

**45L/60L
Dual Power Fridge/Freezer
User Manual
GH-1633/GH-1638**



Please read these instructions and safety section carefully before using your refrigerator.

Keep the instructions for future reference.

Features:

- LG compressor
- APP control via Bluetooth
- Superior electronic technology, high efficiency, low energy consumption
- Multi-voltage system (DC 12/24 Volt)
- Battery protection, protect your vehicle battery efficiently





SAFETY INSTRUCTIONS

WARNING:

- Do not touch exposed cables with your bare hands when operating the appliance.
- It is dangerous to touch the plug when your hand is wet.
- When using the refrigerator in a vehicle or boat, please make sure the electricity has a fuse if using mains power.
- The installation of the DC power source in a boat should be handled by qualified personnel.
- Make sure the voltage is correct. Check technical data label
- Do not place any electrical devices inside the refrigerator.
- Please keep the appliance away from substances which can cause fire ignition.
- The appliance is not intended for use by young children or infirm persons unless they are adequately supervised by a responsible person to ensure that they can use the unit safely.
- Young children should be supervised to ensure that they do not play with the appliance.

PLEASE NOTE:

- Your refrigerator requires good ventilation, especially around the back of the unit. Allow a gap of at least 200mm around the back and 100mm around the right.
- Avoid humidity. Humidity inside the appliance can form frost and impair cooling. Therefore, defrost it before this happens. Never clean the appliance under running water or in dish water.
- Avoid placing your refrigerator near a heat source. This helps the refrigerator work more efficiently and keep contents cool.
- Place the refrigerator on a flat surface and away from any edges. When placing the refrigerator into the car, please use the belt to fasten it securely.





OPERATION

- **Power:** The electronic device can control the compressor system and provide battery protection. When the input voltage drops to minimum, it can stop the compressor; when the voltage comes back to the normal value, the compressor will restart automatically.
- **Battery Protection:** Selecting the Low, Med, High positions of the switch, you can choose different levels for battery protection. Below you can find the battery tension values when the compressor stops running (cut-out) and when the compressor restarts (cut-in).

Battery Protection	12V Cut-Out	12V Cut-In	24V Cut-Out	24V Cut-In
Low	8.5V	10.9V	21.6V	23.0V
Med	10.1V	11.4V	22.3V	23.7V
High	11.3V	12.6V	24.3V	25.7V

- **Battery electric power display**

Battery	Section	LCD Display	Battery Level
	1		9.7V
	2		10.4V
	3		11.1V
	4		11.8V
	5		12.5V
	6		13.2V

- **Buzzing**
 1. If you press any button, the refrigerator will have a buzzer alarm sound.
 2. When the battery level reaches 1, a buzzer alarm will sound.

- **Cable Length Specification**

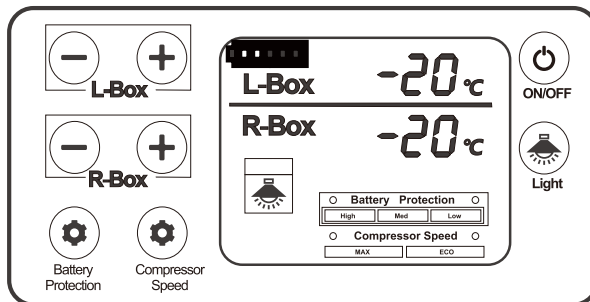
The DC cables must have a suitable cross-section for their length, according to this table:



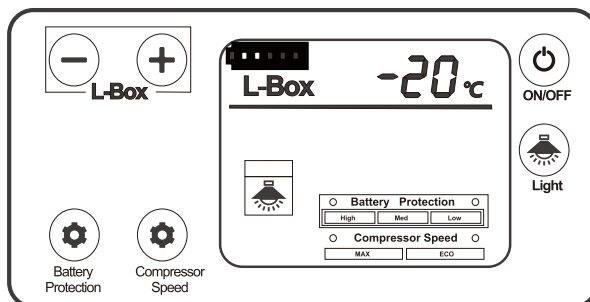


Cable Area		12V Max Cable Length		24V Max Cable Length	
mm ²	AWG	m	ft	m	ft
2.5	12	<2.5	<8	<5	<16
4	12	<4	<13	<8	<26
6	10	<6	<20	<12	<39
10	8	<10	<33	<20	<66

- The length is from the battery to the refrigerator.
Temperature setting range: -18°C~10°C
The LCD Display range: -20°C~40°C





- Press the ▲ button or ▼ button to adjust the temperature the unit aims to achieve. Press the ▲ button to increase or the ▼ button to decrease the temperature.
- Press the left bin ▲ button and ▼ button at the same time to cut off the left bin cooling (only right bin cooling).
- Only set one temperature at a time.



- Press the ▲ button or ▼ button to adjust the temperature the unit aims to achieve. Press the ▲ button to increase or the ▼ button to decrease the temperature.





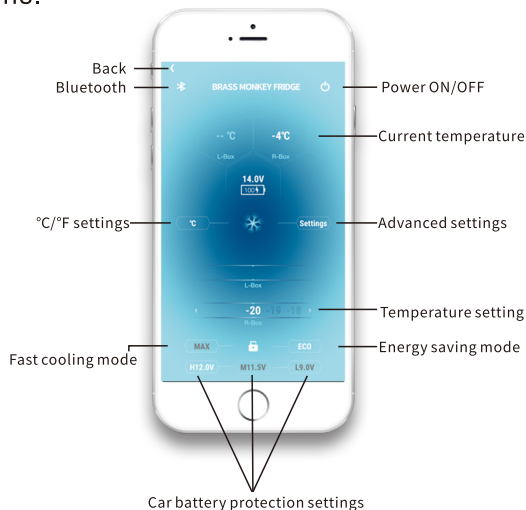


- ON/OFF Power Button: Press ON/OFF button to turn the unit off, then press the ON/OFF button to turn unit on.
- If the power source is cut off or disconnected, the unit will switch off automatically and once the power is restored it will automatically switch back on with the same settings.
- Press the Compressor Speed button to set the speed of the compressor, Max (3000 RPM), MIN (2000 RPM) the LCD light will show which speed is selected.
- Press the Battery Protection button to set the voltage the fridge cuts out at, LOW, MED or HIGH. The LCD light will show which voltage is selected.
- Press the  button ,then the light of the left and right bin turn on and the LCD will display, Press the  button again, the light turn off; If you forget to turn off the right, the light will turn off automatically in 3 minutes.
- The left bin can be set as cold or warmer than the right bin.
- If the power supply is cut off, the refrigerator will switch on automatically when power is returned.

SMART CONTROL FRIDGE APP APPLICATION INSTRUCTION

Downloading the "BRASS MONKEY " 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 "**BRASS MONKEY**" application in iTunes App Store (for Apple devices) or Google store (Android Devices).
- Connect the fridge to power and switch it on using the control panel.
- 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.





CLEANING & MAINTENANCE

- Be sure to cut off all input power before cleaning appliance.
- Clean the appliance inside and out with a damp cloth once a week. If it is dirty, using sodium bicarbonate dissolved in lukewarm water can be used to clean.
- Never use abrasive products, detergents or soap. After washing, rinse with clean water and dry carefully. Do not leave the refrigerator shut off, warm inside or with food inside or lid closed.
- Never clean the appliance under running water or in dish water. Do not use abrasive cleaning agents or hard objects during cleaning as these can damage the refrigerator.

FAQ

- The fridge can not power on
 - Check the power supply
 - Whether the plug and the socket have a good connection.
 - Whether the fuse has been burned out
 - Whether the appliance has been turned on
- The food inside is frozen
 - The setting temperature is too low
- Bad performance in refrigeration
 - Has too much food been placed inside the refrigerator
 - The door is unlocked
 - The door seal is broken
 - Problems arising from poor ventilation
 - There is too much heated food inside
 - There is no room around the appliance
 - There is a hot source nearby
 - The temperature setting is inappropriate
- Hear the sound of water internally
 - Flow of the refrigerant.
- Noise
 - The refrigerator is not placed on a level surface
 - Touching the wall or other place
 - Parts have detached from the interior of the refrigerator





TROUBLESHOOTING

Error Code	Problems	Suggestions
F1	Low voltage protection	<ol style="list-style-type: none">1. Change the battery,2. Switch to lower battery protection stage from “High” to “Middle”, or “Middle” to “Low”
F2	Short circuit on fan, or controller problem	Change the fan or controller
F3	The compressor starts frequently; the starting pressure is too high; over heat; controller problem; compressor problem	Power off for around 30 minutes until it cools down. Restart the fridge. If it doesn't work, need to replace the controller. If it still doesn't work, need to replace the compressor
F4	The compressor is over loaded	Power off for around 30 minutes, keep good ventilation. If it doesn't work, then need to replace the controller
F5	Controller is over heat($\geq 70^{\circ}\text{C}$)	Power off for around 30 minutes, keep good ventilation
F6	The controller cannot detect data	Replace the controller
F7/F8	<ol style="list-style-type: none">1. Temperature sensor cable not well connected2. Temperature sensor doesn't work	<ol style="list-style-type: none">1. Make sure the temperature sensor cable is well connected.2. Change a temperature sensor

Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

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