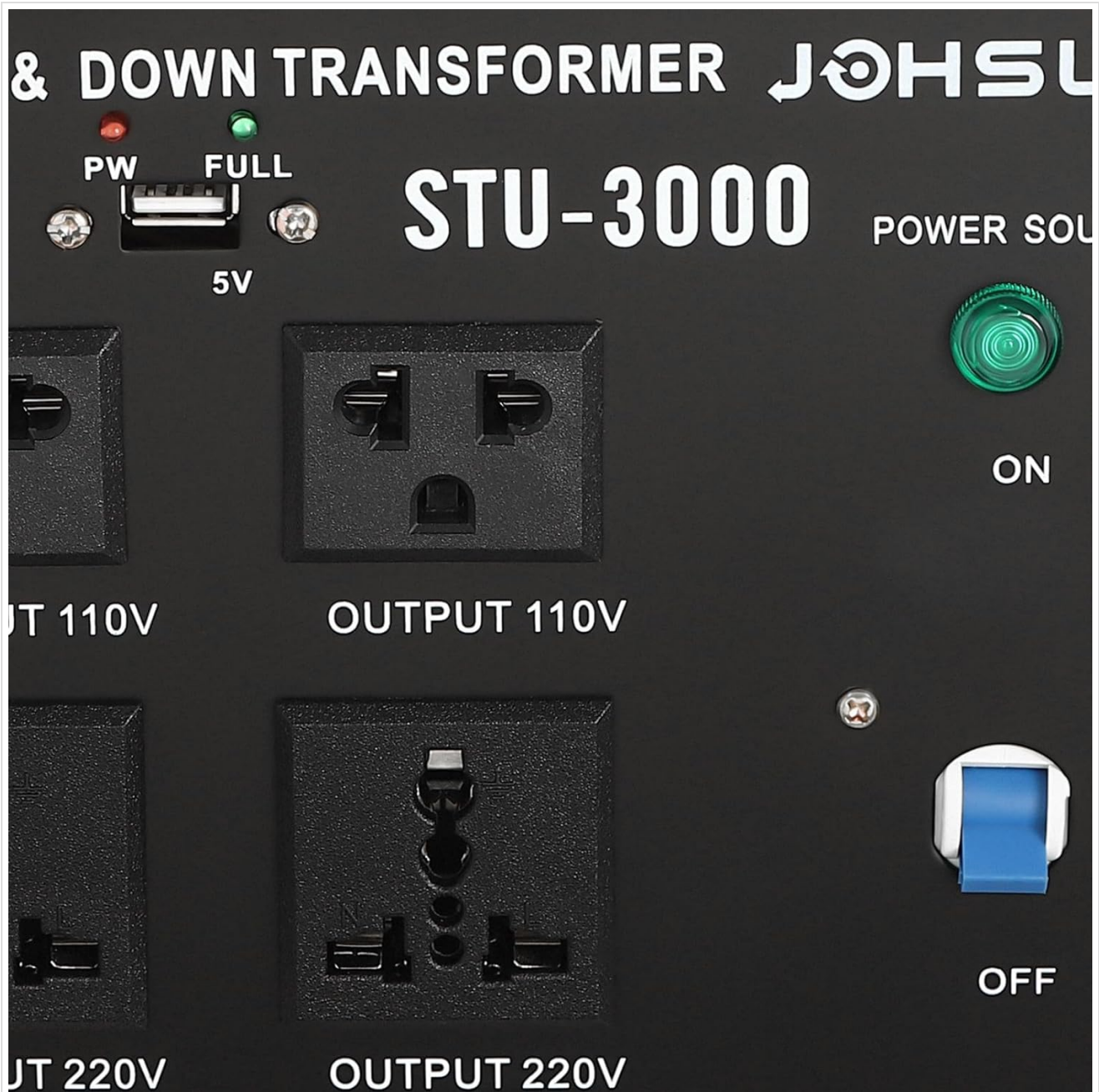


Figure 4: Front panel with output sockets and power switch.

6. OPERATING INSTRUCTIONS

Once properly set up, operating the TFCFL Voltage Power Converter is straightforward:

- **Simultaneous Use:** All output sockets (110V, 220V, and 5V USB) can be used at the same time, provided the total combined wattage of all connected appliances does not exceed the transformer's maximum rated power (3000W), keeping in mind the 2.5x safety margin.
- **Power Indicators:** The front panel includes indicators for power (PW) and full load (FULL). Monitor these indicators during operation.
- **Power Off:** To turn off the unit, flip the power switch to the "OFF" position. It is recommended to disconnect appliances before powering off the converter for extended periods.



Figure 5: The converter in an operational setting.

7. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your voltage converter:

- **Cleaning:** Disconnect the unit from power before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or aerosols.
- **Ventilation:** Regularly check that the ventilation openings are clear of dust and debris to prevent overheating.
- **Storage:** When not in use for extended periods, store the converter in a cool, dry place away from direct sunlight and moisture.
- **Fuse Replacement:** If the unit stops functioning due to an overload, the fuse may need replacement. Refer to the specifications for the correct fuse type and rating. Always replace with a fuse of the same type and rating.

8. TROUBLESHOOTING

If you encounter issues with your TFCFL Voltage Power Converter, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No power / Unit not turning on	Power cord not securely plugged in. Wall outlet has no power. Internal fuse blown due to overload.	Ensure power cord is firmly connected to both the unit and the wall outlet. Test the wall outlet with another device. Check and replace the fuse if necessary (refer to Maintenance section).
Appliance not working	Incorrect output voltage selected. Appliance not properly plugged into the converter. Appliance power rating exceeds converter capacity.	Verify the appliance is plugged into the correct 110V or 220V output socket. Ensure the appliance plug is fully inserted. Confirm the appliance's wattage is within the recommended limits (2.5x less than converter's max wattage).
Unit overheating	Poor ventilation. Overload.	Ensure adequate airflow around the unit; clear any obstructions from vents. Reduce the load by disconnecting some appliances.

9. TECHNICAL SPECIFICATIONS

Specification	Detail
Input Voltage	110V / 220V AC (Selectable)
Output Voltage	110V AC, 220V AC, 5V DC (USB)
Maximum Power	3000 Watts (3 KW)
Frequency	50/60 Hz
Dimensions (L x W x H)	Approx. 11.8" x 8.6" x 5.9" (30cm x 22cm x 15cm)
Weight	Approx. 17.1 pounds (8.5 kg)
Model Number	TY1
Included Components	3000W voltage transformer

10. WARRANTY AND CUSTOMER SUPPORT

Your TFCFL Voltage Power Converter Transformer is designed for reliable performance. While specific warranty details are not provided in this manual, TFCFL is committed to customer satisfaction.

If you have any questions regarding the product's quality, operation, or require assistance, please do not hesitate to contact our customer service team. We are happy to help resolve any issues you may encounter.

For support, please refer to the contact information provided at the point of purchase or visit the official TFCFL store page on Amazon: [TFCFL Store](#)