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› ACOPOWER LiONCooler V28 Mini Portable Refrigerator User Manual

ACOPOWER HY-V28Z

ACOPOWER LiONCooler V28 Mini Portable Refrigerator

MODEL: HY-V28Z USER MANUAL

1. Introduction

Thank you for choosing the ACOPOWER LiONCooler V28 Mini Portable Refrigerator. This versatile appliance functions as both a refrigerator and a freezer, designed for portability and convenience in various outdoor and travel scenarios. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure optimal performance of your device.

2. Safety Instructions

- Ensure adequate ventilation around the unit. Do not block air vents.
- Use only the specified power adapters (AC, DC, or solar) provided or approved by ACOPOWER.
- Avoid operating the unit in wet conditions or near flammable materials.
- Do not immerse the unit in water. Clean with a damp cloth.
- Keep out of reach of children.
- If the unit malfunctions, disconnect power immediately and contact customer support.

3. Product Overview

The ACOPOWER LiONCooler V28 is a compressor-based portable refrigerator/freezer featuring a robust design for efficient cooling. Key features include:

- **Dual-Functionality:** Operates as a refrigerator (0°C to 10°C / 32°F to 50°F) or freezer (-20°C to 0°C / -4°F to 32°F).
- **Digital Control Panel:** Intuitive interface for temperature adjustment and mode selection.
- **App Control:** Bluetooth connectivity for remote control via a smartphone application.
- **Multiple Power Options:** Compatible with 12V DC (car), 120V AC (home), and optional solar panel charging.
- **Removable Lithium Battery (Sold Separately):** Provides extended cordless operation.

- **Dual-Opening Lid:** Convenient access from either side, or fully removable for cleaning.
- **USB Charging Port:** Allows charging of small electronic devices.



The ACOPower LiONCooler V28 features a robust design with a digital control panel, dual-opening lid for easy access, and integrated USB charging capabilities. It is designed for portability with durable construction.



The spacious interior of the LiONCooler V28 can accommodate numerous items, including up to 42 x 330ml bottles, 22 x 550ml bottles, 8 x 750ml bottles, or 5 x 2L bottles, making it suitable for diverse storage needs.

4. Setup

1. **Unpacking:** Carefully remove the refrigerator from its packaging. Inspect for any damage.
2. **Initial Placement:** Place the unit on a flat, stable surface, ensuring proper ventilation around all sides.
3. **Power Connection:**
 - **AC Power:** Connect the AC adapter to the unit's AC input, then plug into a standard 120V wall outlet.
 - **DC Power:** Connect the 12V DC car adapter to the unit's DC input, then plug into your vehicle's 12V cigarette lighter socket.
 - **Solar Power (Optional):** If using a solar panel (sold separately), connect it to the unit's solar input port.
4. **Battery Installation (Optional):** If you have a compatible 193Wh removable lithium battery (sold separately), insert it into the designated battery compartment until it clicks into place. Ensure the battery is charged before first use.
5. **App Download & Pairing:**
 - Download the "ACOPOWER Portable Freezer" app from your smartphone's app store.
 - Enable Bluetooth on your smartphone.
 - Open the app and follow the on-screen instructions to pair with your LiONCooler V28.



The LiONCooler V28 can be controlled via a dedicated Bluetooth app. Download the app from your device's app store and follow the on-screen instructions to pair it with your cooler for remote temperature adjustments and monitoring.

5. Operating Instructions

1. **Powering On/Off:** Press and hold the power button on the control panel for 3 seconds to turn the unit on or off.
2. **Temperature Adjustment:** Use the "+" and "-" buttons on the control panel or within the app to set the desired temperature. The temperature range is -4°F to 68°F (-20°C to 20°C).
3. **Cooling Modes:** Press the "SET" button to cycle between MAX (fast cooling) and ECO (energy-saving) modes. MAX mode is recommended for initial rapid cooling, while ECO mode is ideal for maintaining temperature and extending battery life.
4. **Battery Protection:** The unit features a 3-stage battery protection system to prevent your vehicle battery from draining. Select H (High), M (Medium), or L (Low) protection levels via the control panel or app. Higher settings offer more protection but may cause the unit to shut off sooner.
5. **App Control:** Once paired, use the app to monitor temperature, adjust settings, and switch modes remotely.

This video demonstrates the features and operation of the ACOPOWER LiONCooler, including its various power options and control panel functionality.

6. Maintenance

- **Cleaning:** Regularly clean the interior and exterior with a damp cloth and mild detergent. Do not use abrasive cleaners or harsh chemicals. Ensure the unit is dry before storage.
- **Defrosting:** If ice builds up, turn off the unit and allow the ice to melt naturally. Drain any water through the drain plug.
- **Storage:** When not in use for extended periods, ensure the unit is clean, dry, and stored in a well-ventilated area. Remove the battery if applicable.

7. Troubleshooting

| Problem | Possible Cause | Solution |
|-------------------------|--|--|
| Unit not turning on | No power, loose connection, low battery voltage | Check power cable, ensure secure connection, charge battery or connect to a stable power source. |
| Not cooling efficiently | Blocked vents, high ambient temperature, door not sealed, too much content | Clear vents, move to a cooler area, ensure lid is closed tightly, do not overfill. |
| App not connecting | Bluetooth off, app not updated, unit too far | Ensure Bluetooth is on, update app, move closer to the unit. |
| Error code displayed | Internal malfunction | Refer to the full user manual for specific error codes or contact customer support. |

8. Specifications

- **Capacity:** 29 Quarts (28 Liters)
- **Temperature Range:** -4°F to 68°F (-20°C to 20°C)
- **Power Input:** 12V/24V DC, 100-240V AC (with adapter)
- **Dimensions (L x W x H):** 22.8 x 12.2 x 16.3 inches (57.9 x 31 x 41.4 cm)
- **Item Weight:** 27.5 pounds (12.5 kg)
- **Model Number:** HY-V28Z
- **Special Features:** App Control, Portable, Compressor-based, Dual-Opening Lid, USB Charging

9. Warranty and Support

ACOPOWER offers a **1-year warranty** for the LiONCooler V28 Mini Portable Refrigerator. For any warranty claims, technical support, or further assistance, please contact ACOPOWER customer service. Our US-based support team is available to help with any questions or issues you may encounter. For more information, visit the official ACOPOWER website or refer to the contact details provided in your product packaging.

