

# USER GUIDE

# iFROST 95L

## FRIDGE / FREEZER



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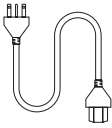
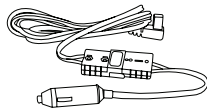


# OVERVIEW

Introducing the iFROST 95L Lithium Portable Dual Zone Fridge/Freezer, your ultimate solution for keeping food and drinks cold without relying on melting ice. Its thick insulation maximises efficiency and extends runtime. For longer adventures, you can power the fridge using the included 12V adaptor, in combination with a power station, dual battery system, or by connecting to AC power. The smart lid is designed to open from both sides, making the unit ideal for camping, 4WDs, caravans, boats, picnics, or even as an extra fridge at home.

## KEY FEATURES:

- Dual Zone Capabilities
- Low Amp Consumption
- Huayi Compressor
- Low Profile (467mm high)
- Smart Lid
- 12V/24V Input
- 240V Input
- Large Temperature Range (-18°C~10°C)

## Accessory List

 AC Adaptor	 DC Adaptor	 Wire Basket	 User Manual
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## PRODUCT OVERVIEW:



① LID LATCHES

② LID

③ BASKET

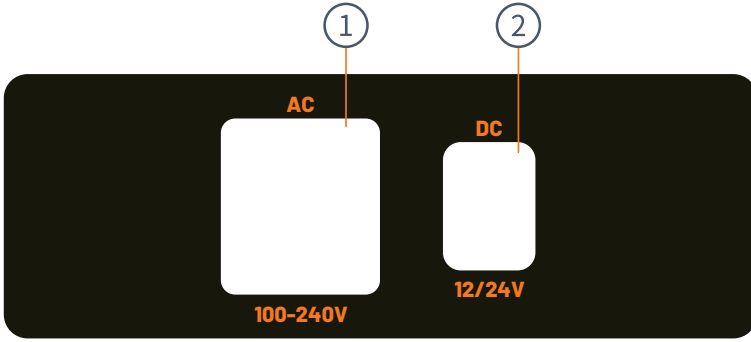
④ DISPLAY

⑤ HANDLE

⑥ DC INPUT

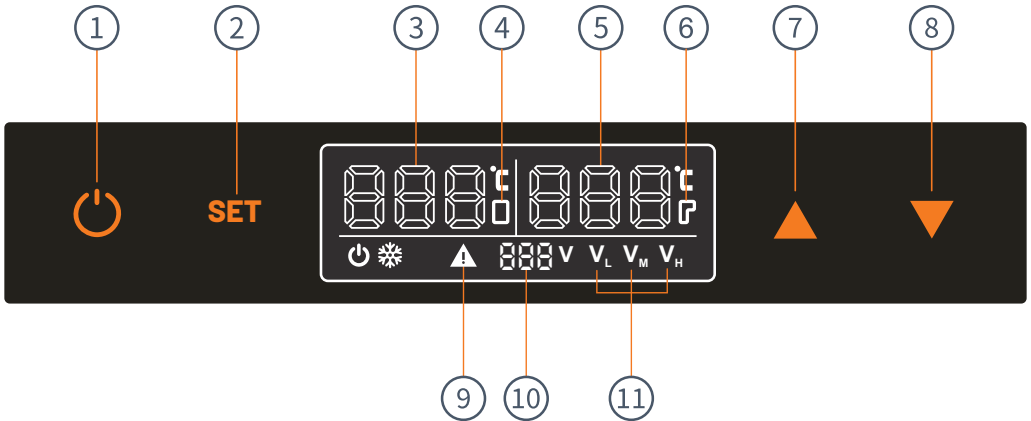
⑦ AC INPUT

⑧ AIR VENT



① AC 240V INPUT PORT

② DC 12V/24V INPUT PORT



① MAIN POWER CONTROL

⑦ INCREASE BUTTON

② SETTINGS BUTTON

⑧ DECREASE BUTTON

③ L SECTION TEMPERATURE

⑨ FAULT INDICATOR

④ L SECTION COMPRESSOR STATUS

⑩ INPUT VOLTAGE INDICATOR

⑤ R SECTION TEMPERATURE

⑪ CUT OFF VOLTAGE INDICATOR

⑥ R SECTION COMPRESSOR STATUS

# GETTING STARTED

Upon receiving your fridge / freezer, ensure you have all the included adaptors and they are intact. Place the unit in a dry area away from water, heat, or direct sunlight.

The cooling compartment features a dual zone section, with the display indicating the correct temperature of either compartments midpoint.

**WARNING:** before storing medication, confirm the fridge / freezers 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  $-10^{\circ}\text{C}$  ~  $55^{\circ}\text{C}$  and up to 90% humidity, the unit can operate continuously at a max angle of 30 degrees (figure 1).

(Figure 1)



Prolonged operation with an angle of 30 degrees 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 two different ways to power your fridge, each outlined below:

### 1. AC Adaptor

When you want to run the fridge from mains power, plug the AC 240V adaptor and cable into the fridge AC Input port located at the 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.

### 2. DC Adaptor

When you want to run the fridge from DC 12V / 24V power, plug the DC 12V / 24V adaptor and cable into the fridge DC 12V / 24V port located at the end of the fridge then connect the male cigarette socket to a female cigarette socket ensuring it is a suitable DC 12V / 24V power source.



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

# OPERATION

## POWER ON & OFF:



Long press the  button to turn the fridge on or off.

## TEMPERATURE SET:

Press the **SET** button and then use the  and  buttons to set the desired temperature of the left section, ranging from  $-18^{\circ}\text{C}$  ~  $10^{\circ}\text{C}$ . Press the **SET** button again to set the desired temperature of the right section. 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 for 5 seconds or until the temperature stops flashing.

## SETTINGS:

The setting menu has 2 different functionalities, details of each sub menu and their related functionalities are listed below. You can cycle through each sub menu with the **SET** button, and adjust them with the  and  buttons.

### 1. Temperature Unit

Select between Celsius ( $\text{C}^{\circ}$ ) and Fahrenheit ( $\text{F}^{\circ}$ ).

### 2. Battery Monitor

There are 3 voltage cut out settings.

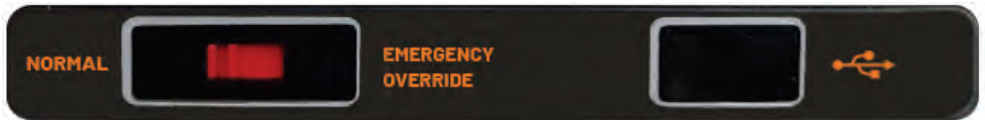


SETTING	12V		24V	
	Turn OFF	Turn ON	Turn OFF	Turn ON
Low (L)	<10.1V	>11.1V	<21.5V	>23V
Medium (M)	<11.4V	>12.2V	<24.1V	>25.3V
High (H)	<11.8V	>12.6V	<24.6V	>26.2V

- We suggest using the H setting.

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 (L / M / H).

## EMERGENCY OVERRIDE



In the event of a digital failure where you cannot set the temperature, switch to Emergency Override. This will allow the fridge / freezer to continue operating until you can contact the iTechworld Service Center.

**WARNING:** When using Emergency Override mode, the compressor will run continuously without allowing you to adjust the temperature. This means you will have a high power draw, which is not recommended for regular use.

## FAULT CODES:

Fault Code	Fault	Solution
E1	Low voltage protection activated	Isolate the fridge for 60 seconds, ensure the input voltage is above the cut out voltage.
E2	Condenser fan sensor fault	Isolate the fridge for 30 minutes, then reconnect the input source. If you are still experiencing issues, please contact the iTechworld service centre.
	Compressor pressure sensor fault	
E3	Compressor speed fault	Reduce the contents of the fridge and clean the vents, then move the fridge to an area with a lower ambient temperature. If you are still experiencing issues, please contact the iTechworld service centre.
E4	High temperature warning	

# 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 a AC 240V wall plug and a vehicles 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 or too low)
2. Inspect the power cables and all connections between the input power source and the fridge.
3. Confirm that both the input power source and the fridge are turned on.

## **If your fridge is performing poorly:**

1. Ensure the lid is being closed properly from both sides.
2. Check the input power source (ensure the voltage is neither too high or too low)
3. Confirm adequate ventilation around the fridge vents.
4. Ensure the temperature of the food being placed inside the fridge is not too high.
5. Verify the temperature setting is correct.
6. Verify the fridge is not in direct sunlight.

**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 Name	iFROST 95L Fridge / Freezer
Capacity	95L
Dimensions	903 x 532 x 467mm
Dimensions with Handles	974 x 532 x 467mm
Weight	27kg
Compressor	Huayi
Power Input	100V-220V~50Hz-60Hz 1.2A-0.6A
DC Input	Yes
AC Input	Yes
12V Average Amp Draw	1.5A
12V Max Amp Draw	5.6A
24A Average Amp Draw	0.8A
24V Max Amp Draw	2.8A
Insulation	Cyclopentane
Cooling Range	-18°C~10°C

The iFROST 95L Fridge / Freezer complies with CE, EMC 50498 and EESS standard including all Australian deviations.

## 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 cautious to avoid getting water into the seals or electrical components. After cleaning, dry the fridge entirely with a cloth. If you are storing the fridge for an extended period of time, leave the lid slightly open to prevent odours and mould.

- Do not use cleaning agents
- Do not use hard brushes
- Ensure all power input cables and the lithium battery(sold separately) have been removed
- Dry the fridge completely after washing

## SAFETY PRECAUTIONS

For safe operation and optimal performance, the iFROST 95L 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, 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, 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.

**WARNING:**

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

**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.

**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 electrical 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 a AC 220V – 240V power source, ensure the connection has an RCD. Failure to do so may result in a risk of electrical 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 cable around the fridge, or pulling the cable around sharp edges.

**REGULAR INSPECTIONS:**

Regularly check the fridge and all connections for signs of damage.



POWERED BY  
**iTECHWORLD**  
THE POWER EXPERT

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When it comes to energy storage and creation at iTechworld, we take pride in being one of the biggest names in the industry. Based in Australia, we are a family-owned and operated business. With many more innovative products on the horizon we are committed to constantly raising the bar to provide bigger and better benefits to all our customers Australia-wide.

Whether you're an avid camper, 4WD enthusiast, freedom seeker or camper, we've got your power needs covered. Escape the grid without compromise, minimise your downtime and travel with comfort with our large range of leading products at great prices.

**iTechworld. The Power Expert.**

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