

Setpower MC20

Setpower MC20 21QT Portable 12V Car Refrigerator and Freezer User Manual

Model: MC20 | Capacity: 21 Quarts

1. IMPORTANT SAFETY INFORMATION

Please read all safety instructions carefully before operating the Setpower MC20 portable refrigerator/freezer. Failure to follow these instructions may result in product damage or personal injury.

- Ensure the unit is placed on a stable, level surface. The MC20 is engineered to operate normally at angles up to 40 degrees, but optimal performance and safety are achieved on level ground.
- Always secure the refrigerator using the provided fixed ropes, especially when used in moving vehicles like SUVs, trucks, RVs, or vans, to prevent dangerous shifting during transit.
- Maintain adequate ventilation around the unit. Do not block the air vents on the sides or back of the refrigerator to ensure proper heat dissipation and efficient operation.
- Do not immerse the unit in water or expose it to excessive moisture.
- Keep the refrigerator away from direct heat sources or flammable materials.
- When connecting to a vehicle's 12V/24V DC power, utilize the 3-level battery protection system to prevent excessive battery drain. Set the protection level (High, Medium, Low) according to your vehicle's battery health and usage needs.
- If an E1 error occurs, it may indicate an improper battery protection setting or low input voltage. Adjust the battery protection level or recharge the power source.



Image: The Setpower MC20 portable refrigerator illustrating its stability with tie-down points and operational capability at a 40-degree tilt, highlighting its robust design for vehicle use.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Setpower MC20 Car Refrigerator/Freezer
- 1 x 12/24V DC Power Cord (for vehicle use)
- 1 x 100/240V AC Adapter (for home/wall outlet use)
- 4 x Fixed Ropes (for securing the unit)
- 1 x User Manual (this document)



Image: An illustration of the Setpower MC20 portable refrigerator and all its included accessories: the unit itself, DC cable, AC adapter, four fixed ropes, and the user manual.

3. SETUP AND INSTALLATION

3.1 Power Connection

The MC20 supports multiple power sources:

- **12V/24V DC:** Connect the DC power cord to your vehicle's cigarette lighter socket or a compatible 12V/24V power outlet.
- **100-240V AC:** Use the AC adapter to connect the refrigerator to a standard home wall outlet.
- **Portable Power Station/Solar Panel:** The unit can also be powered by compatible portable power stations or solar panels (sold separately) for off-grid use.

Multiple Power Supplies



Power Station

Solar Panel



110-240V

Home Outlet



12V Car

24V Truck



Image: A visual guide demonstrating the versatility of the Setpower MC20 portable refrigerator, capable of being powered by a home outlet, a 12V car socket, a 24V truck socket, a portable power station, or a solar panel.

3.2 Securing the Unit

For safe transport, especially on rough roads, use the provided fixed ropes:

1. Locate the four reinforced side points on the refrigerator.
2. Thread the fixed ropes through these points.
3. Securely fasten the ropes to anchor points in your vehicle (SUV, truck, jeep, van) to prevent movement.

Value **\$20** Fixed Ropes Included

4 holes are located on both sides of the fridge, which can be firmly fixed to the car when used with ropes.



Image: The Setpower MC20 portable refrigerator shown installed in the rear cargo area of a vehicle, demonstrating how the included fixed ropes are used to secure the unit to prevent movement during travel.

3.3 Reversible Door Installation

The lid of the MC20 can be opened from either side to suit your preference or vehicle layout:

1. Carefully detach the lid from its current hinge side.
2. Align the lid with the hinge mechanism on the opposite side of the unit.
3. Press firmly until the lid clicks securely into place.

Removable 2-Way Door

You can change the direction of the door according to your needs

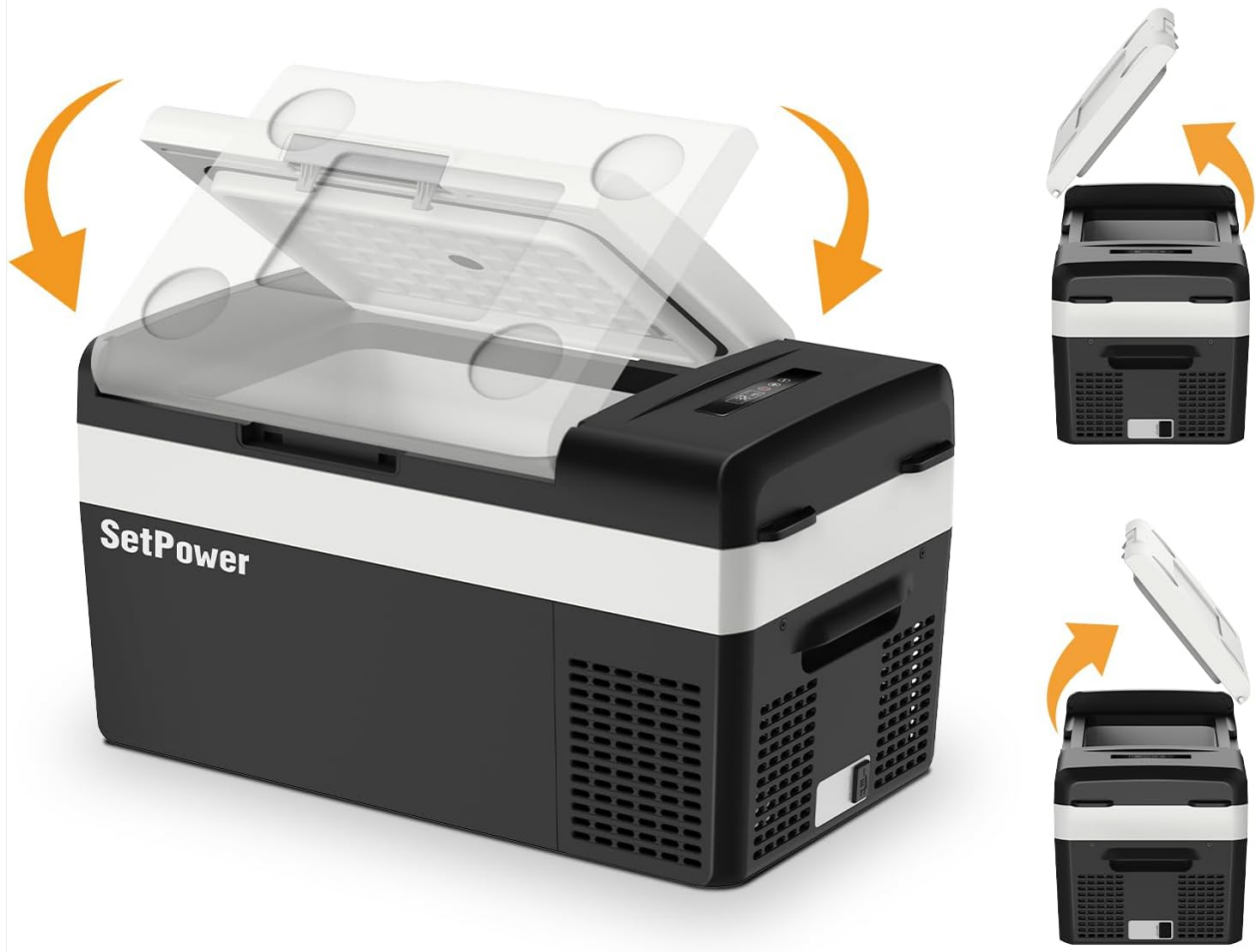


Image: A visual representation of the Setpower MC20 portable refrigerator's removable two-way door, showing how the lid can be reconfigured to open from either the left or right side for user convenience.

4. OPERATING INSTRUCTIONS

4.1 Control Panel Overview

The MC20 features an intuitive control panel with three buttons and an LED display:

- **LED Display:** Shows current temperature, voltage, and battery protection level.
- **On/Off Button:** Powers the unit on or off.
- **Temperature Increase Button (+):** Adjusts the target temperature upwards.
- **Temperature Decrease Button (-):** Adjusts the target temperature downwards.

The unit includes a memory function, automatically reverting to the last set temperature and settings upon reconnection to power.

Easy Operation

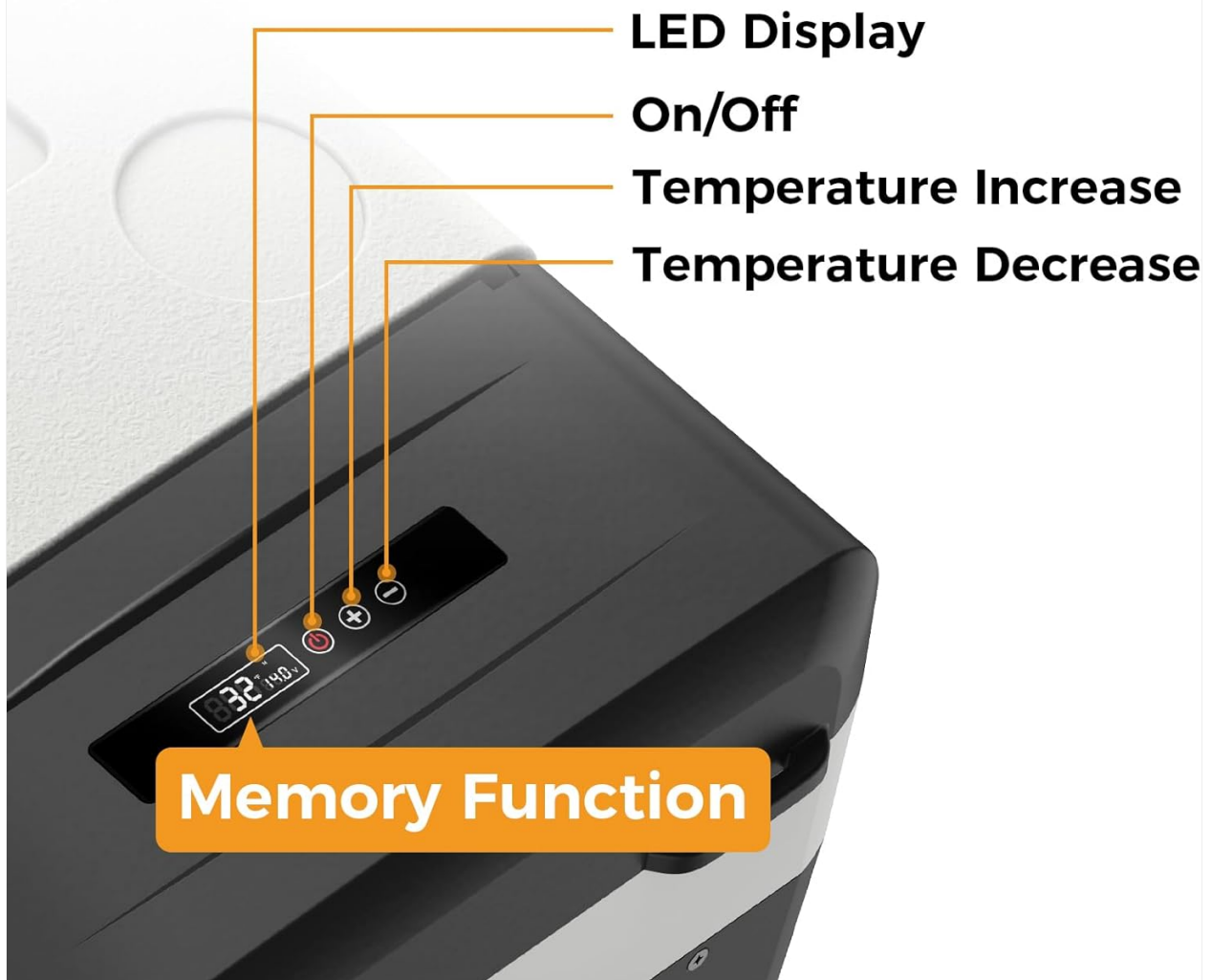


Image: A detailed view of the Setpower MC20 portable refrigerator's control panel, highlighting the LED display, power button, and temperature adjustment buttons, along with an indication of its memory function.

4.2 Temperature Settings and Cooling Performance

The MC20 can function as both a refrigerator and a freezer, with a temperature range of -4°F to 68°F (-20°C to 20°C).

- **Fast Cooling:** The unit can cool from 77°F (25°C) to 32°F (0°C) in approximately 15 minutes. It can reach its lowest temperature of -4°F (-20°C) in about one hour.
- **Refrigerator Mode:** Ideal for keeping items fresh, typically set between 32°F and 68°F (0°C to 20°C). Suitable for vegetables, fruits, beverages, and dairy products.
- **Freezer Mode:** For freezing items, typically set between -4°F and 32°F (-20°C to 0°C). Suitable for meat, shrimp, fish, and ice cream.

15 Mins Fast Cooling

Avg. power consumption is only **45w**



3-Year

Compressor Guarantee



Image: A graphic demonstrating the rapid cooling performance of the Setpower MC20 portable refrigerator, indicating it can reach 32°F (0°C) in 15 minutes and -4°F (-20°C) in 45 minutes from an ambient temperature of 77°F (25°C).



Image: The Setpower MC20 portable refrigerator displayed with examples of items it can store in both refrigerator mode (fresh produce, drinks) and freezer mode (meat, ice cream), along with their respective temperature ranges.

4.3 Battery Protection System

The MC20 is equipped with a smart 3-stage battery protection system to prevent your vehicle's battery from draining completely. You can select one of three modes:

- **High Mode:** Provides the highest level of battery protection, cutting off power at a higher voltage. Recommended for starting batteries.
- **Medium Mode:** A balanced protection level.
- **Low Mode:** Allows for longer operation before cutoff, suitable for deep cycle or auxiliary batteries.

The compressor will shut off when the measured DC voltage drops below the 'Cut Out' value for the selected mode and will restart when the voltage rises above the 'Cut In' value.

Battery Protection Voltage Levels

Voltage	High Mode	Medium Mode	Low Mode
12V DC Cut Out	11.1V	10.4V	9.6V
12V DC Cut In	12.4V	11.7V	10.9V
24V DC Cut Out	24.3V	22.8V	21.3V
24V DC Cut In	25.7V	24.2V	22.7V



Image: A visual explanation of the Setpower MC20's 3-level battery protection system, detailing the voltage thresholds for High, Medium, and Low modes for both 12V and 24V DC power sources.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Setpower MC20 refrigerator/freezer.

- **Cleaning:** Clean the interior and exterior surfaces with a damp cloth and mild detergent. Do not use abrasive cleaners or solvents. Ensure the unit is unplugged before cleaning.
- **Defrosting:** The unit features an automatic defrost system. If ice buildup occurs, manually defrost by turning off the unit and allowing the ice to melt. Drain any water through the drain plug if available.
- **Ventilation:** Periodically check that the air vents are clear of dust and debris. Use a soft brush or vacuum cleaner to gently clean the vents.
- **Storage:** When not in use for extended periods, ensure the unit is clean and dry. Store with the lid slightly ajar to prevent odors and mildew.

6. TROUBLESHOOTING

If you encounter issues with your MC20, refer to the following common problems and solutions:

- **Unit Not Turning On:**
 - Check power connections (DC or AC) to ensure they are secure.
 - Verify the power source is active and providing sufficient voltage.
 - If using DC power, check the vehicle's battery voltage. The battery protection system may have cut off power due to low voltage. Adjust the protection level or recharge the battery.
- **Not Cooling Effectively:**
 - Ensure the lid is properly closed and sealed.

- Check for obstructions around the ventilation areas.
- Verify the temperature setting on the control panel.
- Allow sufficient time for the unit to reach the desired temperature, especially when starting from a warm state. Pre-chilling items before placing them in the unit can improve efficiency.

• **E1 Error Displayed:**

- This typically indicates a low input voltage. Adjust the battery protection setting to a lower level (e.g., from High to Medium or Low) or connect to a power source with higher voltage.
- If the issue persists, consult the warranty and support section.

• **Unusual Noise:**

- The MC20 operates quietly (below 42dB). If you hear unusual or loud noises, ensure the unit is on a stable surface and not vibrating against other objects.
- Check for any loose components or debris inside the unit.

7. SPECIFICATIONS

Detailed technical specifications for the Setpower MC20 portable refrigerator/freezer:

Feature	Specification
Model	MC20
Capacity	21 Quarts
Temperature Range	-4°F to 68°F (-20°C to 20°C)
Item Weight	25 Pounds
Product Dimensions (L x W x H)	24 x 13 x 13 inches
Average Power Consumption	45 Watts
Noise Level	<42dB
Refrigerant	R-600A
Defrost System	Automatic
Power Input	12/24V DC, 100/240V AC
Special Features	Anti-Shake, Compact, Cup holder, Fixed Design, Low Noise

21QT
Capacity

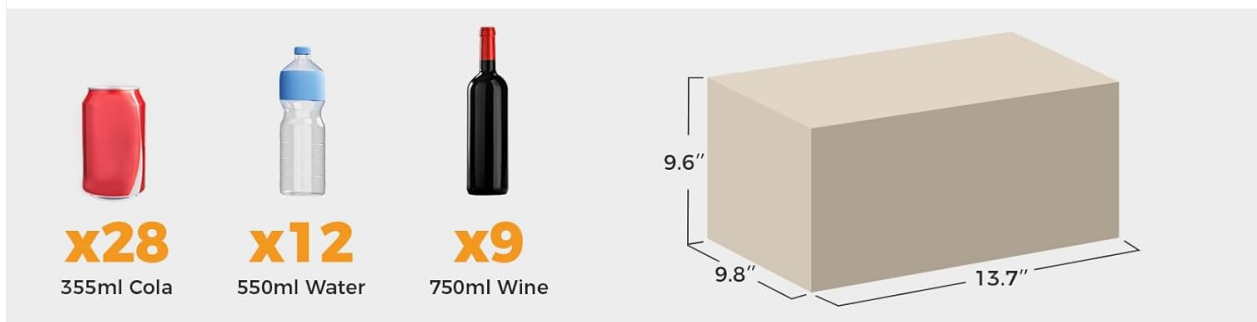
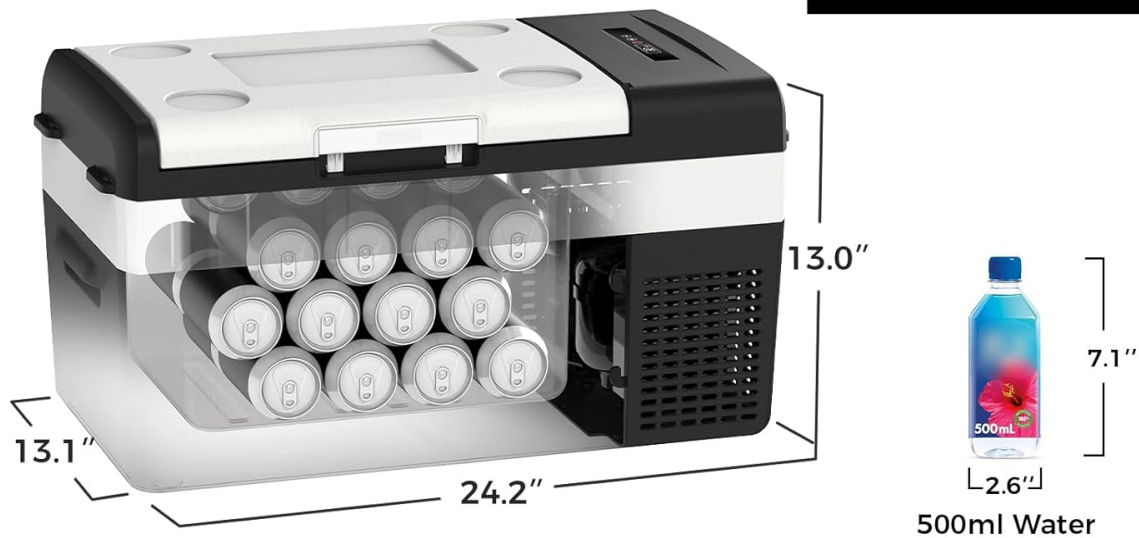






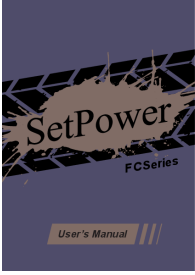

Image: A transparent view of the Setpower MC20 portable refrigerator, illustrating its 21-quart capacity and internal storage space, along with its external dimensions.

8. WARRANTY AND SUPPORT

Setpower provides comprehensive support for your MC20 portable refrigerator/freezer:

- **Compressor Warranty:** The compressor is covered by a 3-year technical support warranty.
- **Parts Warranty:** All other parts of the unit are covered by a 1-year warranty.

For any questions, technical assistance, or warranty claims regarding your Setpower car fridge, please contact SetPower customer support. Refer to the contact information provided on the product packaging or the official Setpower website for the most current support details.

	<p>SetPower AJ Series Portable Refrigerator User Manual</p> <p>Comprehensive user manual for the SetPower AJ Series portable refrigerators and freezers (AJ30, AJ40, AJ50), covering safety, operation, installation, maintenance, troubleshooting, and warranty information.</p>
	<p>SetPower Portable Refrigerator FC12/FC20 FAQ</p> <p>Find answers to common questions about SetPower portable refrigerators, including models FC12 and FC20. Learn about dimensions, power options, noise levels, and usage.</p>
	<p>SetPower TC65/TC75 Portable Fridge Freezer User Manual</p> <p>Comprehensive user manual for SetPower TC65 and TC75 portable fridge freezers, covering safety instructions, specifications, operation, troubleshooting, and warranty information.</p>
	<p>SetPower RV45S Portable Fridge Freezer User Manual - Operation, Safety, and Warranty</p> <p>Comprehensive user manual for the SetPower RV45S portable fridge freezer. Covers safety information, data sheet, description, installation, operation, maintenance, troubleshooting, and warranty details for 12/24V DC and 110-240V AC use.</p>
	<p>SetPower FC Series Portable Fridge Freezer User Manual</p> <p>This user manual provides comprehensive instructions for operating and maintaining the SetPower FC Series portable fridge freezers, including models FC12 and FC20. It covers safety information, technical specifications, operational guidance, troubleshooting, and warranty details.</p>
	<p>SetPower RV65D Portable Refrigerator/Freezer User Manual</p> <p>Comprehensive user manual for the SetPower RV65D portable refrigerator and freezer, covering safety information, operation, maintenance, troubleshooting, and warranty details.</p>



[\[pdf\]](#) User Manual Instructions Datasheet Warranty

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MC15/20 V2.1 1.SAFETY INSTRUCTIONS 2.DATA SHEET 3.OVERVIEW 4.POWER SOURCE INSTRUCTIONS 5.OPERATIN ... ke o the doors. Leave the shelves in place so that children may not easily climb inside. MC15 **MC20** -4 F to 68 F -20 C to 20 C *Under speci c conditions, the fridge can reach -20 degree...

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[Setpower MC15/MC20 Portable Fridge Freezer FCC Compliance Information](#)

Detailed FCC compliance information for Setpower MC15 and MC20 portable 12V fridge freezers, including warnings and guidelines for residential installations.

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