# USER GUIDE
# iFROST 75L
## FRIDGE / FREEZER




iFROST

POWERED BY iTECHWORLD THE POWER EXPERT

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Ver 1.0

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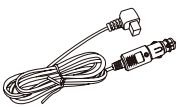
# OVERVIEW

Introducing the iFROST 75L Portable Dual Zone Fridge/Freezer, your ultimate solution for keeping food and drinks cold without relying on melting ice. Its insulated cabinet maximises efficiency and extends runtime. For longer adventures, you can power the fridge using the included 12V adapter, in combination with a power station or dual battery system, or by connecting to AC power with the included AC adapter. Twin lids give you independent access to each compartment, making the unit ideal for camping, 4WDs, caravans, boats, picnics, or even as an extra fridge at home.

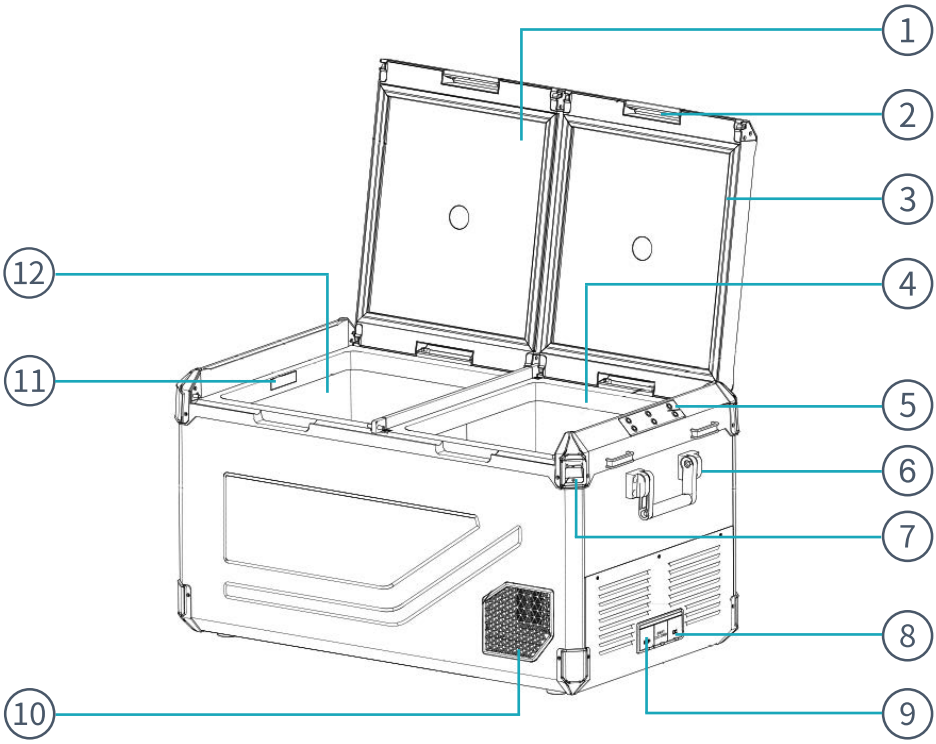
## KEY FEATURES

- Dual Zone Capabilities
- Independent Zone Control
- MAX & ECO Cooling Modes
- 12V/24V DC Input
- AC 240V Input (via AC adapter)
- Three Level Battery Protection
- Power-Off Memory
- Interior Light & Built-In Bottle Opener
- Large Temperature Range (-20°C to +20°C)

## PACKAGE CONTENTS

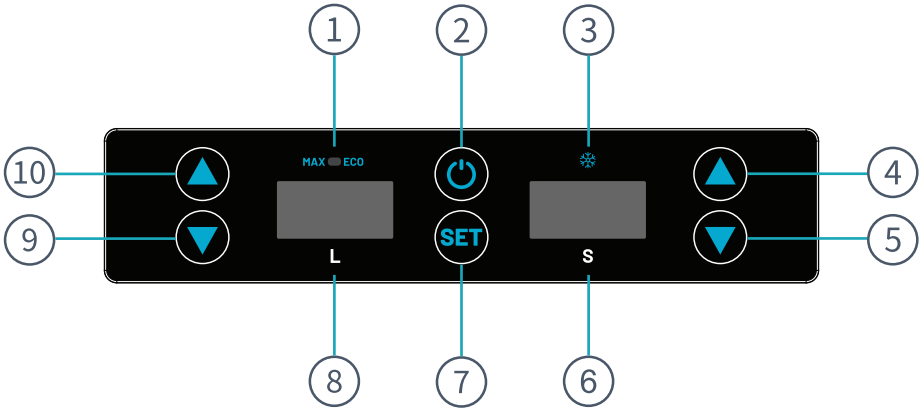
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|---|---|---|---|
|  |  |  |  |
| iFROST 75LFridge / Freezer | AC Adapter | DC Adapter | User Guide |

## UNIT DIAGRAM




1. **LID**
2. **LID LATCH**
3. **LID SEAL**
4. **SMALL COMPARTMENT**
5. **LED PANEL**
6. **HANDLE**
7. **BOTTLE OPENER**
8. **POWER PORTS**
9. **USB OUTPUT PORT**
10. **AIR VENT**
11. **INTERIOR LIGHT**
12. **LARGE COMPARTMENT**

## LED PANEL




1. ECO / MAX INDICATOR
2. MAIN POWER CONTROL
3. COOLING STATUS INDICATOR
6. SMALL COMPARTMENT TEMPERATURE
7. SETTINGS BUTTON
8. LARGE COMPARTMENT TEMPERATURE

4. INCREASE BUTTON
5. DECREASE BUTTON

SMALL COMPARTMENT

9. DECREASE BUTTON
10. INCREASE BUTTON

LARGE COMPARTMENT

## OPTIONAL ACCESSORIES

FRIDGE SLIDE

# GETTING STARTED

Upon receiving your fridge / freezer, ensure you have all the included adapters and that they are intact. Before first use, clean the fridge inside and out with a damp cloth. Place the unit in a dry area away from water, heat and direct sunlight.

The cooling compartment features a dual zone section made up of a large compartment and a small compartment, each with its own temperature display. We recommend using the large compartment as a fridge (for fresh food) and the small compartment as a freezer (for frozen food).

**WARNING:** Before storing medication, confirm the fridge / freezer's cooling capacity meets the specific requirements of the medication.

The unit has been designed and developed to work optimally within an ambient temperature range of -10°C to 55°C and up to 90% humidity. Always operate the unit on a flat, level surface. Do not tilt or lean the fridge while it is running, as this may damage the internal components.

**WARNING:** Adequate airflow around the air vents is necessary for peak fridge / freezer performance.

**NOTE:** Condensation or ice may form around the lid seals and the front of the cabinet when the fridge runs for extended periods. This is normal. Wipe away any condensation or ice with a dry towel.

**NOTE:** This fridge / freezer is designed for camping and travel, and is not intended for long-term frozen food storage. To save energy and reduce condensation and ice build-up, avoid running the fridge at settings below 0°C for extended periods.

**NOTE:** Defrost water may collect inside the compartments if the fridge is switched off or left on standby for a long time. This is normal. Dry the inside with a towel before storing the fridge.

## PLACEMENT

Upon receiving your iFROST 75L Fridge / Freezer, ensure you have all the included adapters and that they are intact. Place the unit in a dry area away from water, heat, or direct sunlight.

The unit can operate continuously at a maximum angle of 30 degrees.




Prolonged operation with an angle of 30° or more is not recommended; you should limit use in this state to a maximum of 4 hours.

**WARNING:** Adequate airflow around the air vents is necessary for peak fridge / freezer performance.

## POWERING THE FRIDGE

There are 2 different ways to power your fridge, each outlined below:

### DC Adapter

When you want to run the fridge from DC 12V / 24V power, plug the DC 12V / 24V adapter and cable into either of the fridge's DC 12V / 24V input ports, located at each end of the fridge, then connect the male cigarette plug to a female cigarette socket, ensuring it is a suitable DC 12V / 24V power source. Route the cable to suit the interior of your vehicle.

The fridge will then need to be turned on via the display.

### AC Adapter

When you want to run the fridge from mains power, plug the AC adapter into either of the fridge's AC adapter input ports, located at each end of the fridge, then connect the other end to a suitable AC 240V power source.

The fridge will then need to be turned on via the display.

**NOTE:** The fridge can be connected to more than one power source. Each DC 12V / 24V input port includes a 15A blade fuse to help protect the fridge and your power source.

# OPERATION

## POWERING ON & OFF

Press the ⏻ button to turn the fridge on or place it in standby.

## TEMPERATURE SET

Use the ▲ and ▼ buttons on the left of the control panel to set the desired temperature of the large compartment, and the ▲ and ▼ buttons on the right to set the small compartment. Each compartment can be set from -20°C to +20°C. The compressor will automatically switch off once the temperature is reached, and it will continue to maintain this temperature.

To confirm this setting, refrain from pressing any buttons. The temperature will flash for 3 seconds and then save, and the display will return to showing the actual temperature of the compartment.

## MAX / ECO MODE

Press the **SET** button to switch between MAX mode (white light) for powerful cooling, and ECO mode (green light) for energy-saving cooling.

## ZONE ON & OFF

Each compartment can be turned on or off independently. Press and hold ⏻ the button and the small compartment ▲ button together to turn the small compartment on or off. Press and hold the ⏻ button and the large compartment ▲ button together to turn the large compartment on or off.

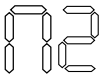
If "- - -" is displayed, the compartment is off. If a temperature is displayed, the compartment is on.

## SETTINGS

The setting menu is used to adjust the battery monitor. Details of how to adjust it are listed below.

Battery Monitor

There are 3 voltage cut-out settings. Press and hold the **SET** button for 3 seconds to enter the battery protection setting, then press the **SET** button again to cycle through H1, N2 and L3. If no buttons are pressed, the selected level will flash for 3 seconds and then save.

| Setting | Display | 12V | | 24V | |
|---|---|---|---|---|---|
| | | Turn OFF | Turn ON | Turn OFF | Turn ON |
| Low |  | <8.5V | >11.4V | <21.3V | >22.7V |
| Medium |  | <10.1V | >11.4V | <22.3V | >23.7V |
| High |  | <11.3V | >12.5V | <24.6V | >26V |

**NOTE:** We suggest using the H1 setting.

Turn OFF and Turn ON refer to the compressor stopping and starting.

The voltage outputs may vary among different vehicles. If the fault light displays E1, it indicates that the input voltage is too low. In this instance, lower the voltage setting (L3 / N2 / H1).

## POWER-OFF MEMORY

If power to the fridge is lost, its previous working state (on / off status, set temperatures and MAX / ECO mode) will be automatically restored when power returns, so there is no need to set it again.

# TROUBLESHOOTING

If your fridge is not running, please test your power source input. To troubleshoot this, connect the fridge to at least 2 different power sources for a minimum of 30 minutes each, such as an AC 240V wall socket and a vehicle's DC 12V power.

If the fridge works correctly when connected to one of these sources, the issue is likely not the fridge. The fridge will operate consistently regardless of where the power comes from, as long as it is stable and within the correct range. Typical problems include wiring issues, undercharged batteries and connection problems.

**If your fridge display is not turning on:**

1. Check the input power source (ensure the voltage is neither too high nor too low).
2. Inspect the power cables and all connections between the input power source and the fridge, ensuring the plug is not loose and the polarity is not reversed.
3. Confirm that both the input power source and the fridge are turned on.
4. Check that the 15A blade fuse in the DC input port being used is still intact.

**If your fridge is performing poorly:**

1. Ensure both lids are closed properly.
2. Check that the lid seals are not damaged or deformed.
3. Check the input power source (ensure the voltage is neither too high nor too low).
4. Confirm adequate ventilation around the fridge vents.
5. Ensure the temperature of the food being placed inside the fridge is not too high.
6. Verify the temperature setting is correct.
7. Verify the fridge is not in direct sunlight.

**If your fridge is making unusual noises:**

1. Ensure the fridge is on a flat, level surface.
2. Check for vibration from surrounding objects.
3. Check for any loose or detached parts.

**Condensation:** It is normal for some condensation to form on the outside of the fridge when the air humidity is above 75%.

## FAULT CODES

| Fault Code | Fault | Solution |
|---|---|---|
| E1 | Low Input Voltage | If the fridge was plugged in before the vehicle was started, wait until the engine is running, then reconnect the fridge. If the input voltage is too low, lower the battery protection setting to N2 or L3. If you are still experiencing issues, please contact the iTechworld service centre. |
| E2 | Fan Fault | Isolate the fridge from all power sources and contact the iTechworld service centre, as the fan may need to be replaced. |
| E3 | Input voltage fault due to the compressor starting frequently | In a vehicle, switch the fridge off for 5 minutes, then restart it. If E3 remains, follow the E1 solution. When using the AC adapter, lower the battery protection setting to N2 or L3. If you are still experiencing issues, please contact the iTechworld service centre. |
| E4 | Low Compressor Speed | Check that the input voltage is within the correct range, then disconnect and reconnect the power. If you are still experiencing issues, please contact the iTechworld service centre. |
| E5 | Controller Chip Overheating | Switch the fridge off for 5 minutes and check for poor ventilation around the compressor and air vents. If you are still experiencing issues, please contact the iTechworld service centre. |
| E6 | Temperature sensor (NTC) open or short circuit | Isolate the fridge from all power sources and contact the iTechworld service centre. |

**Pro Tips:** Pre-chill your fridge and contents before embarking on a trip to optimise efficiency and minimise the amp draw, as the fridge requires time to cool down its walls, air and contents to the set temperature.

Optimal fridge fullness is around half to three quarters full.

# SPECIFICATIONS

| General | |
|---|---|
| Model | IF-P75 |
| Dimensions | 955 x 525 x 415mm |
| Dimensions with Handles | 1019 x 525 x 415mm |
| Weight | 27.1kg |
| Capacity | 75L |
| Compressor | LG |
| Power Input | DC 12V / 24V, AC 240V (via AC adapter) |
| DC Input | Yes |
| AC Input | Yes (via AC adapter) |
| 12V Average Amp Draw | 1A |
| 12V Max Amp Draw | 4.4A |
| 24V Average Amp Draw | 0.5A |
| 24V Max Amp Draw | 2.2A |
| Insulation | Polyurethane/Cyclopentane |
| Cooling Modes | MAX / ECO |
| Cooling Range | -20°C to +20°C |

The iFROST 75L Fridge / Freezer is CE and RCM certified.

## MAINTENANCE

Your fridge has already been cleaned by iFROST, but it is advisable to clean it again before the first use. We recommend using a damp cloth with warm water for this. Be careful to avoid getting water into the seals or electrical components. After cleaning, dry the fridge entirely with a cloth. Clean the inner compartments regularly to prevent odours and bacteria and to keep food safe. If you are storing the fridge for an extended period of time, disconnect the power, keep the fridge dry and leave the lids slightly open to prevent odours and mould.

- Do not use cleaning agents
- Do not use hard brushes
- Ensure all power input cables have been removed
- Dry the fridge completely after washing

# SAFETY PRECAUTIONS

For safe operation and optimal performance, the iFROST 75L Fridge / Freezer must be operated correctly. Please carefully read, understand and follow all instructions and guidelines in this user guide. Failure to follow these instructions may result in damage to the unit or property, death or serious injury.

**Disclaimer:** While iTechworld has taken every precaution to ensure the accuracy of the contents of this user guide, iTechworld assumes no responsibility for any errors or omissions.

**Furthermore, all specifications and functionality may change at any time without notice.**

It is best to view our website for the most up-to date information.

**WARNING:**
People with physical disabilities or visual, sensory or mental impairments (including children) should not use this fridge. Children should be supervised to ensure they do not play with the fridge.

**WARNING:**
Please use the recommended and included cables specified in this user guide. Always ensure the fridge is connected to the correct voltage, as shown on the rating label.

**WARNING:**
The fridge is not waterproof, do not expose the unit to moisture or precipitation.

**WARNING:**
Do not pour liquids directly into the fridge, and do not store corrosive liquids in it.

**WARNING:**
Secure the fridge properly during transportation.

**WARNING:**
If you are installing the fridge on a boat, the installation should be carried out by a qualified electrician.

**WARNING:**
Do not drop the fridge.

**WARNING:**
Do not expose the fridge to direct sunlight, as this may damage the fridge.

**DANGER:**
Ensure the fridge is placed in a well-ventilated area during use. Failure to do so may cause the fridge to overheat.

**DANGER:**
Do not disassemble or modify the fridge. Doing so may result in a risk of electric shock, fire, death or serious injury.

**DANGER:**
Avoid handling cables or plugs with wet hands or if any part of your body is in contact with water. When operating the fridge on board a boat using an AC 240V power source, ensure the connection has an RCD. Failure to do so may result in a risk of electric shock, fire, death or serious injury.

**DANGER:**
Do not damage any of the power cables connected to the fridge. This includes kinking the cables, wrapping the cables around the fridge or pulling the cables around sharp edges.

**REGULAR INSPECTIONS:**
Regularly check the fridge and all connections for signs of damage.

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## CONTACT US



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At iTechworld, we proudly lead the way in pioneering innovative off-grid power and battery solutions that bring cutting-edge technology to adventure seekers, remote workers, and outdoor enthusiasts across Australia. Since we began our journey all the way back in 2006, our passion has been to develop high-performance lithium batteries, solar panels, power stations, generators, and battery management systems tailored to caravans, camping, 4WDs, and off-grid living.

We believe in empowering people with reliable, portable, and efficient energy solutions, giving them the power they need—wherever their journey takes them. Our commitment to quality is unwavering, with every product rigorously tested to meet Australian conditions and backed by our knowledgeable power experts.

Driven by innovation, reliability, and sustainability, iTechworld is your trusted partner in power solutions, helping you stay powered anywhere, anytime.

**iTechworld. The Power Expert.**

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