

HKY HKY ResMed AirSense 10 DC Converter

HKY DC Converter for ResMed AirSense 10 Series CPAP Machines

Instruction Manual

1. INTRODUCTION

This manual provides instructions for the HKY DC Converter, designed to power your ResMed AirSense 10, AirStart 10, or AirCurve 10 series CPAP/BiPAP machine from a 12V-24V DC power source, such as a vehicle or portable power station. This converter ensures stable and efficient power delivery for your respiratory therapy device while traveling or during power outages.

2. COMPATIBILITY

The HKY DC Converter is compatible with the following ResMed CPAP/BiPAP machine series:

- **ResMed AirSense 10 Series:** AirSense 10, AirSense 10 Elite, AirSense 10 AutoSet, AirSense 10 AutoSet for Her.
- **ResMed AirStart 10 Series:** AirStart 10 CPAP, AirStart 10 Auto CPAP.
- **ResMed AirCurve 10 BiLevel Machines:** AirCurve 10 S, AirCurve 10 ST, AirCurve 10 VAuto, AirCurve 10 ASV.
- **ResMed Lumis VPAP Series:** Lumis 100 VPAP S, Lumis 150 VPAP ST BiLevel Machines.

Note: This converter is specifically designed for ResMed S10 series machines. It is **not** compatible with ResMed S8, S9, or S11 series machines due to different connector types.



Figure 2.1: Compatible ResMed CPAP/BiPAP models.



Figure 2.2: Connector compatibility for ResMed S10 series (left, green check) versus incompatible series (right, red X).

3. PRODUCT FEATURES

- **Wide Input Voltage:** Supports DC input from 12V to 24V (9V-32V Max), suitable for various vehicles and portable power stations.
- **Output:** 24V, 3.75A-4.16A, 90W-100W Max, specifically matched for ResMed AirSense 10 series.
- **Safety Certifications:** CE, FCC, RoHS certified for reliable and safe operation.
- **Durable Cable:** Heavy-duty 18AWG pure copper power cord, UL1185 certified, with a total length of 9-11 feet (approximately 2.7-3.3 meters).
- **Compact and Portable:** Lightweight design for easy travel and storage.

The shell material is made of high-quality PC
Heat resistant and non-flammable

PC

Flame resistance
applies to UL94-V1



Figure 3.1: HKY DC Converter with car charger plug.

**Protect Your
Device With
Upgraded IC
Components**

SECURITY

TEN LAYERS OF PROTECTION SAFETY ESCORT



Figure 3.2: The compact design makes the converter easy to transport.



Figure 3.3: Dimensions of the HKY DC Converter.

4. SETUP INSTRUCTIONS

Follow these steps to set up your HKY DC Converter:

1. **Connect to Power Source:** Insert the cigarette lighter plug of the HKY DC Converter into your vehicle's 12V or 24V accessory socket (cigarette lighter port) or a compatible DC output port on a portable power station.
2. **Connect to CPAP Machine:** Connect the barrel connector end of the HKY DC Converter to the power input port on your ResMed AirSense 10 series CPAP/BiPAP machine.
3. **Verify Connection:** Ensure both connections are secure. Your CPAP machine should power on or indicate a power connection.

The converter is designed for use in various vehicles, including cars, trucks, SUVs, RVs, and boats.



The power adapter is made of high-quality materials and has a charging protection system, To avoid overheating, overdischarging, overvoltage, overshoot or short circuit



Over heat
protection



Over discharge
protection



Over voltage
protection



Over charge
protection



Intelligent current
matching

Figure 4.1: Connecting the DC converter to a CPAP machine in a vehicle.

Replaceable 15A Ceramic Fuse

Stay protected with an easily-swappable replaceable 15A ceramic fuse(6x30mm Common Fuse in Local Store) to provide overcurrent protection.



Figure 4.2: The converter is suitable for a wide range of 12-24V vehicles.

5. OPERATING INSTRUCTIONS

Once the HKY DC Converter is properly connected to both your power source and your ResMed CPAP machine, the machine will operate as it would with its standard AC adapter. No special settings are required on the converter itself. Ensure your vehicle's engine is running or your portable power station has sufficient charge to provide continuous power to your CPAP device throughout its use.

Your browser does not support the video tag.

Video 5.1: Demonstration of the HKY DC Converter powering a ResMed AirSense 10 CPAP machine.

6. SAFETY FEATURES AND PRECAUTIONS

The HKY DC Converter incorporates multiple safety features to protect your device and ensure safe operation:

- **InnerShield Protection:** Provides protection against over-current, over-power, over-voltage, over-temperature, and short-circuiting.
- **Flame-Retardant Material:** The PC exterior is shockproof and flame-retardant, meeting UL94-V1 standards.
- **Replaceable Fuse:** Features an easily swappable 15A ceramic fuse (6x30mm common fuse) for overcurrent protection and extended service life.

General Safety Precautions:

- Do not expose the converter to water or excessive moisture.
- Avoid dropping or subjecting the converter to severe impacts.
- Do not attempt to disassemble or modify the converter.
- Ensure proper ventilation around the converter during use.



Figure 6.1: The converter features multiple layers of protection.



Figure 6.2: Replaceable 15A ceramic fuse for enhanced safety.

Universal Compatibility



AirSense 10:

AirSense 10 Series
AirSense 10 CPAP
AirSense 10 Elite
AirSense 10 AutoSet
AirSense 10 AutoSet for Her



AirCurve 10 Bilevel:

AirCurve 10S
AirCurve 10 VAuto
AirCurve 10 ASV



AirStart 10:

AirStart 10 CPAP
AirStart 10 APAP



Lumis:

Lumis 100 VPAP S
Lumis 150 VPAPST
Lumis 150 VPAP ST-A

Figure 6.3: High-quality PC material for heat and flame resistance.

7. SPECIFICATIONS

Feature	Specification
Brand	HKY
Model Number	a0d42a2d-900b-4d69-9074-30a7dbc7d833
Input Voltage	12-24V DC (9V-32V Max)
Output Voltage	24V
Output Current	3.75A - 4.16A
Wattage	90W - 100W Max

Connector Type	Barrel Connector (for CPAP), Cigarette Lighter Plug (for vehicle)
Cable Length	9-11 Feet (approx. 2.7-3.3 meters)
Safety Certifications	CE, FCC, RoHS
Material	Polycarbonate (PC), Flame-resistant (UL94-V1)
Included Components	Power cable

8. MAINTENANCE

To ensure the longevity and optimal performance of your HKY DC Converter, follow these simple maintenance guidelines:

- **Cleaning:** Wipe the converter and cables with a soft, dry cloth. Do not use liquid cleaners or abrasive materials.
- **Storage:** When not in use, store the converter in a cool, dry place away from direct sunlight and extreme temperatures. Avoid tightly coiling the cable to prevent damage.
- **Inspection:** Periodically check the cables and connectors for any signs of wear, fraying, or damage. If any damage is observed, discontinue use and contact customer support.
- **Fuse Replacement:** If the converter stops working, check the 15A ceramic fuse in the cigarette lighter plug. Replace it with a new 15A (6x30mm) ceramic fuse if it is blown.

9. TROUBLESHOOTING

If you encounter issues with your HKY DC Converter, refer to the following troubleshooting tips:

- **No Power to CPAP Machine:**
 - Ensure both the cigarette lighter plug and the CPAP connector are fully and securely inserted.
 - Check the vehicle's accessory socket or portable power station for power. Test with another device if possible.
 - Inspect the converter's cable for any visible damage.
 - Check and replace the 15A ceramic fuse in the cigarette lighter plug if it is blown.
- **Intermittent Power:**
 - Ensure connections are tight and not loose.
 - Verify the power source (vehicle or power station) is providing stable voltage.
- **Converter Overheating:**
 - Ensure the converter is placed in an area with adequate ventilation and not covered.
 - Confirm that your CPAP machine is compatible and not drawing excessive power.

If the problem persists after attempting these troubleshooting steps, please contact HKY customer support for assistance.

10. WARRANTY AND SUPPORT

HKY provides a **3-year warranty** for this product, ensuring quality and reliability. We are committed to providing superior quality products and excellent customer service.

If you have any quality problems, suggestions for improvement, or require technical support, please do not hesitate to contact our customer service team. We aim to respond to all inquiries within 24 hours.

Your satisfaction is our priority.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question