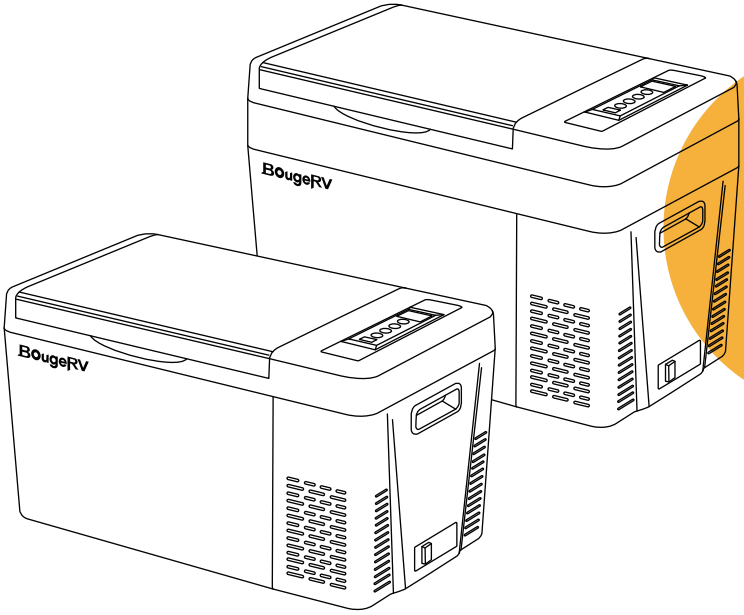
BougeRV

USER MANUAL

For 23/30 Quart Portable Refrigerator



Model：CR22/CR28

Please read this manual carefully before use and keep it properly for further reference.

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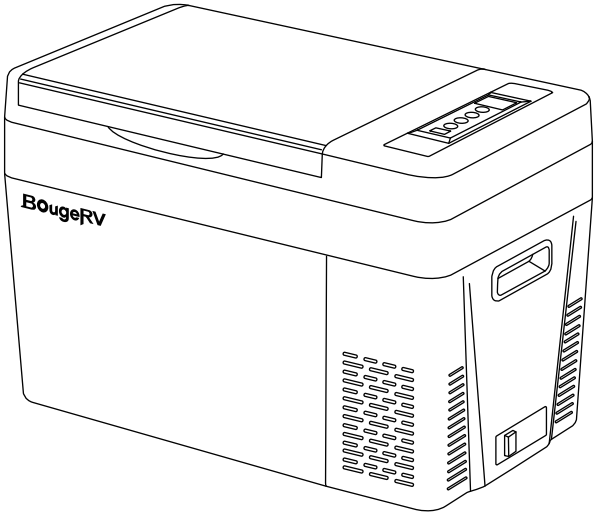
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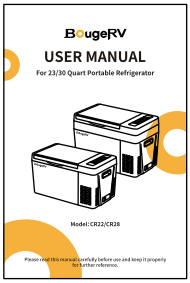
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1. Package Contents

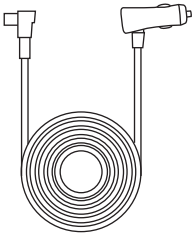
Portable Refrigerator



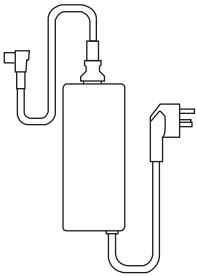
User Manual



12/24V DC
Power Cord



100~240V AC
Adapter



Extra Rubber
Feet *2



2. Safety Instructions

WARNING! Failure to comply with these warnings may cause your fridge to malfunction and may result in injury to you and other users.

• DO NOT use the fridge if it is visibly damaged.
• DO NOT block the gap in the fridge with things like pins, wire, etc.
• DO NOT expose the fridge to rain or submerge it in water.
• DO NOT place the fridge near open flames or other sources of heat, such as heaters, direct sunlight, gas stoves, etc.
• DO NOT store explosive substances in the fridge, such as spray cans with flammable propellants, etc.
• Before powering on the fridge, ensure the power cord and plug are dry,
• Before powering on, check whether the voltage specification on the energy supply matches that of the fridge.
• Before powering on for the first time, ensure that the fridge has been left flat for 12 hours. (Condition: door opens at the top.)
• Ensure that the fridge stays horizontal when it is running. The tilt angle must be less than 5° for long-term work and less than 45° for short-term work.
• The fridge must be well-ventilated to allow for heat dissipation and ensure that there is space around the cooling vents. (Back space≥7.9 in, side space≥3.9 in)
• The fridge can only be repaired by qualified personnel. Improper repairs may lead to safety hazards. If the power cable is damaged, it must be replaced by the manufacturer, customer service, or a similarly qualified person in order to prevent safety hazards.

NOTICE!

• The fridge can be used by children aged eight years and over, as well as by persons with reduced physical, sensory or mental abilities or lack of experience and knowledge. However, they must be supervised during use or they must have been adequately taught how to use the fridge safely and have been made aware of the risks involved before using it.
• Children must be supervised in the use of this fridge to ensure they are not playing with it.
• If the current output on board meets the voltage requirements of the fridge, then it can be used directly. If the current output on board does not meet the voltage requirements of the fridge and the wiring needs to be modified, this must be done by a professional electrician.
• DO NOT pull the plug out by pulling the cord.
• Disconnect the fridge or turn it off when you turn your car engine off. Otherwise, it could drain your car's battery.

CAUTION!

• Before placing food in the fridge, it is advisable to keep it in its original packaging or keep it in a suitable storage box.
• Set the right temperature for the food you are putting in the fridge. The table below shows the recommended temperatures for some common foods.

The recommended temperature for common food:

						
Drinks	Fruits	Vegetable	Delicatessen	Wine	Ice Cream	Meat
41°F/5°C	41~46°F/5~8°C	37~50 ℉/3~10 ℃	39°F/4°C	50°F/10°C	14°F/-10°C	0°F/-18°C

3. Preparing Before Use

- Open the packaging and take out all accessories. After that, allow the fridge to sit flat for 12 hours before powering up. (Condition: fridge door opens at the top)
- When using it for the first time, clean the inside and the outside of the fridge with a damp cloth and wait until it gets dry.
- Place the fridge in a suitable position according to your usage scenario (Car, Truck, RV, Camper, Van, Jeep, SUV, Boat, Home, etc.)
- Choose the correct power cord (AC adapter or DC cord) according to the power source you are using. Please read 5.1 Power Supply carefully for details.

4. Product Introduction

4.1 Product Features

Multiple Usage Scenarios: You can use this fridge in a variety of vehicles such as SUV, Truck, RV, Camper, Jeep, Van, Boat, etc. It can also be used for outdoor activities such as camping, tailgating, road trips, outdoor trips, and off-road. The fridge can also be used when at home.
Freezer or Refrigerator: With an adjustable temperature range from -8°F to 50°F, it can be used as a freezer or refrigerator.
2 Cooling Modes: MAX mode and ECO mode. MAX mode is used for fast cooling, and the rated power of it is 45W. ECO mode is used to save energy, and the rated power of it is 36W.
Energy Efficiency: No matter whether the fridge is in MAX mode or ECO mode, it consumes far less than 1kWh per day for its intelligent cycle work.

Fast Cooling with Compressor Refrigeration Technology: When set to Max mode and it's in an empty box, the fridge can cool from 77°F to 32°F in 15 minutes, and can cool from 77°F to -4°F in 50 minutes.

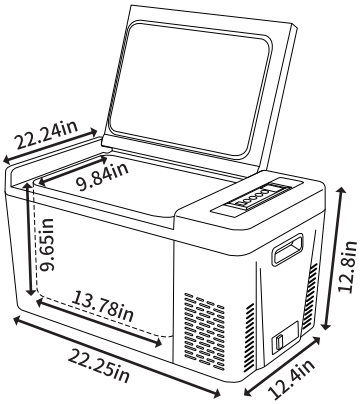
3-Level Battery Protection Function: When the car battery power drops to a certain level, the fridge will automatically cut off the power connection to ensure that the car battery will not run out.

45dB Low Noise: This fridge has a low-noise design that will not disturb you when driving or sleeping.

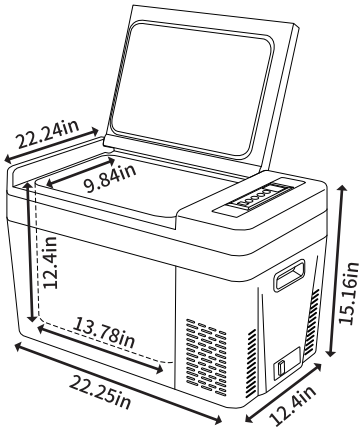
Power-Off Memory Function: When the fridge is turned on again after a power failure, the settings will remain the same as the last time it was set.

4.2 Product Size

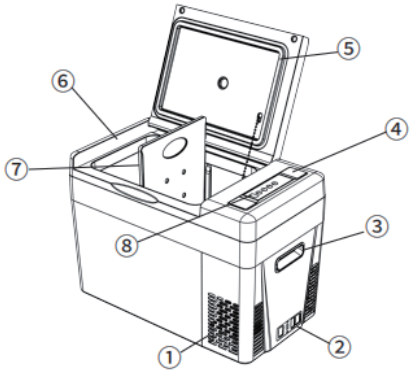
CR22



CR28



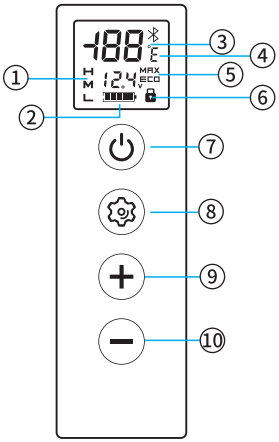
4.3 Procuct Structure



① Heat Dissipation Hole
② 12/24V Power Outlet
③ Handle
④ Digital Control Panel
⑤ Sealing Rubber Ring
⑥ Refrigerator Shell
⑦ Removable Divider (Only for the 30-Quart)
⑧ USB Port

4.4 Panel Instruction





① Battery Protection Mode
② Electricity/Voltage
③ Temperature
④ Temperature Unit
⑤ MAX/ECO Mode
⑥ Lock Icon
⑦ ON/OFF Button
⑧ Unlock/Setting Button
⑨ Increase Temperature Button
⑩ Decrease Temperature Button

5. Operation Instruction

5.1 Power Supply	① When using the fridge in a car, or truck or using it with a power station, please use the DC power cord to connect the fridge to the 12/24V power. ② When connecting the fridge to 110~240V AC power (house wall outlet or ac outlet of the power station), please use the AC adapter.
5.2 Display Screen Initialization	When the fridge is powered on, you will hear a beep sound and the display screen will light up for 1~2s, after which nothing will be displayed. At this point, the fridge is in standby mode. (**NOTE:** The fridge can't be operated until it is turned on.)
5.3 Turn On/Off	Press " ⏻ " button for 3~5 seconds to turn it on or off.
5.4 Temperature Setting	① Under the working state, press " ⊕ " button or " ⊖ " button to adjust the temperature. ② Long press the " ⊕ " or " ⊖ " button to increase or decrease the temperature in a faster form. The number will not flash during the process of adjustment. ③ After selecting a temperature, if there is no further operation on the panel within 3 seconds, the temperature display will stop flashing and save the currently set temperature. The display panel then shows the actual temperature inside the fridge and takes a period of time to reach the set temperature. ④ Temperature setting range: -8°F~50°F (-22°C~10°C)

5.5 MAX/ECO Mode Switching	① Under the working state, press " ⚙ " button one time, then the "MAX/ECO" icon will flash. Then press " ⚙ " button again to switch to MAX/ECO mode. ② If there is no further operation on the panel within 3 seconds, it will automatically save the current settings. ECO: Energy Saving Mode, 36W. MAX: Fast Cooling Mode, 45W.
5.6 Temperature Unit Switch	Under the working state, press " ⊕ " button and " ⚙ " button at the same time for 3~5 seconds to switch Fahrenheit(°F)/Celsius(°C). **NOTE:** Factory setting is °F.
5.7 Car Battery Protection Setting H/M/L	① Under the working state, press the " ⚙ " button for 3 seconds to enter the battery protection setting. Then press the " ⚙ " button to choose H/M/L. ② After selecting a level, the display panel will flash for 5 seconds, and then it will automatically save and exit the setting. ③ We recommend setting the fridge to H when it is connected to the car battery and set it to M/L when it is connected to a power station.
5.8 Panel Unlocking	① If there is no operation on the panel for 1 minute, the control panel will automatically lock and it will be unable to operate at this time. ② Please adjust the fridge settings when the panel is in the unlocked state. To unlock it, press the " ⚙ " button for 3 seconds.

6. Car Battery Protection(H/M/L) Voltage Reference

The BougeRV fridge is equipped with a battery preservation monitor. It has 3 settings to monitor your battery to prevent a full discharge. The higher level you set, the higher the cut-off voltage will be. When the vehicle battery's voltage drops to the below setting, the fridge compressor will automatically turn off.

• When set to HIGH, the battery monitor will provide maximum protection for the vehicle battery running the fridge against over/full discharge.

• When you set it to LOW, the battery monitor will allow the fridge to continually consume the car battery energy, even if the battery voltage is low and the car cannot be turned on.

Voltage		Factory default voltage protection level sets to H Mode		
		High mode	Medium Mode	Low mode
12V DC	Cut out	11.3V	10.1V	9.6V
	Cut in	12.5V	11.4V	10.9V
24V DC	Cut out	24.6V	22.3V	21.3V
	Cut in	26.0V	23.7V	22.7V
NOTE: Cut-out is the input voltage in which the fridge will turn off. Cut-in is the input voltage in which the fridge will turn on.				

• When the fridge is powered by a vehicle starter battery, High Mode is recommended.

• When the fridge is powered by an additional battery(portable power station, solar panel), High Mode is recommended.

NOTE

The battery monitor will shut off the fridge as soon as the supply voltage falls below the set level. The fridge will restart after 2 minutes once the cut-in voltage is reached.

7. Troubleshooting and Error Code Problems

If an abnormal situation cannot be resolved through the guidance, please contact professional customer service for assistance.

If you bought it from Amazon, please contact **service@bougerv.com.**
If you bought it from BougeRV Website, please contact **support@bougerv.com.**

NOTE

To better address the issue, it will be better to attach more details as follows in your email.

1. The order number(it is necessary).
2. If possible, pictures or video to show the problem.
3. Which power cord is used to connect the fridge and what is the power supply.
4. If there is an error code display on the digital panel.
5. Your shipping address and phone number for replacement.

Troubles	Causes and solutions
The Car Refrigerator Does Not Work	• Check whether the power is connected correctly or not (the plug is loose, positive and negative poles are reversed, etc.). • Check whether the refrigerator is turned on. • Check whether the cooling ventilation is normal. • Check whether the fuse is blown.
Not Cooling Sufficiently	• Check whether the fridge door is closed properly. • Check whether the door seal is damaged or deformed, resulting in unsealed. • Check whether the heat dissipation and ventilation are working normally. • Check whether the temperature setting is proper.
Abnormal Noise	• Some noises are normal. • Check whether the refrigerator is placed stably. • Check whether the refrigerator hit the wall or other items. • Check whether the internal part in the compressor compartment is loose or fell off.
Abnormal Noise	When the ambient air humidity is >75%, a slight frost will occur on the surface of the cabinet, which is a normal phenomenon.
Temperature Fluctuation	• It is normal for the temperature to fluctuate within a certain range(±9°F). • It is normal for the temperature measured by yourself to be 6°F higher than the displayed temperature. • If the temperature does not drop over time , please adjust to the lowest temperature and allow the refrigerator to take longer to cool. • Please try to touch the inner wall of the refrigerator with your hand, if you can feel the coldness obviously, it indicates that the refrigerator refrigeration is normal.

The definition of the error code on the display

Error Code	Error Type	Solutions
E1	Input voltage too low	①Scenario one: the input voltage of the adapter is too low. Solution: Adjust the battery protection level to "Medium" or "Low" level. Wait for 3-5 mins to let the refrigerator reset itself. If the fridge still does not start properly, Please use the AC power cord to run the refrigerator. ②Scenario two: Insert the refrigerator power cord into the car cigar lighter when the car doesn't start. Solution: Connect the refrigerator later after the car starts.
E2	Fan Problem	Please replace a new fan when you confirm the fan malfunction. Contact us and we will send you a new fan for replacement.
E3	Compressor Start up frequently Input voltage fault	①Scenario one: E3 appears when using the fridge in the car. Solution: Shut down the fridge for 5 minutes. If it still does not work after you restart it, then it is an E1 fault, please refer to the E1 troubleshooting and solution. ②Scenario two: E3 appears when using the fridge at home. Solution: Adjust battery protection level to Medium or Low level. If the fridge still does not start properly, Please use the AC power cord to run the refrigerator. If the solution is not helpful, please contact us.
E4	Compressor turbine speed too low	The input voltage needs to be adjusted and reconnect the refrigerator to power. If the solution is not helpful, please contact us.
E5	Controller chip overheating	You need to shut down the fridge for 5 minutes. After that, check whether it is an overheating caused by the blockage around the vent of the compressor.
E6	NTC cable disconnecting or in a short circuit	Pry out the display panel and check whether the NTC cable is disconnecting. If the solution is not helpful, please contact us.

8. Cleaning and Maintenance

■ Cleaning

• Unplug the fridge first to avoid electric shock.
• Use a wet cloth to clean the fridge and dry it.
• Do not soak the fridge in water and do not wish it directly.
• Never use abrasive products, detergents, or soaps to clean the refrigerator as these can damage the fridge.

■ Storage

If the fridge will not be in use for a long time, please store it properly.
• Turn off the power and remove the plug.
• Remove all the items stored in the fridge.
• Wipe off excess water from the fridge with a soft rag. Always make sure the inside of the refrigerator is dry before you store it.
• Place the fridge in a cool and dry place.
• Leave the lid slightly open to prevent odors from forming.

■ Defrosting

Frost may form inside the cooling device or on the evaporator, and this can reduce the cooling capacity. Defrost the fridge promptly to avoid this.
• Disconnect the power supply of the fridge.
• Take out all the items.
• Keep the lid open.
• Wipe off the defrosted water.

DO NOT use hard, sharp, or pointed objects to remove the frost or use them to help you remove the frozen items. This may cause irreparable damage to the cooling system.

9. FAQ

Q1: Is there a cover for this refrigerator?

A1: Yes, there is. You could search for bougerv 23/30 quart fridge cover on Amazon.

Q2: Does it come with a battery installed?

A2: No, this refrigerator does not come with a battery. Our batteries are sold separately.

Q3: Will it work standing on end?

A3: No, please do not run it on its side. This refrigerator contains refrigerant. If it runs on the side, the cooling efficiency will be affected and may cause malfunctions.

Q4: Can the fridge be used to sit on for extra seating?

A4: We do not recommend doing this. Because the perimeter of the refrigerator is filled with foam(for heat retention) rather than solid plastic, prolonged exposure to weight may deform it.

Q5: What's the outside temperature range this can be safely used?

A5: Temperature range: 50°F~122 °F.

Q6: Does the fridge have to be plugged in for use?

A6: Yes, it has to be plugged.

Q7: If the power is temporarily interrupted, will the unit automatically resume work when the power is restored(if nobody is there to turn it back on)?

A7: Yes, it will. This refrigerator has a power-off memory function, which means when the power is restored, the freezer will return to its previous working state.

Q8: Does the temperature fluctuate a lot?

A8: Not much, within the range of industry standards. The working mode of the refrigerator is cyclic work, that is, after it reaches the set temperature, it stops working for about 10 minutes, and the temperature rises by about 3~5℃. Then, the refrigerator will work again for about 15 minutes and the temperature will drop to the set temperature again.

Q9: How long can it continuously be run safetly?

A9: As long as the power supply is maintained, our portable refrigerators can work 24 hours/day, just like home refrigerators.

Q10: Is it normal for the refrigerator to have condensation water? Why?

A10: Yes, it is normal. Because when the air humidity is greater than 75%, there may be slight condensation on the surface of the refrigerator; the higher the humidity, the higher the probability of occurrence, which is a normal phenomenon.

Q11: Will it keep ice cream frozen?

A11: Yes. By setting the temperature below 0°F, you can keep the ice cream frozen.

Q12: Can I make ice with ice cube trays?

A12: Yes. The internal temperature of this portable refrigerator is adjustable from -8°F to 68°F. You can get ice cubes by setting the temperature below 32°F.

Q13: Can I get a replacement if my accessory is missing/broken?

A13: Sure, we provide a 2-year warranty from the date of purchase.

10. Warranty

Warranty

BougeRV Portable Car Refrigerators are covered by a 2-year warranty starting from the date of purchase on the BougeRV Amazon store or the BougeRV official website, with the following exceptions:

- Man-made damage.
- Damage caused by force majeure such as earthquake, conflagration, etc.
- Damage caused by improper use or violation of this instruction.
- Damage or malfunction caused by disassembly.

24-month Limited Warranty
Lifetime Technical Support

Customer Service

If you encounter any difficulties in using the product or have any questions about it, please feel free to contact us via:

Amazon
service@bougerv.com
+1 408 656 8402
9AM-6PM(PST) Mon-Fri
+1 699 232 7427
6PM-3AM(PST) Sun-Thur

BougeRV Website
support@bougerv.com
+1 408 656 8402
9AM-6PM(PST) Mon-Fri
+1 408 429 4149
6PM-3AM(PST) Sun-Thur

VIP Service & Extra 1-year Warranty

1. Search "QR Code" on your FB.
2. Scan the QR Code beside.
3. Join "BougeRV Car Refrigerator Club".
4. Then you become a VIP and get a 3-year warranty.

11. Specification

Model	CR28	CR22
Rated Voltage	DC: 12V/24V	
	AC: 110~240V	
Rated Power Input	ECO: Energy Saving Mode, **36 watts.**	
	MAX: Fasting Cooling Mode, **45 watts.**	
Capacity	30 Quart = 28 L = 0.99cu. ft.	23 Quart = 22 L = 0.78cu. ft.
Noise Level	⩽45dB	
Climate Class	T/ST/N/SN	
Temperature Range	-22~10°C(-8~50°F)	
Refrigerant	R-134a	

* Due to product improvement, the technical information might be different from the actual information, please refer to the rating label on the product.

■ Disposal

Place the packaging material in the appropriate recycling waste bins wherever possible.



If you wish to permanently dispose of the product, consult your local recycling center or specialty distributor for details on how to dispose of it in accordance with applicable disposal regulations.

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