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› LVYUAN 3000 Watt Voltage Converter Transformer User Manual

LVYUAN LY-VT-3000VA

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Brand: LVYUAN

Model: LY-VT-3000VA

PRODUCT OVERVIEW

The LVYUAN 3000 Watt Voltage Converter Transformer is a heavy-duty device designed for both step-up and step-down voltage conversion. It allows for seamless operation of electrical appliances across different voltage standards, converting 110-120 Volts to 220-240 Volts, and vice-versa. This unit is built with environmentally friendly materials, features a metal casing, and a fanless cooling design for odorless and noise-free operation.



Figure 1: Lvyuan 3000 Watt Voltage Converter Transformer.

It offers simultaneous 2-mode output with 110-120V USA output sockets and 220-240V universal output sockets, providing versatility for various devices. The transformer includes a detachable replacement power cord for adaptability in different countries. Safety features include full-range fuse protection and overcurrent protection, with a resettable circuit breaker that eliminates the need for fuse replacement in case of overload.

WHAT'S IN THE BOX

- Lvyuan 3000 Watts Voltage Converter
- Heavy Duty Insulated Power Cord with USA Grounded 3-Prong Plug
- User Manual

PRODUCT FEATURES

- **3000W Voltage Transformer:** Capable of stepping up voltage from 110-120V to 220-240V, and stepping down from 220-240V to 110-120V.
- **100% Loading Capacity:** Features simultaneous 110-120V USA output sockets and 220-240V universal output sockets.
- **Odorless and Noise-Free:** Constructed with environmentally friendly materials, metal casing, and fanless cooling for quiet operation.
- **Worldwide Use:** Compatible with various international power standards. Note: A plug adapter or compatible local power cord may be required for 220V-240V countries.
- **Multi-Functionality:** Suitable for use with any appliance or device up to 3000 watts. Be aware that some appliances (e.g., heating, power tools, motors) may require higher startup wattage.

- **Safety & Certification:** Equipped with a pure copper coil and a resettable circuit breaker for full-range fuse and overcurrent protection. FC CE ROSH certified.

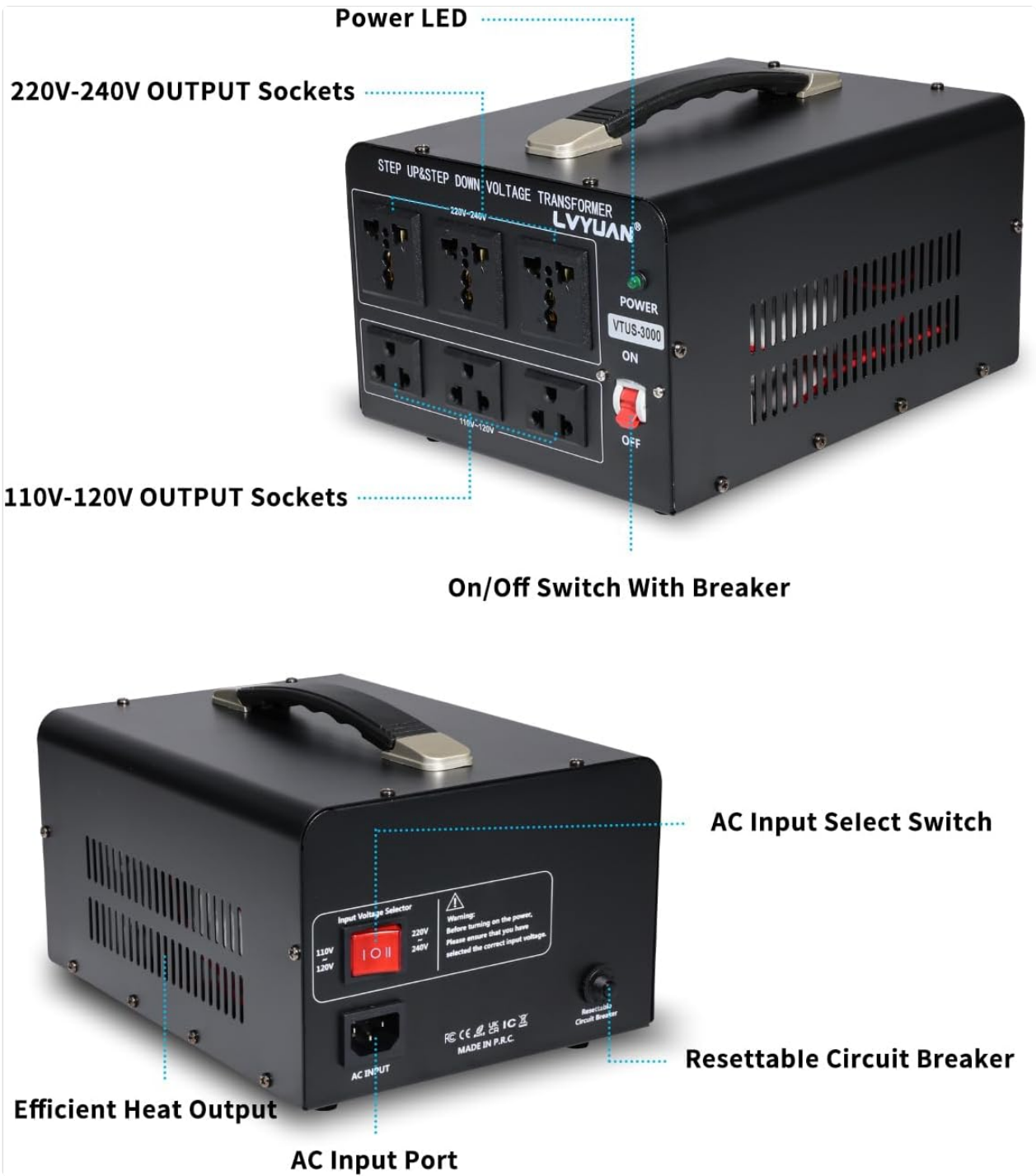


Figure 2: Detailed view of the voltage converter's front and back panels, highlighting output sockets, power LED, On/Off switch, AC input select switch, AC input port, efficient heat output, and resettable circuit breaker.



Figure 3: Close-up of the resettable circuit breaker, which eliminates the need for fuse replacement in case of overload. Simply press the FUSE BUTTON to restore the circuit.

SETUP AND OPERATING INSTRUCTIONS

1. Initial Setup

- 1. Select Correct Input Voltage:** Before connecting the power cord, ensure the AC Input Select Switch on the back of the unit is set to match your local power supply (e.g., 110V/120V or 220V/240V). This is crucial to prevent damage to the unit and connected appliances.
- 2. Connect Power Cord:** Plug the provided heavy-duty insulated power cord into the AC Input Port on the back of the converter.

3. **Plug into Wall Outlet:** Connect the other end of the power cord to a grounded wall outlet. If using in a country with a different plug type than the provided US plug, use a suitable plug adapter (sold separately).



Figure 4: Connecting the power cord to the wall outlet. Note that a plug adapter may be necessary depending on your region's outlet type.

2. Connecting Appliances

4. **Identify Appliance Voltage:** Determine the voltage requirement of the appliance you wish to power.
5. **Select Output Socket:**
 - For 110-120V appliances (e.g., US devices in a 220-240V region), use the 110V-120V USA Output

Sockets.

- For 220-240V appliances (e.g., European devices in a 110-120V region), use the 220V-240V Universal Output Sockets.

6. **Plug in Appliance:** Insert your appliance's plug into the corresponding output socket on the front of the converter.
7. **Power On:** Flip the red ON/OFF switch to the "ON" position. The green POWER LED will illuminate, indicating the unit is active.



Figure 5: Example of using the voltage converter to power overseas equipment in a different country, showing both step-up and step-down scenarios.

	Electrical power	Recommended transformer power
LED Desk/Floor Lamp	≤ 300W	500W
Laptop		
Gaming Console		
Electric Fan		
Air Purifier		
Microwave Oven	≤ 2000W	3000W
Coffee maker		
Electric Oven		
Toaster		
Electric wok		
Central Air Conditioner (Home)	≤ 4000W	5000W
Tankless Electric Water Heater		
Commercial Induction Cooktop		
High-Power Electric Heater		
<p>*The transformer only converts the voltage, not the frequency hz. If your appliance is not compatible with 50/60hz, it will have an effect on the usage effect.</p> <p>*Some appliances, such as heating appliances, Refrigerator, Air Conditioner and Coffee Maker, require 2-4 times more watts at start up than the printed rated wattage.</p> <p>*Appliances with motors may require from 3 to 7 times the listed wattage when starting. The startup load of the appliance or tool determines whether a transformer has the capability to power it.</p>		

Figure 6: Chart illustrating recommended transformer power for various electrical appliances. Always ensure the appliance's power consumption is less than the transformer's rated power. Note that some appliances, especially those with motors or heating elements, may have higher startup wattage requirements.

MAINTENANCE

- Keep the unit in a dry, well-ventilated area.
- Avoid blocking the ventilation slots to ensure proper heat dissipation.
- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Regularly check the power cord for any signs of damage.

TROUBLESHOOTING

No Power / Unit Not Turning On:

- Ensure the power cord is securely plugged into both the converter and the wall outlet.
- Verify that the wall outlet is functional by testing it with another device.
- Check the resettable circuit breaker on the back of the unit. If it has popped out, press it back in to reset.
- Confirm the ON/OFF switch is in the "ON" position.

Appliance Not Working:

- Ensure the appliance is correctly plugged into the appropriate output socket (110-120V or 220-240V).
- Verify that the AC Input Select Switch on the back of the converter is set to match your local input voltage.
- Check if the appliance's wattage exceeds the converter's 3000W capacity, especially for startup power.
- If the circuit breaker trips repeatedly, the connected appliance may be drawing too much power or there might be a fault with the appliance. Disconnect the appliance and try a lower-wattage device.

SPECIFICATIONS

Attribute	Value
Product Dimensions	10.24 x 7.48 x 6.3 inches
Item Weight	9.92 pounds
Item Model Number	LY-VT-3000VA
Brand	LVYUAN
Color	Black
Input Voltage	120 Volts (Switchable to 220V/240V)
Output Power	3000 Watts
Output Voltage	110-120V / 220-240V
Frequency	50Hz / 60Hz (Note: The transformer converts voltage, not frequency. Ensure your appliance is compatible with the frequency.)
Certifications	FC, CE, ROHS
Manufacturer	GuangZhouLvYuan technology co., LTD

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Item Model Number	:VTUS-3000VA	Output Power	:3000W
Input Voltage	:AC 110V-120V / 220V-240V	Output Voltage	:AC 220V-240V / 110V-120V
Frequency	:50Hz / 60Hz	Certification	:FC&CE&ROSH
Product Size	:9.84 x 7.48 x 5.51in	Net Weight	:14.43 lbs / 6.5 kg

Figure 7: Visual representation of the voltage converter's dimensions and key specifications.



Pure Copper Coil

Figure 8: Image showing the pure copper coil, a core component contributing to the transformer's durability and efficiency.

WARRANTY AND SUPPORT

The LVYUAN 3000 Watt Voltage Converter Transformer comes with a **3-Year Manufacturer's Limited Warranty**. For any support or warranty claims, please refer to the contact information provided in the original product packaging or visit the official LVYUAN website.

For additional information or to explore other LVYUAN products, you may visit the [LVYUAN Store on Amazon](#).

