

**15L
Portable Fridge / Freezer
GH2027**

FEATURES

- Optional removable 15.6AH, 7.8AH or 5.2AH battery
- Solar charging interface
- Detachable lid - pivot point reversible
- DC power connections
- Powered by AC using the optional AC to DC power adapter
- High-efficiency DC compressor and conversion module
- Dual mode operation (Max & Economy)
- Digital temperature display with adjustable control
- 3 Year Warranty
- 3-stage low voltage battery protection
- APP control Via Bluetooth
- USB port to charge USB devices

BOX CONTENTS

- 1 x Portable Dual Zone Fridge / Freezer
- 1 x 12 / 24V Car Cigarette Power Lead

SPECIFICATIONS

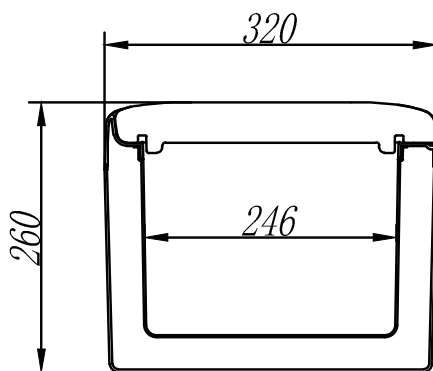
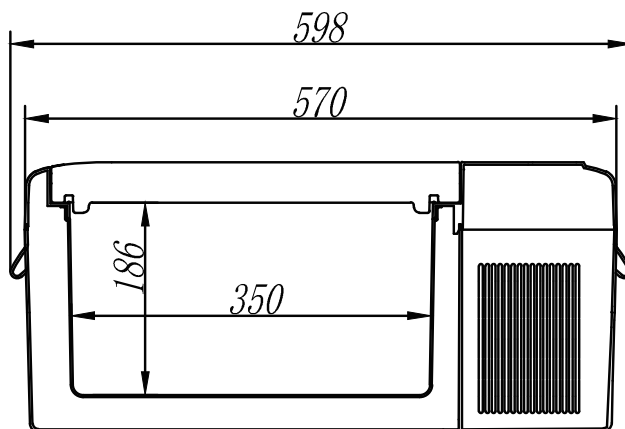
Input Voltage:	12 / 24V DC, (To power from mains use the optional 240V AC to 12V DC power adapter)
Average Power Consumption:	60W
Power Consumption:	0.2kw.h / 24hrs
Rated Current for AC(Adaptor):	1.2A - 0.5A
Rated Current for DC:	5.0A(12V) / 2.5A(24V)
Temperature Range:	-20°C to + 20°C (with ambient temperature at 25°C)

Refrigerant:	R134a
Insulation:	100% CFC & HFC free PU Foam insulation

SAFETY

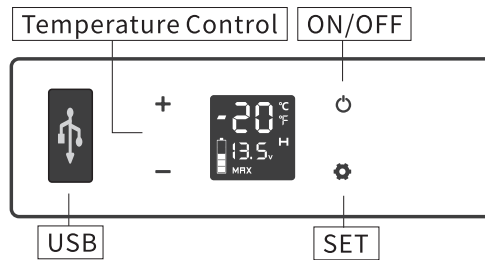
- The installation of DC power sources in a boat must be handled by a qualified electrician
- Make sure to connect power to the suitable voltage socket
- No electrical devices are to be used inside the product
- The product can be powered on only after being unpacked and put on a flat level surface for over 6 hours
- Fridge operating angle:- The fridge can be operated indefinitely at up to 5 degrees, and can be operated at between 6 and 45 degrees for up to 30mins.
- Product must be well ventilated. Ensure there is a minimum of 200mm clearance at the back, and 100mm around the sides
- The product should be in a well-ventilated space, away from heat sources. Try to avoid direct exposure to sunlight
- Keep product stable
- When there is water inside the tank, do not turn the product upside down to empty. Dry the water, do not soak in water
- Do not put metal in the air inlet vent, outlet vent, or gap
- Do not connect with power except 12/24VDC, or the 240VAC to 12VDC power adapter (optional)
- Do not soak the product in water or wash with water
- The product should not be repaired. If there is any issues please consult the place of purchase
- Turn off the product before cleaning to avoid electric shocks or other issues
- Keep product away from wet or humid places







DIMENSIONS



GH-2027

OPERATION



- **Power supply:** connecting to 12V/24V DC power , 100~240V AC power(using the adapter), or use detachable battery.
- **Display Screen Initialization:** when the fridge is connected to the power supply, the buzzer will make a long beep, and the display will be on for two seconds then enter the normal operating mode.
- **Power On/Off:** press  to switch ON/OFF.
- **Temperature Setting:** press **+** or **-** for temperature setting, the setting will be saved automatically after stopping operating for 4 seconds(Note: the temperature displayed is the current temperature of the compartment, it'll take a while to reach the set temperature.)Temperature setting range: -20~20°C (-4~68°F)
- **Cooling Mode:** under the running state, press  to switch MAX(fast cooling) and ECO(Energy saving Mode).(*Factory setting is MAX.)
- **Temperature Unit Setting:** switch off the fridge, long press  for three seconds until E1displays, keep pressing  until E5 displays. then press **+** or **-** to select Celsius or Fahrenheit. (*Factory setting is °C.)
- **Battery Protection Mode:** under the running state, long press  for three seconds until screen flashes, then press  again to select protection mode H(High), M(Middle) and L(Low) (*Factory setting is H.)

Due to the different output voltages between vehicles, H should be set when the product is connected to car power, and M or L should be set when it is connected to a portable battery or other back-up battery.


The battery gear should be set from H to M or from M to L if there is a voltage protection code F1 shown on the panel. The battery gear should be set to H if the product keeps working after turning off the car engine, or the product may drain the battery.

Voltage Reference:








INPUT MODE	DC 12V		DC 24V	
	CUT OUT	CUT IN	CUT OUT	CUT IN
L	8.5V	10.9V	21.3V	22.7V
M	10.1V	11.4V	22.3V	23.7V
H	11.1V	12.4V	24.3V	25.7V

*the voltage is theoretical value, there may be a deviation in different sceneries.

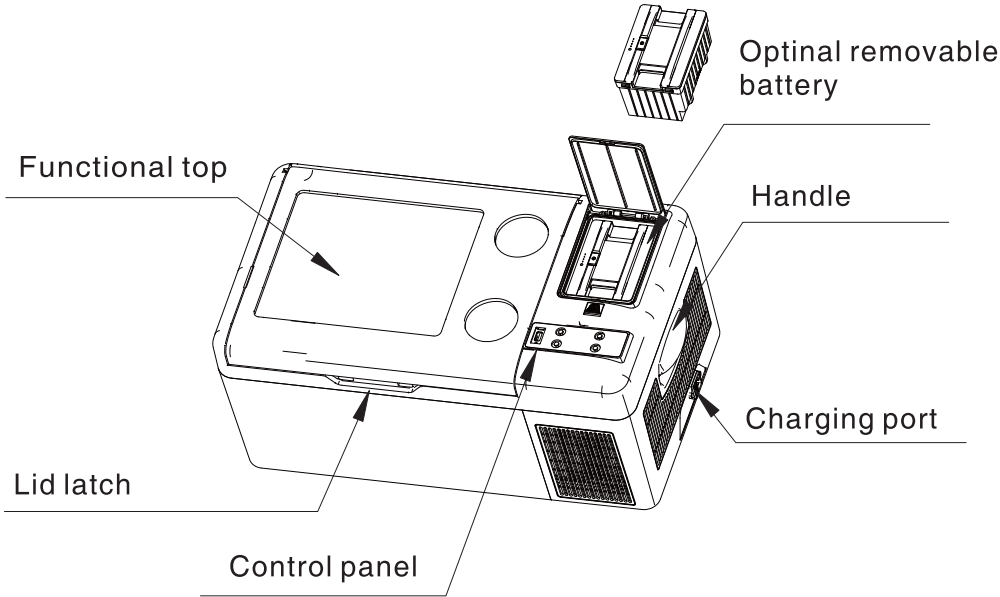
*USB output: +5V DC/1A, suitable for small devices like mobile phones, tablets, etc.

- **Reset:** switch off the fridge, long press  for three seconds until E1 displays, under E1 mode, long press **+** **-** at the same time for three seconds to reset the settings.

■ Recommended temperature for common food:

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

COMPONENTS



POWER SUPPLY AND CHARGING

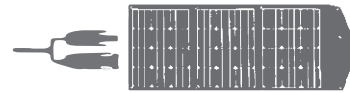
- Power Supply: The refrigerator can be powered by 12V / 24V DC power
- 100-240V AC (By optional adapter)
- Optional removable Lithium battery if there is no connection of DC / AC power. DC / AC power will run the refrigerator, and charge the optional removable battery simultaneously.
- Battery Charging: There are three types of charging methods. 12V / 24V DC power, 100-240V AC with adapter, or solar panel (12V-50V).



Optional Removable Battery



with AC to DC adapter



Solar Panel
(Optional)



Car cigarette lighter with DC cable



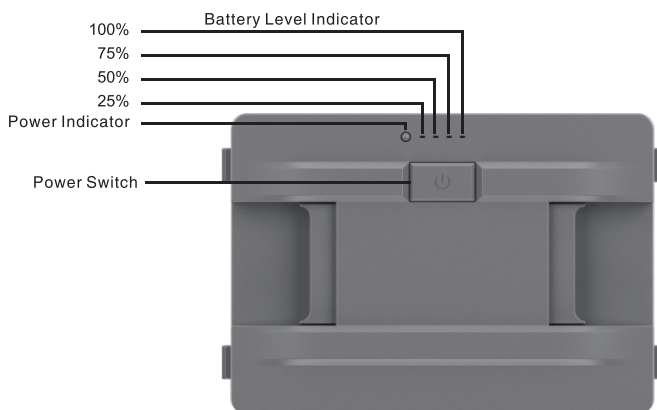
AC to DC adapter
(optional)



DC cable
(included)

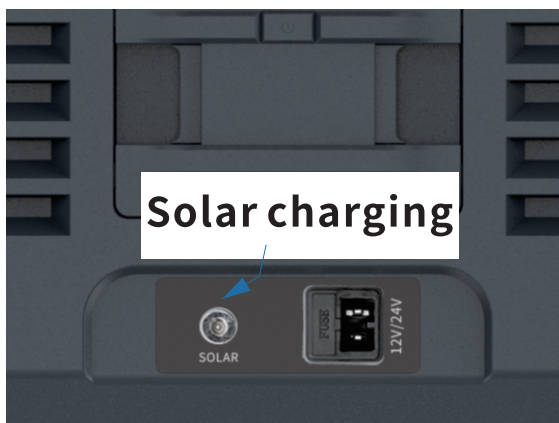
Optional Removable Battery Information:


Battery Model	Capacity	Rated Voltage	Charging Limited Voltage	Max Charging Current
GH-2050	5.2AH	11.1V	12.6V	4A
GH-2052	7.8AH	11.1V	12.6V	4A
GH-2054	15.6AH	11.1V	12.6V	4A



⚠ Warning: please do not open or disassemble the battery.


Solar panel charge connection:




Insert the solar charge cable into the refrigerator's Solar charge interface 

Max Solar input Voltage: 50V

Max Solar input Current: 10A


- **Checking Charge Status:** When the refrigerator is powered ON and DC / AC power is connected, the battery icon on display screen will flash to show charging. To charge the fridge / freezer battery without running the compressor, simply connect the adapters without powering "ON" the fridge. To view charging status please press and hold button  for 3 seconds. The fridge's battery status and voltage will be displayed. When the voltage reaches 12.6V and the battery icon stops flashing, the unit has been fully charged and wiring should be disconnected to prevent internal component from damage.

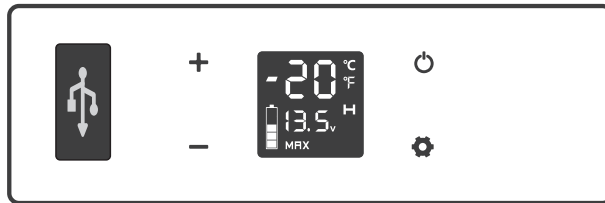
 **Warning:** Do not charge fridge / freezer with DC 12V and Solar Panel at the same time! The fridge could be seriously damaged and pose a potential hazard to you.

- **AC Charging Management**

If the fridge has not been used for a long time, the battery may be discharged, and the fridge will not power on. Please use the AC adapter to charge the fridge battery and run the fridge. After the fridge battery has charged up to 30%, you can switch to other methods for charging.


- **Car Cigarette Lighter Charging Management**

The product has a three-level battery protection function, which not only guarantees the normal operation of the product, but also protect the battery of the vehicle. When in the power-on state, long press SET button for 3 seconds and the display screen flashes H, select low voltage production L(ow), M(edium), and H(igh) by clicking button . The factory default is set to H(igh) protection.



H should be set when the product is connected to car power, and M or L should be set when it is connected to a portable battery or other back-up battery. Because of the different output voltages between vehicles, the battery protection level can be set from H to M or from M to L if there is a voltage protection code F1 shown on the panel. The battery protection level should be set to H if the product will keep working after turning off the car engine, or the product may drain the battery.

- **Solar Charging Management**

To make sure your fridge is being charged by a solar panel, please turn the fridge on first. The battery icon will flash on the display screen to show the charging status. The fridge can be turned off while it is being charged. Press and hold  button for over 3 seconds to check the battery status and voltage. An extension cable may be required to keep the fridge in a cool place (to avoid overheating) while the solar panel is in the sun. Input power for charging should be higher than the refrigerator power draw (about 40-45w), otherwise the optional battery will not charge at the same time. To ensure that solar charging power is higher than refrigerator working power, a 100-Watt solar panel is advised.

BATTERY USAGE

- **Optional Removable Battery:** The lithium battery is back up power to keep the refrigerator working for short periods while off grid.

- **Notice:** When not using the battery power or fridge for a long time, please turn off the battery output. (Hold setting button for 3 Sec).

- **Maintain Battery Charge:**

1. Home / Hotel: Use AC adapter to charge unit from AC outlet.

2. Car / Boat: Use DC port to power the fridge and charge the battery.

3. Outdoor: Charge the battery with a solar panel (optional). Portable 12V power system / solar with / or petrol generator would be good companion.

- **Extended battery usage:**



1. Cool down the fridge before your journey: It is always suggested to charge fridge battery and cool the fridge down in advance with the mains to DC adapter from the wall outlet the day before the trip.

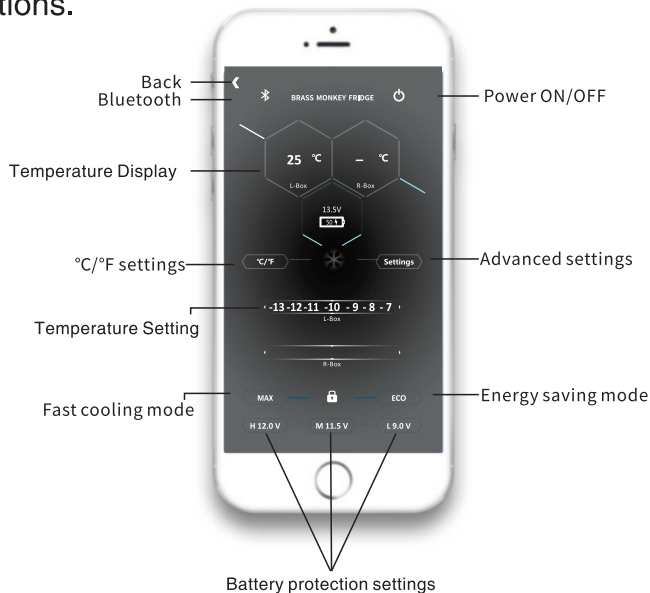
To prepare for off-grid fridge usage, place food and beverages inside fridge for cooling the day before. This will not only keep the optional battery more durable, but also save energy for outdoor activities once on battery mode.

2. Disconnecting the Battery: The battery can be removed or disconnected with the side button. This prevents the battery from discharging. The product will work from the AC adapter or car outlet without the optional battery installed. Note: Please charge fully the optional battery before it is put into storage 1 month or more.

SMART CONTROL FRIDGE APP APPLICATION INSTRUCTION

Downloading the "BRASS MONKEY FRIDGE" Application

- Using a pre-installed QR reader on your handheld smart device scan the QR code in the manual or on the carton, or search for the "BRASS MONKEY FRIDGE" APP in the iTunes App Store (for Apple devices) or Google store (Android Devices).
- Start the application and select the "Search" function.
- The application will prompt you to pair the fridge by pressing the set button  on the fridge's control panel. Once set button  has been activated, the fridge will be paired with your smart device and the application will switch to a control panel allowing you to control the fridge's functions.



Please scan the QR code to download APP

QR Code for Apple Devices



QR Code for Android Devices



CLEANING & MAINTENANCE

Cleaning:

- Unplug the device first to avoid electric shock.
- Use wet cloth to clean the device and dry it.
- Do not soak the device in water and do not wash it directly.
- Do not use abrasive cleaning agents as these can damage the device.

Storage:

If the device will not be in use for a long time, please follow the steps:

- Turn off the power and remove the plug.
- Remove all the items stored in the device.
- Wipe off excess water from the fridge with a soft rag.
- Put the device in a cool and dry place.
- Leave the door slightly open to prevent odors from forming.

Defrosting:

Humidity can form frost in the interior of the cooling device or on the evaporator.

This reduces the cooling capacity. Defrost the device in good time to avoid this.

- Switch off the device.
- Take out the contents of the device.
- Keep the door open.
- Wipe off the defrosted water.



Never use hard or sharp tools to remove ice or to loosen objects which have frozen in place.

■ Disposal:

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



If you wish to finally dispose of the product, ask your local recycling center or specialist dealer for details about how to do this in accordance with the applicable disposal regulations.

TROUBLESHOOTING

- The product is not working:
 - If using the 240VAC to 12VDC adapter (sold separately) check the power supply is working
 - If using the DC cable please ensure the cable still works.
 - Check the power supply is working
 - Check if the plug and socket are connected
 - Check the fuse
 - Check power switch on control panel is on
 - Compressor starts delay protection for 3 minutes after turning on
- Food inside the product is frozen:
 - Temperature is set too low
- Water flowing sound inside the tank:
 - Refrigerant is flowing, this is normal
- Water drops around the case or door gap:
 - When moisture in the air meets the lower temperature case, it will naturally become liquefied and condensed. Wipe away with a towel or soft cloth
- Code F1 displayed:
 - Low voltage protection, which can be solved by setting the battery protection button from H to M or from M to L
- Code F2 displayed:
 - Fan overload protection. Please turn off the product and restart it after 30 minutes. If the code displays again, please contact the place of purchase

- Code F3 displayed:
 - Compressor frequent start protection. Please turn off the product and restart it after 30 minutes. If the code displays again, please contact the place of purchase
- Code F4 displayed:
 - Compressor is overloaded or working at a low speed. Please turn off the product and restart it after 30 minutes. If the code displays again, please contact the place of purchase
- Code F5 displayed:
 - High temperature compressor module protection. Please move the product to a ventilated area and turn it off for 30 minutes then restart it. If the code displays again, please contact the place of purchase
- Code F6 displayed:
 - No parameter can be detected by the controller. Please restart the product. If the code displays again, please contact the place of purchase
- Code F7 / F8 displayed:
 - Temperature sensor error protection. Please check the sensor terminal

The warranty for this product is 2 years from date of purchase. During the warranty period the following are excluded from coverage:

- Intentional damage
- Damage by fire, flood, etc
- Damage or malfunction caused by incorrect usage and not following this user manual
- Damage or malfunction caused by disassembling

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