

AstroAI

**ASIACTODC-10 DC
Power Supply Adapter
Transformer**



AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer User Manual

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AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer



Thank you for purchasing the Electrical Power Converter from AstroAI. The AstroAI Electrical Power Converter is designed to convert standard 100-240V AC to 12V DC to easily adapt devices for use in the home. This manual provides all safety information, operation instructions, specifications, and maintenance for the Converter. Thank you again for choosing AstroAI, if you have any questions or concerns regarding your product, please contact us at: support@astroai.com.

Introduction

This article will talk about the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer, a very useful and efficient gadget that changes home AC power into a steady 12V DC output. This adapter transformer has advanced safety features like overvoltage, overcurrent, and short circuit protection to make sure it works reliably and safely. It can power a wide range of electrical devices in cars and homes. The small size and portability of this tool make it useful for both home and travel use. The built-in LED light makes it easy to check the power state. Certified by CE, FCC, and RoHS, the AstroAI ASIACTODC-10 is a reliable power converter that works well with many DC-powered products.

NOTE: Fully read and understand this manual before using this Converter.

WARNING

- Do not expose the converter to moisture, rain, or snow
- Do not operate the converter if it has any damage to the cord or casing
- Do not disassemble the converter. Incorrect reassembly may result in shock or fire hazard

- To reduce the risk of electric shock, unplug the converter before attempting any maintenance or cleaning
- Do not use this converter in any application outside of its intended use
- Only use this converter using standard 100-240V AC electrical outlets. Any attempt to overload the device may result in injury or damage to the device

Safety Features and Certifications

- Over Voltage Protection: Protect at a minimum of 12.8V and at a maximum of 13.5V output.
- Short Circuit Protection: Automatically enter a protected status during a short circuit.
- Over Current Protection: Protect at a minimum of 12A and a maximum.
- Meets IEC60950 and EN55022 standard requirements
- FCC Safety Certification
- CE Safety Certification
- RoHS

Specifications

- Dimensions: 168x65x40mm
- Operating Input Voltage Range: 100-240V AC
- Input Frequency Range: 50-60Hz
- Output Voltage: 12V DC
- Output Power: 120W
- DC Output Current: 10 A
- Over Voltage Protection Limits: 12.8-13.5V
- Operating Temperature: 32°F~176°F (0°C~80°C)
- Storage Temperature: -4°F~185°F (-20°C~85°C)
- Operating Humidity: 20~85% Relative Humidity
- Storage Humidity: 10-90% Relative Humidity

Features

- **High Conversion Efficiency:**

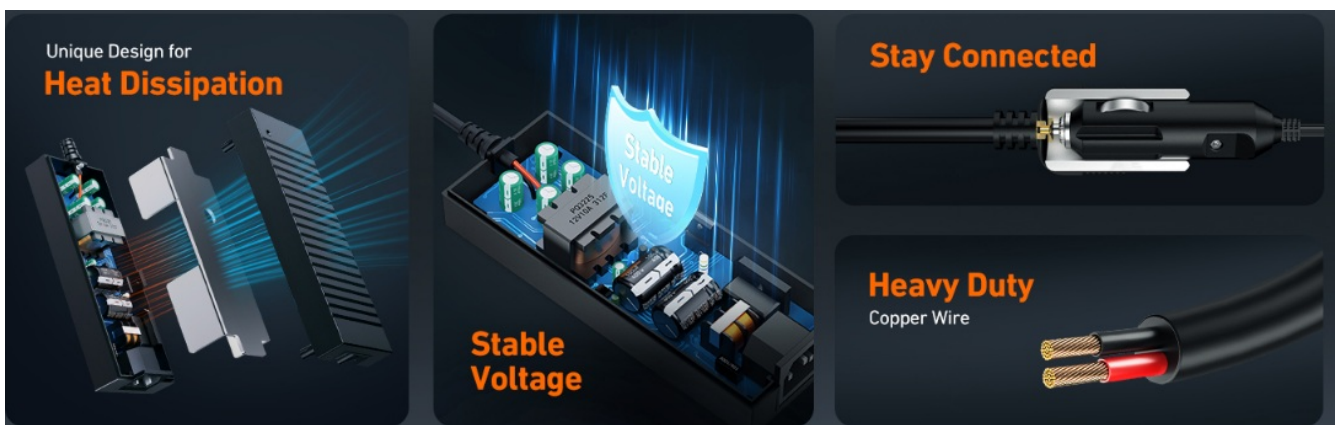
The AstroAI ASIACTODC-10 is engineered to deliver optimal power conversion, transforming AC power from your household outlets into a stable 12V DC output. Its high-efficiency design minimizes energy loss during the conversion process, ensuring that more power is directed to your devices. This efficiency not only enhances performance but also contributes to the longevity of your electronic equipment by providing consistent power.



- **Safety Protections:**



Safety is paramount with the AstroAI ASIACTODC-10. It incorporates multiple built-in protections, including safeguards against overvoltage, overcurrent, overheating, and short circuits. These features are designed to prevent potential damage to your devices and the power adapter itself, ensuring safe and reliable operation. Whether you're powering sensitive electronics or robust automotive tools, you can trust that your devices are well-protected.



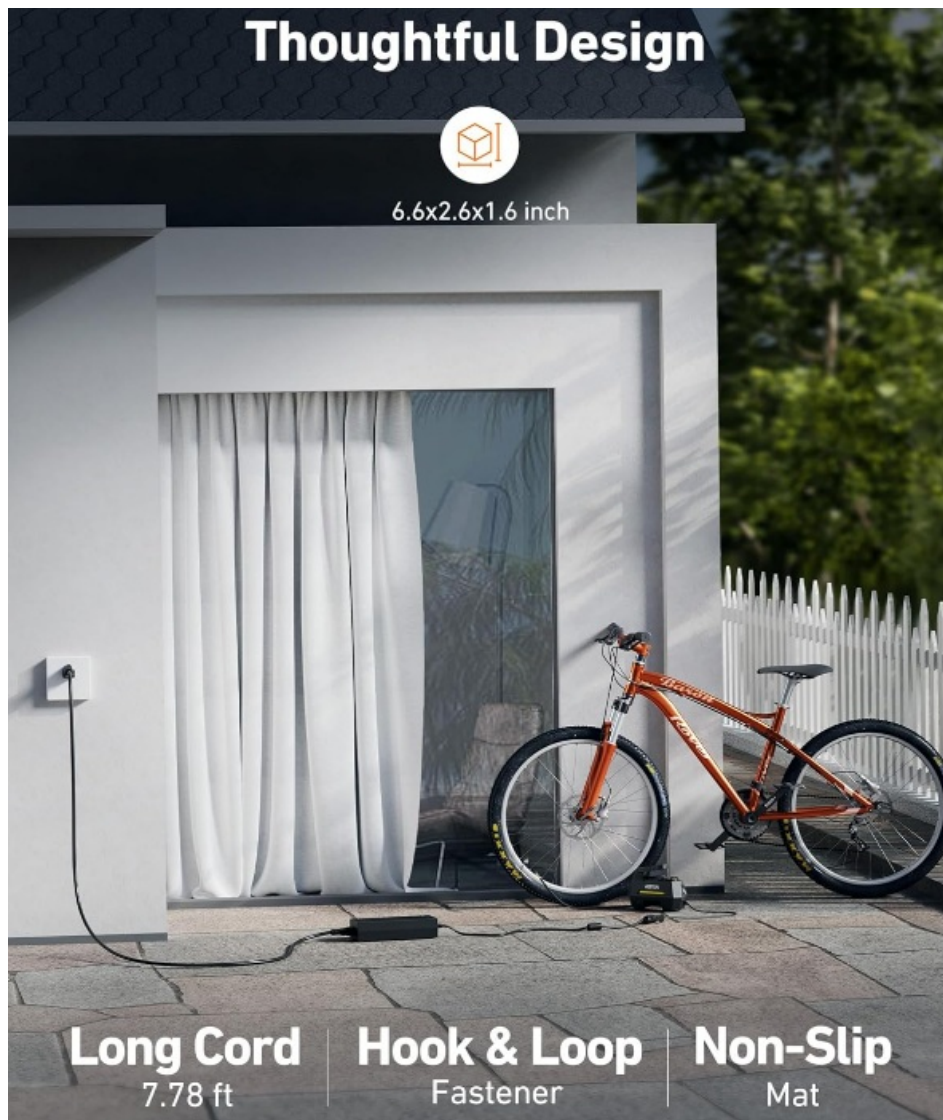
- **Universal Compatibility:**

This power supply adapter is highly versatile, making it suitable for a wide range of DC-powered devices. Whether you need to power an air compressor, a tire inflator, or other automotive accessories, the AstroAI ASIACTODC-10 is up to the task. Its universal compatibility means you can rely on it to power nearly any 12V device, making it an essential tool for both home and automotive use.

- **Portable Design:**

The AstroAI ASIACTODC-10 features a compact and lightweight design, making it easy to transport and store. Its small footprint allows it to fit conveniently in toolboxes, glove compartments, or storage shelves, ensuring

that you always have access to DC power when you need it. The portable design is perfect for users who require a reliable power source on the go.



- **LED Indicator:**

The adapter includes a bright LED indicator that provides an immediate visual cue of the power status. This simple yet effective feature allows you to quickly confirm whether the adapter is functioning correctly, reducing the risk of power-related issues. The LED indicator is especially useful in low-light environments, ensuring that you can easily monitor the adapter's status.

- **Check out Our Video:**

Take a quick tour of the AstroAI Converter: The universal usage of its 7.78ft long cable, 10A, and 120W power output allows any 12V car accessory to be used with a household electrical outlet. The video showcases its flexibility and ease of use, demonstrating how it seamlessly integrates with a wide range of devices.

- **Safety:**

The AstroAI ASIACTODC-10 is built with premium materials and advanced safety features to protect against a variety of potential hazards. These include overcharging, short circuits, overpowering, overcurrent, overheating, over-discharge, and overvoltage. The robust safety features ensure that your devices are protected from unexpected electrical issues, providing peace of mind whether you're using it at home or on the road.

- **Utilitarian Design:**

The AC-to-DC converter is designed to integrate seamlessly with various portable devices. It works perfectly with portable air compressors, car fans, car refrigerators and coolers, vacuum cleaners, dash cams, air purifiers, and more. This utilitarian design makes it an invaluable accessory for anyone who relies on DC-

powered devices in their daily life.

- **Plug and Play:**

The AstroAI ASIACTODC-10 offers true plug-and-play functionality. Simply plug the 110V to 12V converter into a standard power outlet, connect your 12V device, and you're ready to go. There's no need for complicated setup procedures or additional equipment. This ease of use makes it an ideal choice for users who need a quick and reliable power solution.

Usage

1. **Connecting Devices:** Plug the DC output connector into the device that requires 12V DC power.
2. **Powering On:** Connect the power cord to a standard AC outlet, then switch on the device.
3. **Operation:** The device should now be powered and ready for use. Monitor the LED indicator to ensure the power supply is functioning correctly.

Care and Maintenance

- **Keep Clean:** Regularly wipe the exterior with a dry cloth to remove dust and dirt.
- **Avoid Moisture:** Do not expose the adapter transformer to water or moisture to prevent electrical hazards.
- **Proper Storage:** When not in use, store the adapter in a cool, dry place away from direct sunlight.
- **Inspect Regularly:** Check the power cord and connections for any signs of wear or damage. Replace if necessary.

Troubleshooting

Issue	Possible Cause	Solution
No power output	The power cord not plugged in	Ensure the power cord is securely connected.
Device not working after the connection	Incorrect voltage selection	Verify that the device requires 12V DC power.
Overheating during operation	Overload or poor ventilation	Reduce load or improve ventilation around the unit
Flickering LED indicator	Unstable power supply	Check the AC outlet for stability.
Sudden power cut-off	Overcurrent protection engaged	Disconnect, reduce load, and reconnect.

Pros and Cons

Pros:

- Versatile and reliable power solution for 12V devices
- Compact and lightweight design for easy portability
- Safety features for overcharge, short circuit, and overheating protection
- Long 7.78 ft cord for convenient placement
- Affordable price point

Cons:

- Not suitable for high-power devices exceeding 120W
- May require an adapter for certain 12V accessories

Contact Information

For any questions, concerns, or warranty claims related to your AstroAI ASIACTODC-10, please contact our customer support team:

- **By emailing:** support@astroai.com
- **Website:** www.astroai.com

Warranty

The AstroAI ASIACTODC-10 comes with a 3-year limited warranty from the date of purchase. This warranty covers defects in material and workmanship under normal use and service. The warranty does not cover damage resulting from neglect, misuse, contamination, alteration, accident, or abnormal conditions of operation or handling.

FAQs

What is the input voltage range for the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer?

The AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer operates with an input voltage range of 100-240V AC, making it compatible with most household power outlets worldwide.

What devices can be powered using the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer?

The AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer is suitable for powering various 12V DC devices, including automotive accessories like air compressors, tire inflators, car fans, and more.

Is the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer portable?

The AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer is designed to be compact and lightweight, making it easy to carry and store for use at home or on the go.

What is the output voltage of the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer?

The AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer provides a stable output voltage of 12V DC, suitable for powering a wide range of devices.

How does the LED indicator on the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer function?

The LED indicator on the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer provides a clear visual indication of the power status, allowing users to quickly confirm that the adapter is functioning properly.

What certifications does the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer hold?

The AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer is certified by CE, FCC, and RoHS, ensuring that it meets international safety and performance standards.

How long is the power cord included with the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer?

The AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer comes with a power cord that is approximately 3.3 feet (1 meter) long, providing adequate reach for most applications.

Is the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer compatible with all 12V devices?

The AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer is compatible with most 12V DC devices, but users should always check the device's specifications to ensure compatibility.

What is the power output capacity of the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer?

The AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer has a power output capacity of 120W, making it capable of powering a variety of 12V devices.

What should I do if the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer overheats during use?

If the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer overheats, it is recommended to reduce the load on the adapter or improve ventilation around the unit to prevent further overheating.

What is the operating temperature range for the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer?

The AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer operates within a temperature range of -10°C to 40°C, ensuring reliable performance in various environments.

What should I check if the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer is not powering my device?

If the AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer is not powering your device, ensure that the power cord is securely connected, the device requires 12V DC power, and that there are no overload or short circuit conditions.

Download this Manual: [AstroAI ASIACTODC-10 DC Power Supply Adapter Transformer User Manual](#)

References

- [User Manual](#)

