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### HITBOX XN650P-B

# HITBOX Plug Adapter Cord: NEMA 6-50P to NEMA 5-15R Instruction Manual

Model: XN650P-B | Brand: HITBOX

## 1. INTRODUCTION

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This HITBOX Plug Adapter Cord (Model XN650P-B) is designed to change the plug style from a NEMA 6-50P configuration to a NEMA 5-15R configuration. It is crucial to understand that **this adapter does not convert voltage**. It acts as a pass-through for the existing voltage. Therefore, any device connected to this adapter must be compatible with the voltage supplied by the NEMA 6-50R outlet (typically 250V). This adapter is primarily intended for use with dual-voltage equipment, such as certain welding machines, that can safely operate on both 120V and 250V.



The HITBOX Plug Adapter Cord, featuring a NEMA 6-50P male plug and a NEMA 5-15R female receptacle, designed to adapt plug styles for compatible devices.

## 2. SAFETY INFORMATION

**WARNING: ELECTRICAL HAZARD. THIS ADAPTER DOES NOT CONVERT VOLTAGE.** Connecting a 120V-only device to this adapter when the power source is 250V will result in severe damage to the device and poses a risk of fire or electric shock. Only use this adapter with devices explicitly rated for the voltage supplied by the NEMA 6-50R outlet (typically 250V).

- Always verify the voltage requirements of your device and the voltage supplied by the outlet before connecting.
- Do not use this adapter if it appears damaged or frayed.
- Ensure all connections are secure and fully inserted.
- Keep the adapter away from water and moisture.
- Do not overload the adapter beyond its rated capacity.

- Unplug the adapter from the power source when not in use.
- Do not modify the adapter or attempt to repair it.



Important safety label on the adapter cord, clearly indicating that this product changes plug style only and does not convert voltage. Ensure your device supports the voltage of the power source.

### 3. PRODUCT FEATURES

- **Voltage Pass-Through:** This adapter facilitates a connection between a NEMA 6-50R outlet (typically 250V) and a NEMA 5-15P device plug (typically 120V). It does not convert voltage, so the connected device must be dual-voltage compatible.
- **Industrial 14 AWG Gauge & Fire-Safe Design:** Features UL-listed 14 AWG (2.08mm<sup>2</sup>) copper wiring, capable of withstanding 30A/3600W loads without overheating. The flame-retardant PVC jacket provides resistance against sparks and welding debris.
- **Precision 11.8" (30cm) Short Run Length:** Engineered to be tangle-free for workshop mobility, preventing snagging on welding carts or generators. Ideal for use in tight spaces near breaker boxes or equipment racks.

- **NEMA 6-50P Plug Compatibility:** The male plug connects to standard 250V NEMA 6-50R receptacles, commonly found in welding setups.
- **NEMA 5-15R Receptacle:** The female receptacle accepts standard 120V household plugs (NEMA 5-15P).
- **Corrosion-Resistant Copper Terminals:** Gold-plated contacts minimize voltage drop (<3%). Reinforced rubber strain relief prevents wire fatigue in rugged job site conditions.



A detailed view of the adapter's construction, highlighting the industrial 14 AWG (2.08mm<sup>2</sup>) copper wiring and flame-retardant PVC jacket for durability and safety.



NEMA 5-15R



NEMA 6-50P



**30A TO 50A**

Illustration of the NEMA 5-15R receptacle and NEMA 6-50P plug, demonstrating the adapter's compatibility for connecting devices with a 5-15P plug to a 6-50R outlet.

## 4. SETUP

1. **Verify Compatibility:** Before connecting, ensure your device is rated for the voltage supplied by the NEMA 6-50R outlet (typically 250V). This adapter does not convert voltage.
2. **Connect to Power Source:** Insert the NEMA 6-50P male plug of the adapter cord firmly into a compatible NEMA 6-50R wall receptacle.
3. **Connect Device:** Plug your device's NEMA 5-15P male plug into the NEMA 5-15R female receptacle of the adapter cord. Ensure a snug fit.
4. **Power On:** Once both connections are secure and compatibility is confirmed, you may power on your device.



The compact design of the adapter cord, approximately 11.8 inches (30cm) long, making it suitable for use in tight spaces and preventing tangles.

## 5. OPERATING INSTRUCTIONS

Once properly connected, the adapter cord allows your dual-voltage device to draw power from the NEMA 6-50R outlet. Monitor your device for any signs of malfunction or overheating, especially during initial use. Always ensure the adapter is not subjected to physical stress or excessive pulling.

This video demonstrates the use of a NEMA 6-50P adapter to connect welding equipment to compatible 5-20R or 6-20R outlets. It highlights the adapter's function in changing plug styles for welder applications.

Watch this video for a visual guide on connecting a 6-50 welder adapter. It illustrates how the adapter facilitates the use of welding equipment with different receptacle types, specifically mentioning 10-30 to 6-50 connections.

## 6. MAINTENANCE

- **Cleaning:** Wipe the adapter with a dry, clean cloth. Do not use liquid cleaners or immerse in water.
- **Storage:** Store the adapter in a cool, dry place away from direct sunlight and extreme temperatures when not in use. Avoid kinking or tightly coiling the cord.
- **Inspection:** Periodically inspect the cord and plugs for any signs of wear, cuts, cracks, or discoloration. Discontinue use immediately if any damage is observed.

## 7. TROUBLESHOOTING

Issue	Possible Cause	Solution
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Issue	Possible Cause	Solution
Device not powering on.	Incorrect voltage compatibility; loose connection; power outage; faulty device.	Ensure device is rated for 250V. Check all connections are secure. Verify power to the NEMA 6-50R outlet. Test the device with a known working power source.
Adapter or device is overheating.	Overload; damaged adapter; improper ventilation.	Immediately disconnect power. Reduce the load on the adapter. Inspect the adapter for damage. Ensure adequate ventilation around the device and adapter.
Sparks or smoke observed.	Severe electrical fault; damaged wiring.	<b>IMMEDIATELY DISCONNECT POWER FROM THE SOURCE.</b> Do not use the adapter again. Contact a qualified electrician for inspection of the outlet and device.

## 8. SPECIFICATIONS

- **Model Number:** XN650P-B
- **Brand:** HITBOX
- **Plug Type:** NEMA 6-50P (Male)
- **Receptacle Type:** NEMA 5-15R (Female)
- **Cable Length:** 30 cm (11.8 inches)
- **Wire Gauge:** 14 AWG (2.08mm<sup>2</sup>)
- **Voltage Rating:** 250 Volts (Pass-through, no conversion)
- **Current Rating:** 30 Amps (Max)
- **Power Rating:** 3600 Watts (Max)
- **Material:** Copper wiring, PVC jacket
- **Certifications:** UL-listed
- **Item Weight:** 8.1 ounces
- **Color:** Black

## 9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your HITBOX Plug Adapter Cord, please refer to the product packaging or contact HITBOX customer service directly. Contact details can typically be found on the manufacturer's official website or through your point of purchase.