



Automatic AC Voltage Converter (Automatic Voltage Step Up & Step Down)

Instruction Manual



Model No.: AT-501-2000VA~5000VA



Thank for purchasing this Voltage Converter.
Before operating this unit, please read this instruction manual
thoroughly and carefully. And keep this manual for future use.



1. PACKING CONTENT

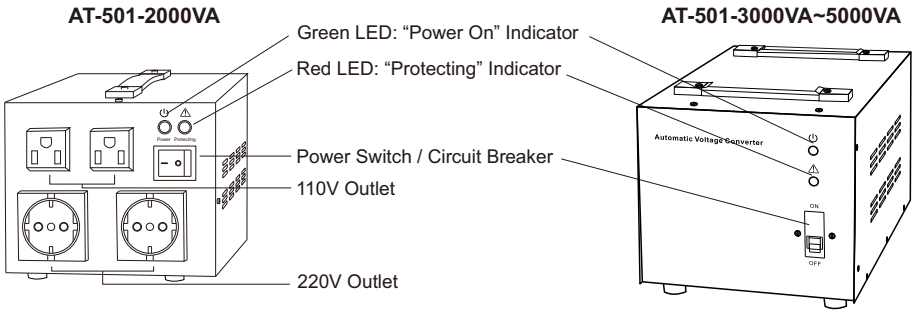
Voltage Converter.....1pc
 User's Manual.....1pc
 Travel Plug Adaptor.....1pc

2. FEATURES

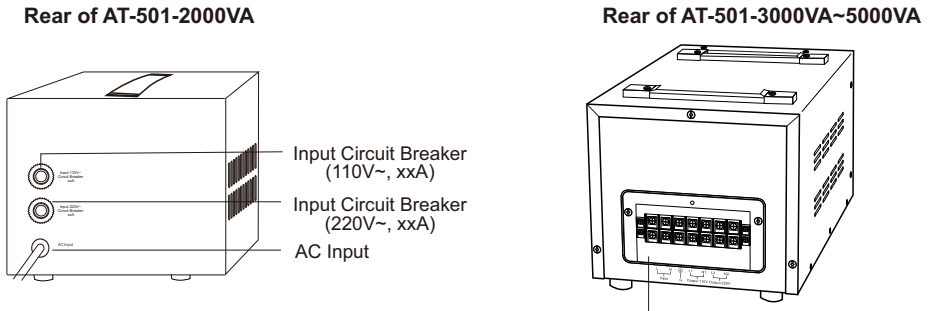
- US invention patent.
- Automatic step up & step down voltage converting, no need manual selecting input voltage.
- Dual output 120V and 230V simultaneously. The converted voltage is from the transformer, the same voltage is directly connected to mains supply.
- Low voltage protection and automatic resume.
- High voltage protection and automatic resume.
- Transformer coil overheat protection and automatic resume.
- Short circuit protection.

3. PRODUCT VIEW

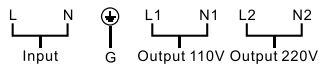
a. Front view of the converter



b. Rear view of the converter



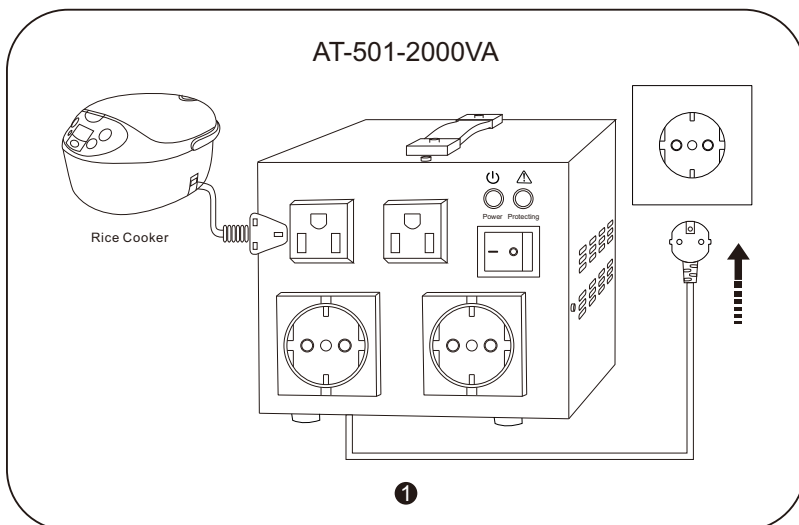
Wiring Diagram:
 3000VA~5000VA



4. SPECIFICATION

Model Number	AT-501-2000VA	AT-501-3000VA	AT-501-4000VA	AT-501-5000VA
Maximum Capacity @ Input 220-240V	2000 Watts	3000 Watts	4000 Watts	5000 Watts
Maximum Capacity @ Input 110-120V	2000 Watts	3000 Watts	4000 Watts	5000 Watts
Input Voltage	110Vac or 220Vac			
Output Voltage	220Vac or 110Vac			
Efficiency	>96%			
LED Indicator	Green LED: Power On Red LED: Protection (Output is cut off)			
Protection	Short Circuit Protection: Circuit Breaker Trip Off High Voltage Cutoff: Output is Cut Off Low Voltage Protection: Output is Cut Off Coil Overheating Protection: Output is Cut Off			
Protection Class	I			
IP Level	IP20			
Enviromental	Operating Temperature: -10°C ~ 40 °C Storage Temperature: -15°C ~ 45 °C Operating Humidity: <90%, non-condensing			
Machine Size	275x165x130mm	215x 210x310mm		

5. OPERATION OF THE CONVERTER



a. Connect the electrical appliances to the converter

- (1) Check the specifications of the appliance(s), make sure the total starting power does not exceed the maximum capacity of the converter.
- (2) Make sure all appliance(s) are turned "OFF" before connection.
- (3) Connect the appliance(s) to the converter.
If the input voltage of appliance(s) is 110-120V, connect it (them) to the 110V outlet of the converter. If it is 220-240V, then connect it (them) to the 220V outlet.



**The converter delivers dual output 110V and 220V simultaneously!
Do not plug the appliance into the wrong outlet of the converter!
Otherwise the appliances might be damaged.**

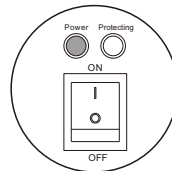


b. Connect converter to mains supply

Plug the input plug of converter into the wall socket.

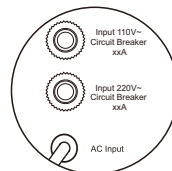
c. Switch on the converter

- (1) Press the power switch to "ON" position and GREEN LED will light up.
- (2) Switch "ON" the appliance(s).



d. Using Your Automatic Voltage Converter

- * (1) If circuit breakers trips off, it means the converter is over-loaded, or a short circuit happens inside the converter or inside the appliance(s).
 - * (2) Switch off the converter, unplug it from the wall socket, unplug the appliance(s) from the converter.
 - * (3) Reset the circuit breaker by the button on its back, plug it again into the wall socket, then switch it on to check if the converter is ok or not.
- (4) If the converter is ok, check the appliance(s).



Reset Button



e. When the RED LED lights up

- (1) When input voltage is out of normal range, the converter will go into the high or low voltage protection status. The output of converter will be cut off automatically, and the RED LED will light up.
The output will be automatically restored once the input voltage returns to normal range.
- (2) The converter is built with a thermal sensor to detect the temperature of transformer coils. When the temperature exceeds the limit, the output of converter will be cut off automatically, and the RED LED will light up.
Check if connected appliance(s) exceeds the maximum capacity of converter. Or wait until the coils of converter cool down, the output will be automatically restored.

6. CAUTIONS

- Make sure the appliance is connected to the correct outlets before switching on the converter.
- Do not connect any appliances whose total power is over the maximum power of the converter.
- For any appliance with built-in motor or compressor, whose starting power is generally several times than the rated power that is listed in the rating label. It is recommended to calculate its starting power at least as twice as its rated capacity if the starting power is not specified.
- The converter does not change the frequency of the input supply.
Make sure the appliances can accept the same frequency of the input supply.
- Earth cable connection of the converter and appliance must be secured.

7. PLACEMENT

- Place the converter in a place where it's cool, dry and well ventilated.
- Place the converter in a place where the children can't reach for.
- Do not place the converter in or near water.
- Do not place converter on an unstable cart, stand or table.
- Do not place converter under direct sunlight, excessive humidity.
- Keep away from fire, heat sources.
- Keep away from corrosive gas or fluid.
- Do not place power cord in any area where it may get damaged by heavy objects.



The converter can only be repaired by the authorized technical service personnel. Any attempt to open and to repair by the user on his own could prove to be dangerous.



Placing magnetic storage media on top of the converter may result in data corruption.



Earth connections for the converter and for all appliances connected should be secured. Without earth connection or unproved earth connections are dangerous for user's health, and have high risk of electronic circuit board faults.

