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Kircuit Kircuit 12V Adapter

Kircuit 12V Adapter Power Converter User Manual

Model: Kircuit 12V Adapter (Compatible with Dometic CFX-28US)

1. Product Overview

The Kircuit 12V Adapter Power Converter is designed to provide reliable power to your Dometic CFX-28US Portable Electric Cooler Refrigerator/Freezer. This adapter ensures efficient and safe operation of your compatible device, featuring built-in protections against various electrical issues.



Figure 1.1: The Kircuit 12V Adapter Power Converter. This image shows the adapter with its DC car input plug on one end and the proprietary output connector on the other, connected by a black cable.

2. Setup and Installation

Follow these steps to properly set up and connect your Kircuit 12V Adapter Power Converter:

1. **Identify Components:** Ensure you have the Kircuit 12V Adapter (1 x Charging Adapter) and your Dometic CFX-28US Portable Electric Cooler.
2. **Connect to Cooler:** Locate the power input port on your Dometic CFX-28US cooler. Insert the proprietary output connector of the Kircuit adapter firmly into this port.
3. **Connect to Power Source:** Insert the DC car input plug of the adapter into a 12V-24V DC power outlet (e.g.,

a car's cigarette lighter socket). Ensure a secure connection.

4. **Verify Connection:** Once connected, your Dometic cooler should receive power. Refer to your cooler's manual for specific power indicator lights or startup procedures.

3. Operating Instructions

The Kircuit 12V Adapter is designed for straightforward operation. Once connected, it provides continuous power to your compatible device.

- **Automatic Operation:** The adapter automatically converts the input DC voltage (12-24V) to the required output for your Dometic cooler.
- **Safety Features:** The adapter incorporates a Dynamic IC, Charger IC, and Power fuse for rapid charging and protection against overcharge. These built-in features ensure safe and stable power delivery.

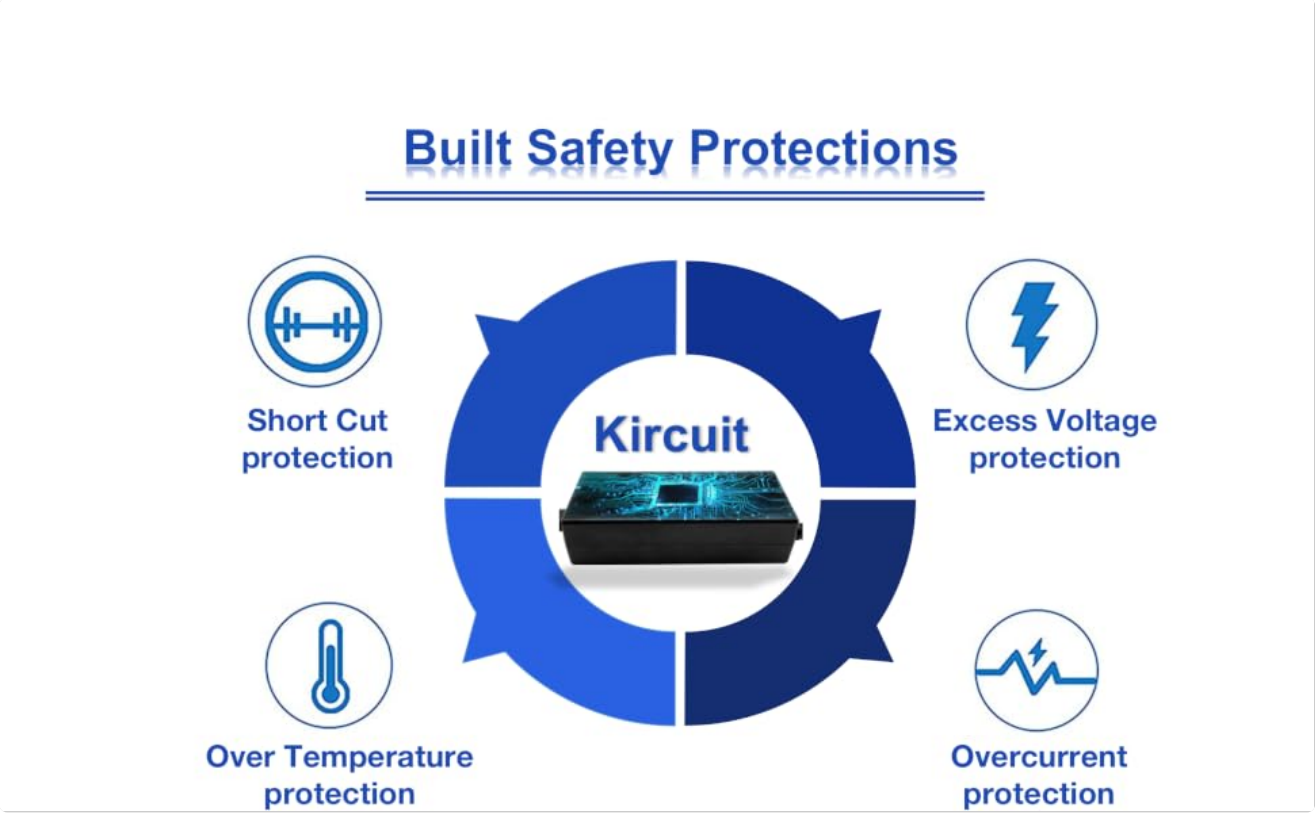


Figure 3.1: Diagram illustrating the built-in safety protections of Kircuit adapters. These include Short Circuit protection, Excess Voltage protection, Over Temperature protection, and Overcurrent protection, ensuring safe operation.

4. Maintenance and Care

To ensure the longevity and optimal performance of your Kircuit 12V Adapter, follow these maintenance guidelines:

- **Keep Clean:** Regularly wipe the adapter and its cables with a dry, soft cloth to remove dust and debris. Avoid using liquid cleaners.
- **Proper Storage:** When not in use, store the adapter in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Care:** Avoid sharp bends, kinks, or excessive pulling on the cable. Do not place heavy objects on the cable. The cable is designed for durability with thick insulation and abrasion resistance.
- **Inspect Connections:** Periodically check the connectors for any signs of wear, corrosion, or damage. Ensure they are clean and free of obstructions before connecting.

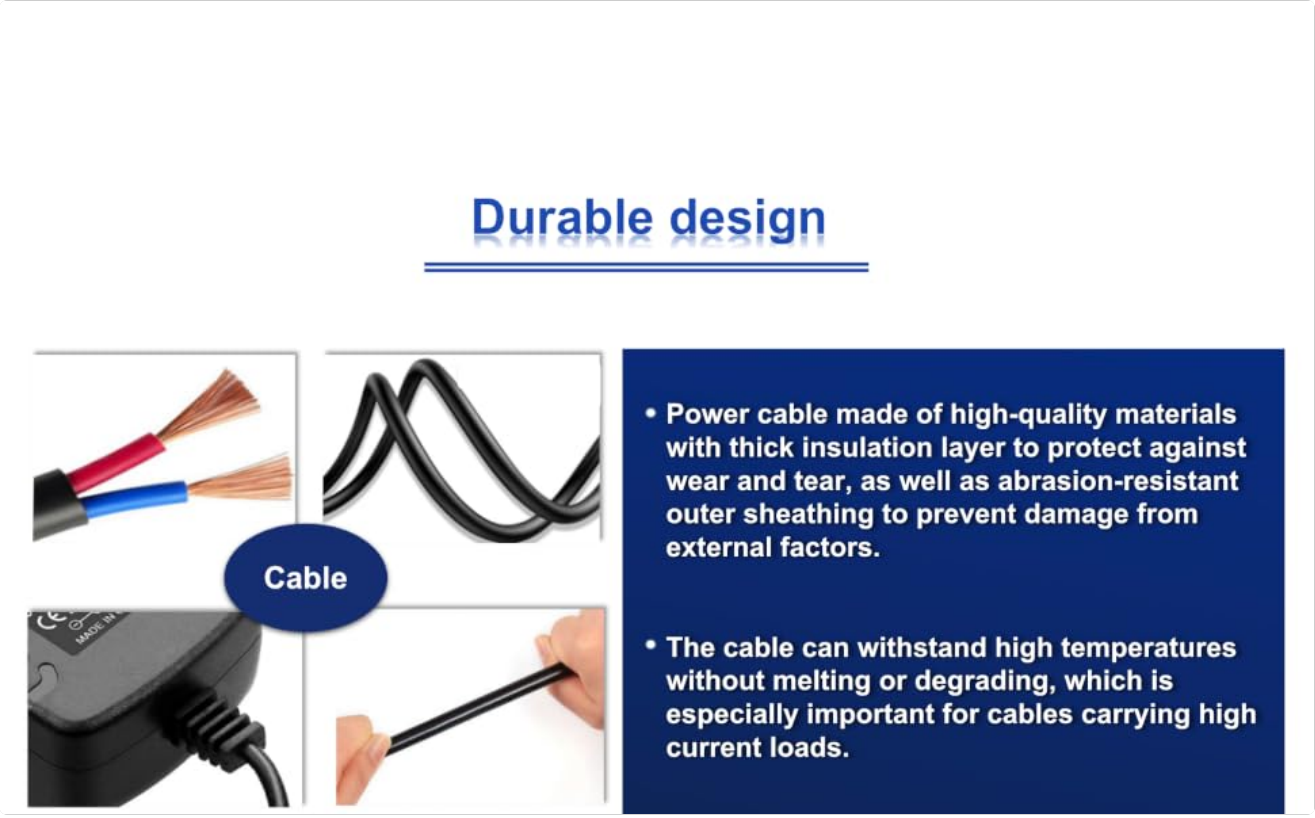


Figure 4.1: Illustration of the durable design of the power cable. It highlights the high-quality materials with thick insulation for protection against wear and tear, and its ability to withstand high temperatures.

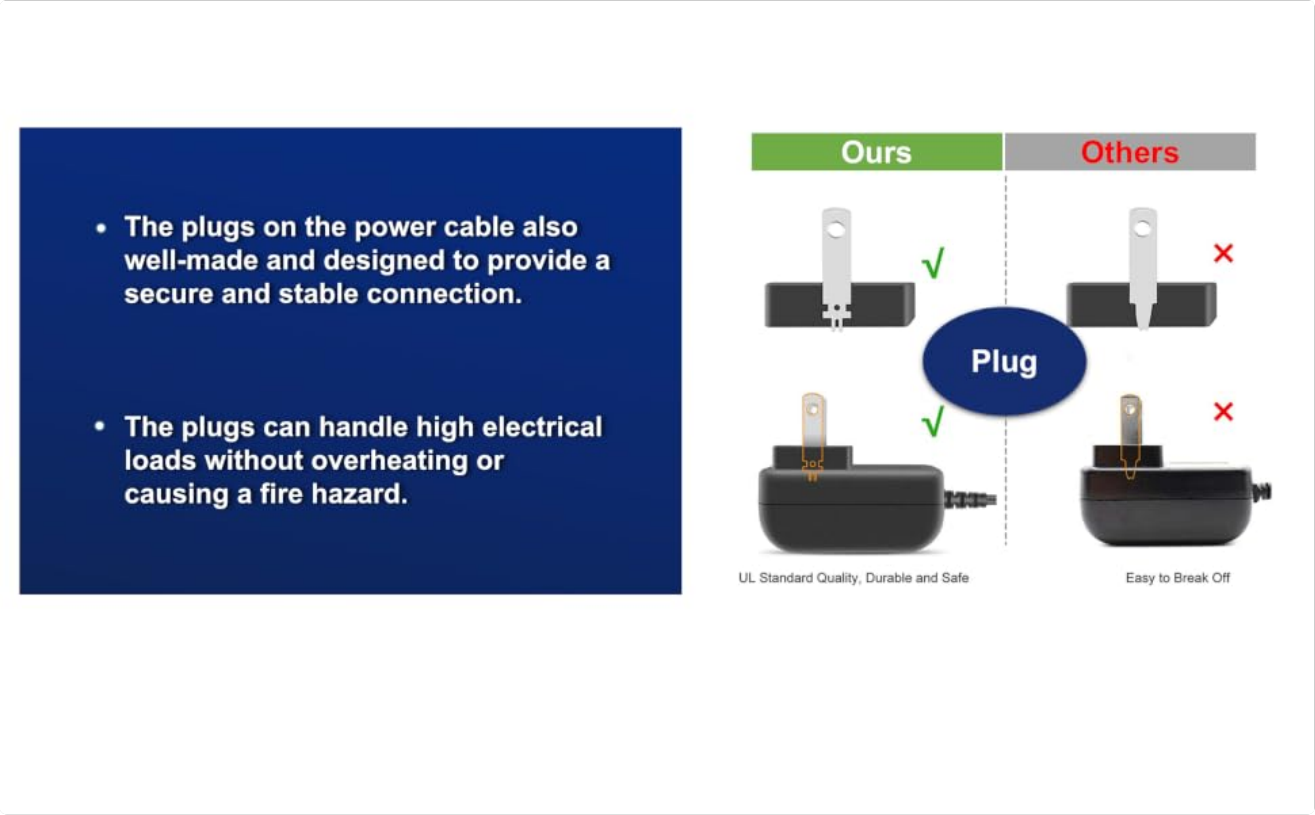


Figure 4.2: Comparison showing the secure and stable design of Kircuit plugs versus others. Kircuit plugs are designed to handle electrical loads without overheating, reducing fire hazards.

5. Troubleshooting

If you encounter issues with your Kircuit 12V Adapter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power to cooler	• Loose connection • Faulty power outlet • Damaged adapter cable/plug • Cooler issue	• Ensure all connections are secure. • Test the power outlet with another device. • Inspect the adapter for visible damage. If damaged, discontinue use. • Refer to your Dometic cooler's manual for troubleshooting its power issues.
Adapter feels hot	• Normal operation (slight warmth) • Overload or ventilation issue (excessive heat)	• A slight warmth is normal during operation. • Ensure the adapter is not covered and has adequate ventilation. • If excessively hot, disconnect immediately and contact support.
Intermittent power	• Loose connection • Unstable power source	• Check and secure all connections. • Ensure the vehicle's power outlet is stable.

If the problem persists after trying these solutions, please contact Kircuit customer support.

6. Specifications

Key technical specifications for the Kircuit 12V Adapter Power Converter:

- **Brand:** Kircuit
- **Input Voltage:** 12-24V DC
- **Output:** DC (Specific voltage/amperage not detailed in input, but implied to be compatible with Dometic CFX-28US)
- **Wattage:** 120 watts
- **Compatible Devices:** Dometic CFX-28US Portable Electric Cooler Refrigerator/Freezer
- **Included Components:** 1 x Charging Adapter
- **Special Feature:** Portable
- **Item Weight:** 8 ounces
- **Connectivity Technology:** Proprietary
- **Connector Type:** Proprietary

7. Warranty and Support

Kircuit stands behind the quality of its products. For support and warranty information, please refer to the following:

- **Return Policy:** This product is eligible for a return within 30 days of receipt, subject to the seller's return policy. Please refer to your purchase details for specific return instructions.
- **Customer Support:** For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact the seller directly through the platform where the purchase was made.
- **Product Quality:** Kircuit adapters undergo a strong quality control process to ensure products meet high standards of safety and performance.

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