

kunghei DT-10000W

kunghei DT-10000W Step Up/Down Voltage Converter Transformer

USER MANUAL

Introduction

This manual provides essential instructions for the safe and efficient operation of your kunghei DT-10000W Step Up/Down Voltage Converter Transformer. This device is designed to convert electrical voltage between 110V/120V and 220V/240V, making it suitable for various home and industrial applications. Please read this manual thoroughly before use and retain it for future reference.

Important Safety Information

- **Appliance Wattage:** Always ensure that the total wattage of the appliance(s) connected to the transformer is significantly less than the transformer's rated capacity. For optimal safety and performance, it is recommended that the transformer's maximum power rating be at least 2.5 times greater than the appliance's power rating. For example, if your appliance is rated at 100 watts, select a transformer with a maximum power of 250 watts or greater.
- **Indoor Use Only:** This transformer is designed for indoor use in dry environments. Do not expose it to rain, moisture, or extreme temperatures.
- **Ventilation:** Ensure adequate ventilation around the transformer. Do not block the cooling vents.
- **Grounding:** Always connect the transformer to a properly grounded electrical outlet.
- **Power Cord Connection:** The main power wire for the transformer needs to be connected by the user. Ensure proper and secure connection according to electrical safety standards.
- **Overload Protection:** The unit features overload protection (fuse or switch). If an overload occurs, the protection will activate. Disconnect appliances and reduce the load before resetting.
- **Children and Pets:** Keep the transformer out of reach of children and pets.
- **Unplug When Not in Use:** Disconnect the transformer from the power source when not in use or during cleaning.

Product Overview

The kunghei DT-10000W transformer is a robust device designed for reliable voltage conversion. It features multiple output sockets and safety mechanisms.



Image 1: Front Panel Overview. This image displays the front panel of the DT-10000W transformer, showing the two 110V output sockets, two 220V output sockets, the power indicator light, and the power switch. The unit also features two sturdy handles on top for portability.

Front Panel Components:

- **110V Output Sockets:** Two grounded outlets for 110V appliances.
- **220V Output Sockets:** Two universal outlets for 220V appliances.
- **Power Indicator Light:** Illuminates when the unit is powered on.
- **Power Switch:** Controls the main power to the unit.
- **USB Port:** A 5V standard USB jack for charging small devices.

Widely Used



Image 2: Rear Panel Input Selection. This image shows the rear panel of the DT-10000W transformer, highlighting the AC Input Selector. Users must connect the power wire to either the 110V or 220V input terminals based on the local power supply.

Rear Panel Components:

- **AC Input Selector:** Terminals for connecting the main power wire, allowing selection between 110V and 220V input.
- **Cooling Vents:** Designed for efficient heat dissipation.

Product Details



Stable Support Feet
Add Stability



Portable Hand Straps
Easy to Carry



Smooth Edge
Protect You from Scratches

Image 3: Product Details. This image illustrates key physical features of the transformer, including stable support feet for added stability, portable hand straps for easy carrying, and smooth edges designed to prevent scratches.

Safety Guard



Image 4: Safety Features. This image highlights the safety aspects of the DT-10000W, including dense cooling holes for heat dissipation, overload protection, over-temperature protection, and Class B insulation level.

Setup

- 1. Unpacking and Inspection:** Carefully remove the transformer from its packaging. Inspect the unit for any signs of damage during transit. If damage is found, do not use the unit and contact customer support.
- 2. Placement:** Place the transformer on a stable, flat, and dry surface. Ensure there is ample space around the unit for proper ventilation. Do not place it near heat sources or in direct sunlight.
- 3. Connecting the Power Wire:** The main power wire for the transformer needs to be connected by the user. Locate the AC Input Selector on the rear of the unit. Based on your local power supply (110V or 220V), securely connect the appropriate power wire to the designated input terminals. Ensure all connections are tight and correct to prevent electrical hazards.
- 4. Initial Power-Up:** Before connecting any appliances, plug the transformer's power cord into a wall outlet. Turn the power switch to the "ON" position. The power indicator light should illuminate.

Operating Instructions

Converting 110V to 220V (Step-Up):

1. **Verify Appliance Wattage:** Ensure the appliance you intend to use requires 220V and its wattage is within the safe operating limits of the transformer (transformer capacity should be at least 2.5 times the appliance wattage).
2. **Connect Input Power:** Ensure the transformer's input is correctly wired for 110V (refer to "Connecting the Power Wire" in Setup). Plug the transformer's power cord into a standard 110V wall outlet.
3. **Power On:** Turn the transformer's power switch to the "ON" position. The power indicator light will illuminate.
4. **Connect Appliance:** Plug your 220V appliance into one of the 220V output sockets on the front panel.
5. **Operate Appliance:** Turn on your appliance.

Converting 220V to 110V (Step-Down):

1. **Verify Appliance Wattage:** Ensure the appliance you intend to use requires 110V and its wattage is within the safe operating limits of the transformer (transformer capacity should be at least 2.5 times the appliance wattage).
2. **Connect Input Power:** Ensure the transformer's input is correctly wired for 220V (refer to "Connecting the Power Wire" in Setup). Plug the transformer's power cord into a standard 220V wall outlet.
3. **Power On:** Turn the transformer's power switch to the "ON" position. The power indicator light will illuminate.
4. **Connect Appliance:** Plug your 110V appliance into one of the 110V output sockets on the front panel.
5. **Operate Appliance:** Turn on your appliance.

Note: All output sockets (110V, 220V, and USB) can be used simultaneously, provided the total combined wattage of all connected devices does not exceed the transformer's rated capacity.

Product Parameter



Model : DT-10000	Voltage Conversion : Step-Up & Down
Rated Current : 36A	Number of Outlets : 4
Power Source : Corded Electric	Output Voltage : 110/220V
Input Voltage : 110/220V	Product Capacity : 10KVA
Frequency : 50Hz/60Hz	Working Temperature : -58~122°F

Image 5: Product Parameters. This image presents a table detailing the technical specifications of the DT-10000W model, including its dimensions, rated current, power source, input/output voltage, frequency, voltage conversion type, number of outlets, product capacity, and working temperature range.

Maintenance

- **Cleaning:** Ensure the transformer is unplugged and turned off before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or solvents. Keep the cooling vents free from dust and debris.
- **Storage:** When not in use for extended periods, store the transformer in a cool, dry place, away from direct sunlight and moisture.
- **Fuse/Circuit Breaker:** The unit is equipped with overload protection. If the unit stops functioning due to an overload, disconnect all appliances, turn off the unit, and allow it to cool. Reset the circuit breaker if present, or check for a blown fuse (consult a qualified technician if unsure about fuse replacement).

Troubleshooting

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No power / Unit does not turn on	Power cord not securely connected. Wall outlet not supplying power. Internal circuit breaker tripped.	Check power cord connection to unit and wall outlet. Test wall outlet with another device. Disconnect all appliances, turn off the unit, wait a few minutes, then reset the circuit breaker (if applicable).
No output voltage	Transformer not powered on. Overload protection activated. Incorrect input voltage selection.	Ensure power switch is ON and indicator light is lit. Reduce connected load and reset overload protection. Verify the power wire is connected to the correct input terminals (110V or 220V) on the rear panel.
Unit overheats	Overloaded. Insufficient ventilation.	Reduce the total wattage of connected appliances. Ensure cooling vents are clear and there is adequate airflow around the unit.

Specifications

Model	DT-10000W
Brand	kunghei
Voltage Conversion	Step-Up & Step-Down (110V to 220V, 220V to 110V)
Product Capacity	10 KVA (10000W)
Input Voltage	110V / 220V (User selectable via wiring)
Output Voltage	110V / 220V
Rated Current	36A
Frequency	50Hz / 60Hz
Voltage Regulation Speed	<1 second (when input voltage changes 10%)
Overload Protection	Fuse or Overload Protection Switch
Insulation Class	Class B
Working Temperature	-5°C to +40°C (23°F to 104°F)
Temperature Rise Protection	Yes
Number of Outlets	4 (2x 110V, 2x 220V) + 1x USB (5V)
Dimensions (L x W x H)	13.58 inches x 9.57 inches x 8.5 inches

Warranty and Support

For warranty information, please refer to the documentation provided with your purchase or contact the seller directly. If you encounter any issues or require technical assistance, please reach out to the manufacturer or your point of purchase for support.