

KFD MANGO120S-24CB-ING

KFD DC Adapter Instruction Manual

Model: MANGO120S-24CB-ING

1. INTRODUCTION

This instruction manual provides essential information for the safe and proper use of your KFD 12V-24V DC Adapter. This adapter is designed to power and charge compatible portable oxygen concentrators from a vehicle's DC power outlet. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury or damage to the device:

- Ensure the adapter's voltage and current ratings match your device's requirements. This adapter provides 24V DC output.
- Do not expose the adapter to water, moisture, or extreme temperatures.
- Avoid dropping or subjecting the adapter to severe impact.
- Do not attempt to disassemble or modify the adapter. Refer servicing to qualified personnel.
- Unplug the adapter from the vehicle's power outlet when not in use or before cleaning.
- Keep out of reach of children.

Figure 2.1: The KFD DC Adapter incorporates multiple protection features for safe operation, including safeguards against overload, overcharge, short circuits, excessive current, overheating, and power fluctuations.

3. PRODUCT OVERVIEW

The KFD DC Adapter is a compact and efficient power supply designed for portable oxygen concentrators in vehicles. It features a standard car cigarette lighter plug for input and a barrel connector for output.



Figure 3.1: The KFD DC Adapter, showing the main converter unit, the car charger plug, and the output barrel connector.

4. SETUP AND CONNECTION

Follow these steps to connect your KFD DC Adapter:

1. **Verify Compatibility:** Ensure your oxygen concentrator requires a 24V DC input and has a compatible barrel connector. This adapter is specifically designed for Inogen Rove 6, Inogen One G5, and Oxygo Next models.
2. **Vehicle Power Outlet:** Insert the car charger plug firmly into your vehicle's 12V-24V DC power outlet (cigarette lighter socket).
3. **Connect to Device:** Connect the barrel connector end of the adapter to the DC input port of your portable oxygen concentrator.
4. **Power On:** Once connected, your oxygen concentrator should begin to receive power or charge its battery, depending on its operational status.



Figure 4.1: The car charger plug features a non-slip shrapnel design for a secure connection in vehicle power outlets.

5. OPERATING INSTRUCTIONS

Once connected, the KFD DC Adapter will provide continuous power to your compatible oxygen concentrator. It is designed for use in various vehicles, including cars, trucks, and boats, supporting 12V to 24V DC input.



Figure 5.1: The adapter in use, providing power from a vehicle's DC outlet.

5.1. Compatibility

This KFD DC Adapter is compatible with the following oxygen concentrator models:

- Inogen Rove 6 Oxygen Concentrator IO-501
- Inogen One G5 Oxygen Concentrator (Models: BA-501, IO-500, IO-500, 10-500, BA-503, BA503, BA-500, BA-516, BA501, BA500, BA516)
- Oxygo Next Portable Oxygen Concentrator (POC) Model: 1400-3000, SKU Part #: 1400-1050

Important Note: This adapter is **NOT** compatible with Inogen One G2, G3, G4 Oxygen Concentrators (which require 19V versions) or Inogen One G2, G3, G4, G5 External Battery Chargers.



Figure 5.2: Visual representation of compatible oxygen concentrators and an example of an incompatible external battery charger.

6. MAINTENANCE

To ensure optimal performance and longevity of your KFD DC Adapter:

- **Cleaning:** Use a dry, soft cloth to clean the adapter. Do not use liquid cleaners or solvents.
- **Storage:** Store the adapter in a cool, dry place when not in use. Avoid wrapping the cable too tightly.
- **Fuse Replacement:** The car charger plug contains a replaceable fuse for protection. If the adapter stops working, the fuse may need replacement.

6.1. Fuse Replacement Procedure

To replace the fuse in the car charger plug:

1. Unplug the adapter from the vehicle's power outlet.
2. Rotate the tip of the car charger plug counter-clockwise to unscrew it.
3. Carefully remove the old fuse and replace it with a new fuse of the same rating (e.g., 5A).
4. Screw the tip back on clockwise until secure.

Extremely Durable And Easy To Repair, As Easy As Changing a Battery.



Figure 6.1: Instructions for replacing the fuse within the car charger plug.

7. TROUBLESHOOTING

If you encounter issues with your KFD DC Adapter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Adapter not providing power	Loose connection Blown fuse Vehicle power outlet issue Incompatible device	Ensure all connections are secure. Check and replace the fuse (refer to Section 6.1). Test the vehicle power outlet with another device. Verify device compatibility (refer to Section 5.1).
Device not charging/powering efficiently	High power demand from device Low vehicle voltage	Ensure the concentrator is not operating at maximum settings if battery charging is slow. Check vehicle battery health.

Problem	Possible Cause	Solution
Adapter feels warm during use	Normal operation Overload	A slight warmth is normal. If it's excessively hot, disconnect immediately and check for compatibility or device malfunction.

8. SPECIFICATIONS

Key technical specifications for the KFD DC Adapter:

- **Input:** DC 12V-24V (9-32V DC Max)
- **Output:** 24V DC, 5A, 120W Max
- **Connector Type:** Barrel Connector
- **Total Cable Length:** 2.6 meters (approximately 8.5 feet)
- **Protection Features:** Over Voltage Protection (OVP), Over Current Protection (OCP), Short Circuit Protection (SCP)
- **Certifications:** CE, FCC, RoHS
- **Dimensions (Converter Unit):** Approximately 90mm x 36mm x 26mm (3.54in x 1.42in x 1.02in)
- **Weight:** Approximately 10.2 ounces

KFD Car DC Vehicle Adapter

DC Input: 12-24V DC 12A MAX

DC Output: 24V5A 120.0W Max

(Compatible with Inogen One G5 BA-501

MANGO120S-24CB-ING Oxygen Concentrator

IO-500 BA-503 BA503 BA-500 BA-516 BA501

BA500 BA516)



Figure 8.1: Product label displaying electrical specifications and certifications.

Compact and Environment-friendly Design

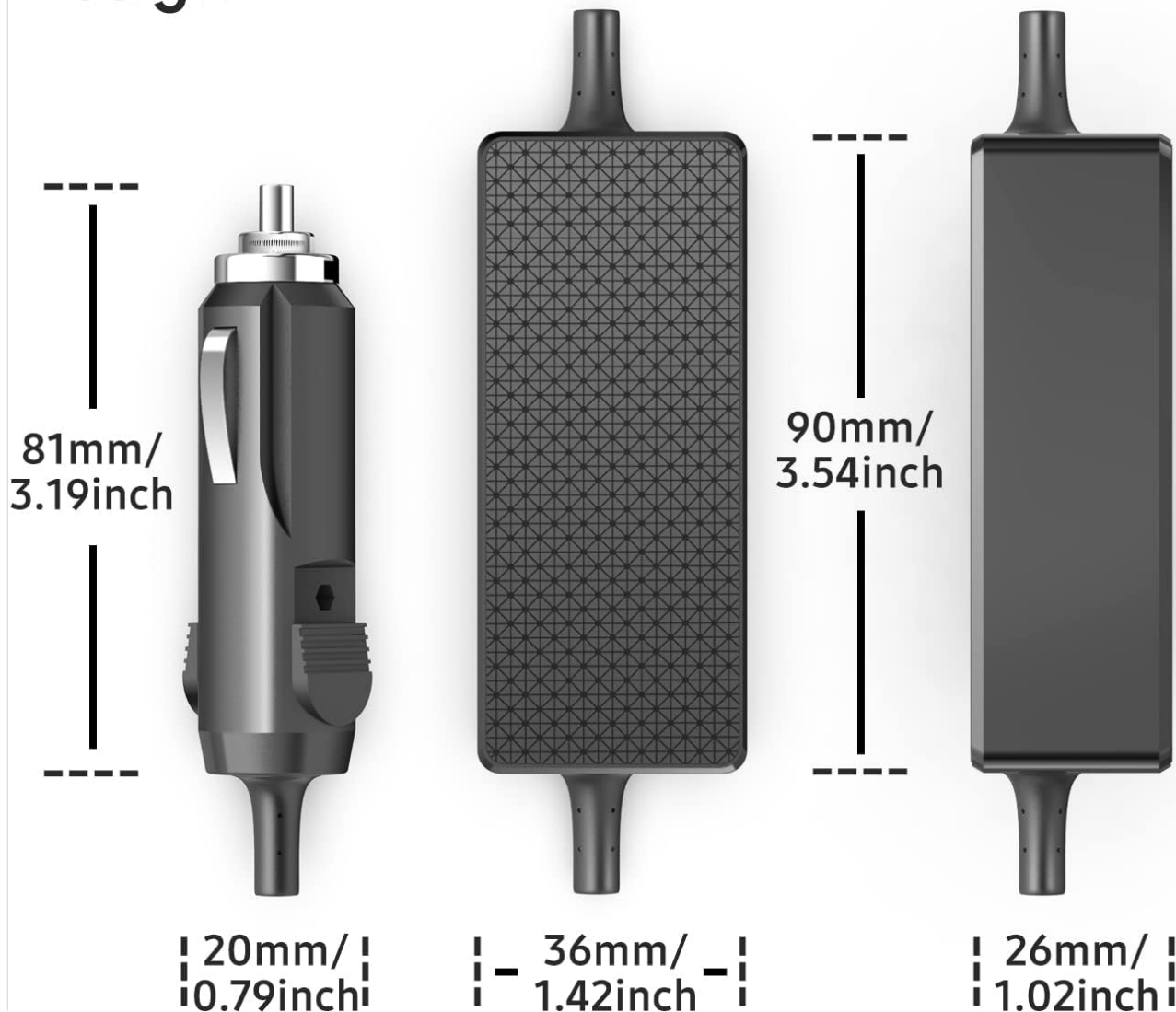


Figure 8.2: Physical dimensions of the KFD DC Adapter components.


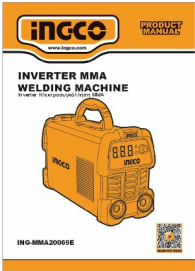




9. WARRANTY AND SUPPORT

KFD products are certified and come with a warranty to ensure customer satisfaction.

- **Warranty:** 30 Days Free Exchange / 36 Months Warranty.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please contact KFD customer service through the retailer where the product was purchased.



Related Documents - MANGO120S-24CB-ING

	<p>GE Lighting PC93130419 ING Industrial Pendant Fixture Installation Guide</p> <p>Detailed installation guide for the GE Lighting PC93130419 ING Industrial Pendant Fixture. Includes product specifications, tools required, package contents, and step-by-step installation instructions for safe and proper mounting.</p>
	<p>INGCO Inverter MMA Welding Machine ING-MMA20069E - Οδηγίες Χρήσης & Ασφάλειας</p> <p>Οδηγίες χρήσης, ασφάλειας και τεχνικές προδιαγραφές για την μηχανή συγκόλλησης Inverter MMA της INGCO, μοντέλο ING-MMA20069E.</p>
	<p>Инструкция по эксплуатации кварцевых часов-хронографов Orient TV (KFC), TW (KFD)</p> <p>Полное руководство по эксплуатации кварцевых часов-хронографов Orient моделей TV (KFC) и TW (KFD). Содержит информацию о мерах предосторожности, водонепроницаемости, батарее, технических характеристиках, функциях и уходе.</p>
	<p>ORIENT Кварцевые часы-хронограф TV (KFC), TW (KFD) - Инструкция по эксплуатации</p> <p>Полное руководство пользователя для кварцевых часов-хронографов ORIENT моделей TV (KFC) и TW (KFD). Содержит инструкции по эксплуатации, уходу, водонепроницаемости, технические характеристики и функции.</p>
	<p>Patriot Gas Restaurant Ranges: Installation and Operation Manual</p> <p>Comprehensive installation, operation, and maintenance manual for Patriot Gas Restaurant Ranges, covering models PT-R24, PT-R36, PT-R60, and their variants. Includes safety guidelines, installation procedures, operational controls, troubleshooting, gas conversion instructions, and warranty information.</p>
	<p>Product Safety and Usage Instructions - Air-Circle 13506329</p> <p>Essential safety warnings and usage guidelines for the Air-Circle product (Model 13506329) from Dipl. Ing. Özpolat Kunststoffzeugnisse GmbH. Read before use.</p>