

BougeRV CRD2 V2.0 49L

BougeRV CRD2 V2.0 49L Portable Refrigerator with 240Wh Battery

User Manual

1. INTRODUCTION

Thank you for choosing the BougeRV CRD2 V2.0 49L Portable Refrigerator. This advanced compressor refrigerator is designed for versatile use, offering dual-zone cooling, a powerful 240Wh battery for extended autonomy, and smart app control. It is ideal for camping, road trips, and other outdoor adventures. Please read this manual thoroughly before operation to ensure safe and efficient use of your appliance.

2. SAFETY INSTRUCTIONS

- **Read All Instructions:** Before operating the refrigerator, carefully read and understand all instructions in this manual.
- **Power Source:** Ensure the power source matches the voltage specified on the appliance. Use only the provided AC adapter and DC cable.
- **Ventilation:** Do not block the ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Water Exposure:** While the unit has an IPX4 rating for splash resistance, do not immerse it in water or expose it to heavy rain. Keep electrical connections dry.
- **Placement:** Place the refrigerator on a stable, level surface. Avoid direct sunlight or heat sources.
- **Children:** Keep the appliance out of reach of children.
- **Maintenance:** Do not attempt to repair or modify the unit yourself. Refer all servicing to qualified personnel.
- **Battery Safety:** Handle the 240Wh battery according to its specific safety guidelines. Do not expose it to extreme temperatures or physical damage.

3. PACKAGE CONTENTS

Verify that all items are included in your package:

- 1 x Portable Refrigerator
- 1 x 240Wh Battery
- 2 x Baskets
- 1 x DC Cable (12V/24V)
- 1 x AC Adapter (100-240V)
- 1 x User Manual



Figure 3.1: Package Contents

4. PRODUCT OVERVIEW

The BougeRV CRD2 V2.0 49L Portable Refrigerator is engineered for convenience and performance, featuring:

- **Dual Zone & Dual Door:** Two independently controllable zones (-20°C to 20°C) with separate doors to prevent odor transfer and temperature fluctuations.
- **Integrated 240Wh Battery:** Provides up to 18 hours of autonomous operation, ensuring freshness without external power.
- **Fast Compressor Cooling:** Cools from 25°C to 0°C in approximately 15 minutes.
- **IPX4 Water Resistance:** Protects against splashing water, suitable for outdoor use.
- **Mobile Design:** Equipped with all-terrain wheels and a telescopic handle for easy transport.
- **Quiet Operation:** Operates at a noise level of ≤ 35 dB.
- **Smart App Control:** Manage settings, monitor temperature, and switch modes remotely via the BougeRV app.
- **Battery Protection System:** 3-level system automatically cuts power if vehicle battery voltage is low.
- **Reversible Door:** Adjustable door opening direction for flexible placement.
- **USB Ports:** For charging small electronic devices.

Enfriamiento Preciso de Doble Zona

Control Doble Independiente: -20°C a 20°C.

Zona Izquierda

Congelador

Nevera

Apagado

Zona Derecha

Congelador

Nevera

Apagado



Figure 4.1: Dual Zone Functionality



Enfriamiento con Bateria LiFePO4

HASTA 18 HORAS

*Condiciones de prueba: Sin carga, sin preenfriamiento, temperatura ambiente de 25 °C, temperatura objetivo de 0 °C en modo ECO.

*Bateria LiFePO4 240Wh BougeRV

Figure 4.2: 240Wh Battery Autonomy

Muévete a Cualquier Lugar con Facilidad

Cuenta con un mango de aluminio retráctil y dos ruedas resistentes



Mango de Aluminio Retráctil

Mango de Transporte de Aluminio

Ruedas Resistentes

Figure 4.3: Easy Mobility with Wheels and Handle



Figure 4.4: IPX4 Water Resistance

5. SETUP

1. **Unpack:** Carefully remove the refrigerator and all accessories from the packaging.
2. **Initial Cleaning:** Wipe the interior and exterior with a damp cloth before first use.
3. **Battery Installation:** Insert the 240Wh battery into its designated compartment. Ensure it is securely connected.
4. **Power Connection:**
 - **AC Power (Home/Wall Outlet):** Connect the AC adapter to the refrigerator and then to a 100-240V wall outlet.
 - **DC Power (Vehicle):** Connect the DC cable to the refrigerator and then to your vehicle's 12V or 24V power outlet.
 - **Solar Power (Optional):** If using a compatible solar panel (sold separately), connect it to the refrigerator's input port.
5. **Allow to Settle:** After transport, allow the refrigerator to stand upright for at least 6 hours before powering it on to allow the compressor lubricant to settle.

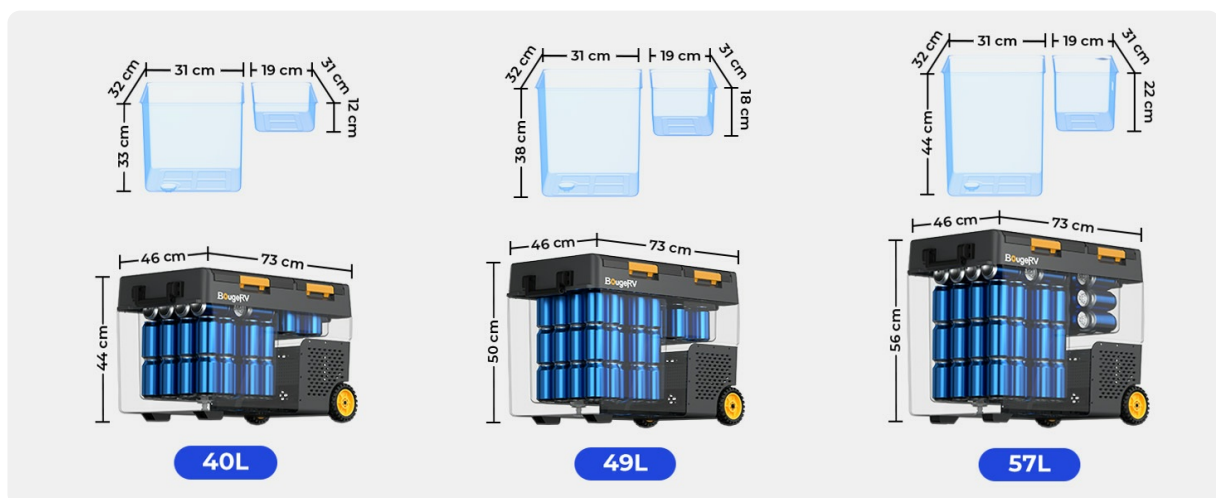


Figure 5.1: Multiple Power Options

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

Press and hold the power button on the control panel to turn the refrigerator on or off. The LCD display will illuminate upon startup.

6.2 Temperature Control (Dual Zone)

The refrigerator features two independent cooling zones. Use the control panel or the mobile app to set the desired temperature for each zone individually. Temperatures can be set between -20°C and 20°C.

- **Zone Selection:** Select the left or right zone on the control panel or app.
- **Temperature Adjustment:** Use the '+' and '-' buttons to adjust the temperature.
- **Operating Modes:** Choose from 4 modes: Freeze/Refrigerate, Refrigerate/Freeze, 2x Freeze, or 2x Refrigerate. You can also turn off one zone if not needed.

6.3 App Control

Download the BougeRV app to control your refrigerator remotely via Bluetooth (up to 10 meters). The app allows you to:

- Monitor current temperatures of both zones.
- Adjust target temperatures for each zone.
- Switch between ECO and MAX modes.
- Turn the unit on or off.



Figure 6.1: Smart App Control

6.4 Power Modes (ECO/MAX)

Select the appropriate power mode based on your needs:

- **ECO Mode (35W):** For energy saving, suitable for maintaining temperature over longer periods.
- **MAX Mode (60W):** For rapid cooling, ideal when you need to reach target temperatures quickly.



Figure 6.2: ECO and MAX Power Modes

6.5 Battery Usage

The integrated 240Wh battery provides power when external sources are unavailable. The refrigerator features a 3-level battery protection system to prevent your vehicle's battery from draining. Monitor the battery level via the LCD display or the mobile app.

7. MAINTENANCE

1. **Cleaning:** Regularly clean the interior and exterior of the refrigerator with a soft cloth and mild detergent. Do not use abrasive cleaners or solvents.
2. **Drainage System:** The unit includes an easy drainage system for convenient cleaning. Open the drain plug to remove any accumulated water.
3. **Ventilation:** Keep the ventilation grilles clear of dust and debris to ensure efficient cooling.
4. **Storage:** When not in use for extended periods, ensure the refrigerator is clean and dry. Store it in a cool, dry place with the lid slightly ajar to prevent odors.



Figure 7.1: Easy Drainage System

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Refrigerator not cooling	No power, incorrect temperature setting, blocked vents.	Check power connection, verify temperature settings, ensure vents are clear.
Unit not turning on	Power cable loose, battery drained, faulty power source.	Check all power connections, charge battery, try a different power outlet.
App not connecting	Bluetooth off, unit too far, app not updated.	Ensure Bluetooth is enabled, move closer to the unit, update the app.
Excessive noise	Unit not level, fan obstruction.	Place on a level surface, check for any obstructions around the fan.

If the problem persists after attempting these solutions, please contact BougeRV customer support.

9. SPECIFICATIONS

Feature	Specification
Model Number	CRD205003B
Capacity	49 Liters
Temperature Range	-20°C to 20°C
Battery Capacity	240Wh
Power Input	12V/24V DC, 100-240V AC
ECO Mode Power	35W
MAX Mode Power	60W
Noise Level	≤35 dB
Water Resistance	IPX4
Product Dimensions	46.1 x 72.9 x 49.8 cm
Product Weight	23.4 kg

Ideal para Almacenamiento de Grandes Cantidades con Capacidad de **49L**



Figure 9.1: 49L Capacity Example

10. WARRANTY AND SUPPORT

Your BougeRV CRD2 V2.0 49L Portable Refrigerator comes with a **2-year technical support** warranty. For any product-related questions, technical assistance, or warranty claims, please contact BougeRV customer support. Our efficient and friendly technical support team is ready to assist you.

Please retain your proof of purchase for warranty purposes.