

KICKASS

KICKASS 45L PORTABLE 12V FRIDGE FREEZER

USER MANUAL



KAF-45SZ



Please read all instructions and the safety section carefully before using your new KickAss refrigerator.

TABLE OF CONTENTS

| | |
|-----------------------------------|----|
| Introduction | 1 |
| Features | 1 |
| Important Safety Features | 2 |
| Care & Maintenance Instructions | 2 |
| Correct Disposal of this Product | 2 |
| Contents of the Box | 3 |
| Setup | 4 |
| Connecting the Fridge to Power | 4 |
| Control Panel | 4 |
| Control Panel Lights | 4 |
| Low Battery Protection Settings | 5 |
| Using the Control Panel | 5 |
| Bluetooth | 6 |
| Bluetooth App | 6 |
| Connecting to the Fridge | 6 |
| Using the App | 6 |
| Troubleshooting the Bluetooth App | 8 |
| Rotating the Lids | 9 |
| Emergency Override Switch | 11 |
| Troubleshooting | 11 |
| Error Codes | 12 |
| FCC Compliance Statement | 13 |
| Warranty Information | 14 |

Thank You For Purchasing A KickAss Fridge / Freezer

FEATURES

- » Digital electronic thermostat with LED temperature display.
- » Bluetooth so you can monitor and control your fridge from your smartphone.
- » Genuine Secop compressor so your fridge will always run reliably and quietly.
- » Efficient design that won't drain your battery.
- » Multi-voltage system (DC 12V / 24V) and (AC 100V / 240V).
- » Anderson-style connection.
- » Adjustable low voltage battery protection, reverse polarity protection and high temperature protection.
- » USB charging port so you can recharge your phone and devices.

Please read all the instructions and safety guidelines to ensure you get the most out of your new fridge.

IMPORTANT SAFETY SYMBOLS



Warning! - Safety Directive

Failure to observe this could lead to serious injury.



Caution! - Safety Directive

Failure to observe this could lead to injury or damage to the appliance.



Note! - Important Information

Failure to observe this may lead to damage to the appliance or reduced performance.

IMPORTANT SAFETY INSTRUCTIONS

- ⚠ WARNING:** Do not touch exposed cables.
- ⚠ WARNING:** When positioning the appliance, ensure the supply cord is not trapped or damaged.
- ⚠ WARNING:** Do not use or attempt to repair damaged power cords. If the AC power cord is damaged, it must be replaced by KickAss Products or an authorised service agent.
- ⚠ WARNING:** Do not keep multiple portable socket-outlets or portable power pack at the rear of the appliance.
- ⚠ CAUTION:** Any installation of DC power systems should be handled by a qualified professional, ensuring the source voltage is correct.
- ⚠ WARNING:** Do not place any electrical devices inside the refrigerator as moisture could harm these devices.
- ⚠ CAUTION:** Disconnect both DC and AC power supplies when cleaning or when not in use.
- ⚠ WARNING:** The refrigerator should only be maintained by a KickAss Products authorised repair centre. Improper or unauthorised maintenance work may void the warranty.
- ⚠ WARNING:** The fridge must not be used to store aerosols, flammable items, or corrosive or explosive materials.
- ⚠ WARNING:** Ensure the fridge is kept dry and all times - do not expose to rain or moisture.
- ⚠ WARNING:** Children should be supervised at all times around the appliance.
- ⚠ WARNING:** This appliance contains the fluorinated greenhouse gas R134a. Please refer to your local regulations regarding the correct way to dispose of this appliance due to the flammable insulation blowing gas it contains.
- ⚠ WARNING:** This appliance is not intended to be used in households or for other similar applications, such as:
 - Staff kitchen areas, offices, or other working environments.
 - Commercial hotels, motels and other residential environments.
 - Catering, commercial kitchens, or retail environments.

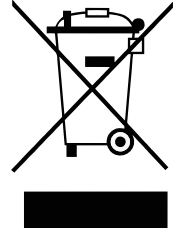
CARE AND MAINTENANCE INSTRUCTIONS

Clean the appliance inside and out with a damp cloth after every use. If it is dirty, use sodium bicarbonate dissolved in lukewarm water to clean the unit. Note:

- Never use abrasive products, detergents or soap. After washing, rinse with clean water and dry carefully. Do not leave the refrigerator off with food inside or lid closed.
- Never clean the appliance under running water.

CORRECT DISPOSAL OF THIS PRODUCT

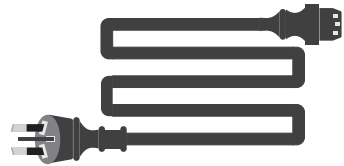
This symbol indicates that this product should not be disposed of with other household waste. To prevent harm to the environment and human health from unsafe disposal, recycle it responsibly or refer to your local regulations regarding the correct way to dispose of this appliance.



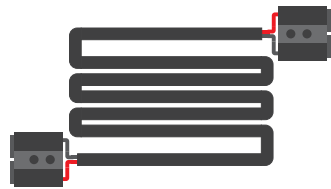
CONTENTS OF THE BOX



KickAss Fridge / Freezer - Main Unit



AC Power Cable



12V DC Anderson Style Power Cable



12V DC Anderson Style to Cigarette Plug Adapter

SETUP

CONNECTING THE FRIDGE TO POWER

Connecting to AC

To connect to AC Power, connect the supplied AC Plug to the input port on the fridge and switch on the power. Ensure the mains power supply is adequately protected with a residual current device.

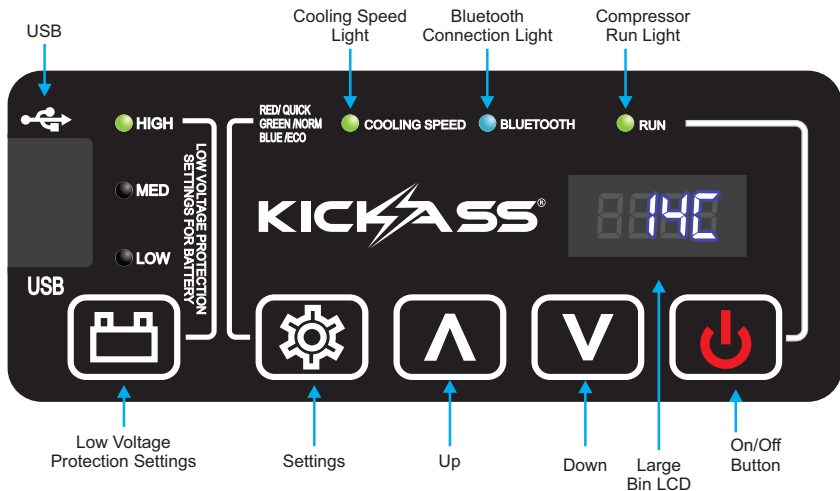
Connecting to DC

To connect to DC power, use the supplied 7ft Anderson to Anderson style extension lead, ensuring the end with the fuse is furthest away from the fridge. If using the Cigarette socket extension cable, ensure the wiring between the battery and socket is capable of handling up to 10A.

AC/DC Priority

With both AC and DC sockets connected, the internal power supply board will prioritise AC power over DC power, ensuring the battery powering the fridge is not discharged.

CONTROL PANEL



CONTROL PANEL LIGHTS

Cooling Speed Light: The cooling speed light will glow red if set on quick, green if set on normal and blue if set on eco. The cooling speed controls the compressor run speed.

Bluetooth Light: The Bluetooth light will glow blue when a Bluetooth connection is established.

Run Light: The run light indicates when the compressor is running. If power is connected, the light will glow red. If the compressor is running, the light will glow green.

Battery Protection Light: The selected battery protection setting light will glow green.
















LOW BATTERY PROTECTION SETTINGS

The fridge is equipped with three battery protection settings; high, medium and low. The below settings should be set for the specific battery type being used.

Note: With the compressor running, minor voltage drop may occur, and you can expect to lose 0.3-0.5V depending on the wiring used to connect your battery to the fridge. For some battery types, voltage drop may occur when a load is applied, which can also affect the reading and cutout voltage of the fridge.

| DC SOURCE | | LOW BATTERY PROTECTION | MEDIUM BATTERY PROTECTION | HIGH BATTERY PROTECTION |
|-----------|-----------------|------------------------|---------------------------|-------------------------|
| 12V | Cut Out Voltage | 10.1V +/-0.3V | 11.4V +/-0.3V | 11.8V +/-0.3V |
| | Cut In Voltage | 11.4V +/-0.3V | 12.2V +/-0.3V | 12.6V +/-0.3V |
| 24V | Cut Out Voltage | 21.5V +/-0.3V | 24.1V +/-0.3V | 24.6V +/-0.3V |
| | Cut In Voltage | 23.0V +/-0.3V | 25.3V +/-0.3V | 26.2V +/-0.3V |

USING THE CONTROL PANEL

| | |
|--------------------------------------|--|
| TURN FRIDGE ON OR OFF | When fridge is off, hold  power button for 3 seconds to turn on. When fridge is on, hold  power button for 3 seconds to turn off. |
| TURNING ONE COMPARTMENT ON OR OFF | If only one compartment is required, each bin can be individually isolated. To turn the small compartment of the fridge on/off, press  and  simultaneously for 3 seconds. To turn the large compartment of the fridge on/off, press  and  simultaneously for 3 seconds or until the large bin display shows OFF. |
| SETTING THE TEMPERATURE UNITS | To change the temperature display between Fahrenheit and Celsius, press  twice times until only the unit (C or F) is flashing. Select Fahrenheit or Celsius using the  and  buttons. Wait until the LCD screen stops flashing and the setting will be saved. |
| SETTING COMPRESSOR SPEED | To change the compressor speed between quick, normal and eco, press the  4 times simultaneously until both displays are flashing with the current selection. Navigate through the options using the  and  buttons. Wait until the LCD screen stops flashing and the setting will be saved. |
| SETTING THE VOLTAGE PROTECTION LEVEL | To set the voltage protection level, press and hold the  button for 3 seconds or until the light indicator moves to the next setting. |
| VIEWING THE BATTERY VOLTAGE | To display the voltage of the battery connected, press the  button. Note: If the compressor is running, indicated by the run light glowing green, the voltage displayed may be misrepresented by up to 0.5V due to voltage drop between the battery and the control board. |
| VIEWING THE FRIDGE'S BLUETOOTH CODE | To view the fridge's Bluetooth code, press the  button to display a 4 digit number. |

BLUETOOTH CONNECTION

BLUETOOTH APP

To get started please download the KA Products Main App from the Google Play Store or the Apple iTunes Store. If the App is already downloaded on your device, you must ensure that any updates to the App are installed prior to connecting.



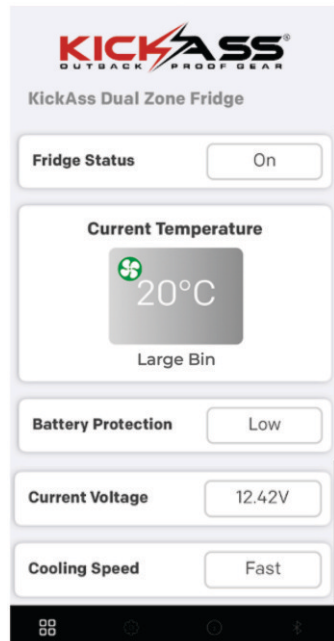
CONNECTING TO THE FRIDGE

On the App, find the device with the ID KickAss00xxxx that matches the fridge's device ID. This can be found by pressing the **V** button on the control board. Clicking on the device should prompt the user to enter a password. The password for the fridge is "00xxxx" where xxxx corresponds to the device ID. Once connected, the fridge will pair automatically.

USING THE APP

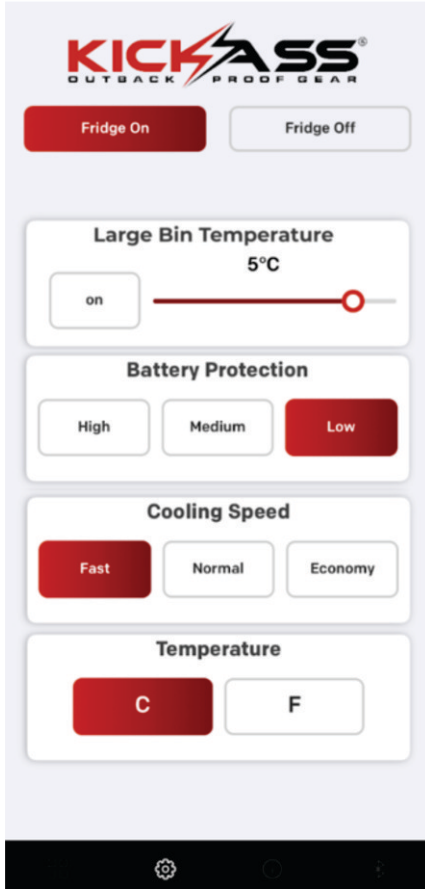
Home Page

The home page can be used to view the current status, battery protection and cooling speed settings of the fridge. The voltage of the battery can also be viewed via the App. NOTE: If the compressor is running, the voltage displayed may be misrepresented by up to 0.5V due to voltage drop.



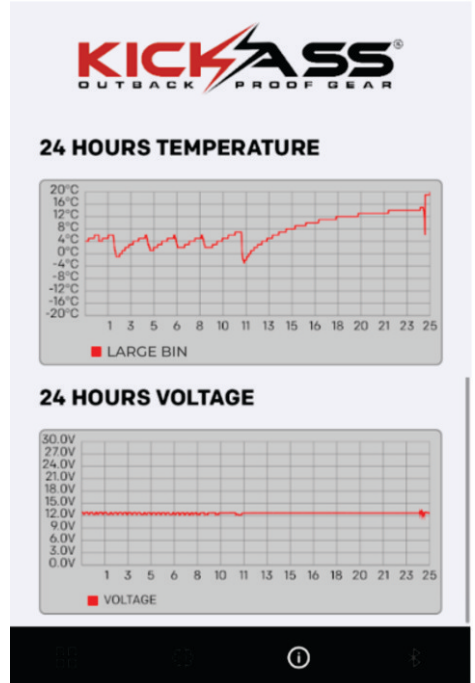
Settings Page

The settings page can be used to set the temperature. It can also be used to adjust battery protection, cooling speed and change the unit of temperature display.



Graphical Display Page

The graphical display page can be used to map the 24 hour temperature as well as the 24 hour voltage of the battery being used.



TROUBLESHOOTING THE BLUETOOTH APP

I cannot see or connect to the Bluetooth app.

- Ensure Bluetooth is activated on your device.
- Make sure you are in range of the fridge (normally around 30 feet).
- Make sure you are using the correct verification code for the Bluetooth App.
- Try turning the Bluetooth off and on.

If the above does not work, try the following:

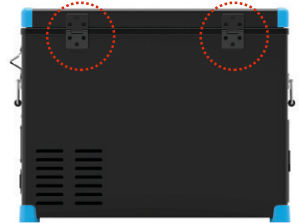
- Ensure you are using the latest version of the App, and that there are no outstanding updates.
- Uninstall the App, and close any other apps running in the background.
- Turn both the fridge and the phone off for a couple of minutes.
- Reinstall the App.
- If you're still having problems, contact KickAss.

ROTATING THE LID

The lids can be rotated so that they can be opened from either side of the fridge. To do this, follow these instructions:



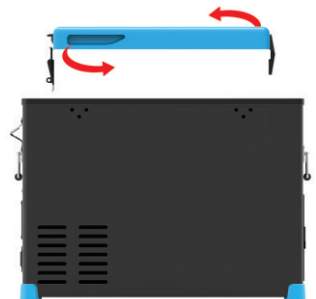
Unbolt the hinges and the latches from the base of the fridge and remove the screws covering the blank holes on either side.



Lift lid away from fridge base.

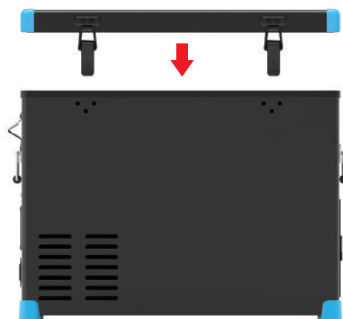


Rotate the lid and match the latches & hinges to their respective threaded holes. If using the case, the lid covers will also need to be rotated with the lids.





Position lid in place.



Screw the hinge and latches in place and return the screws covering the blank holes.



EMERGENCY OVERRIDE SWITCH

The emergency override switch can be used in the event of an electronic control or display board failure. For normal operation the switch should be left in the OFF position. If an electronic failure occurs, slide the switch to the ON position. In this case, the fridge will run at full cooling capacity.



OVERVERRIDE SWITCH

TROUBLESHOOTING

The appliance is not turning on

- Hold down the ON button.
- Check the power supply is sufficient.
- Check the cable and Anderson style plug have a good connection.
- If using a DC connection, attempt to plug in an AC connection.
- If using an AC connection, attempt to plug in a DC connection.
- Check to see whether the fuse in either the Anderson to Anderson connection or the Cigarette socket needs replacing.

The food inside is frozen

- The temperature of your fridge is too low. Check the temperature on the control board, and remember that the actual temperature of the fridge may differ by +/- 3 degrees.
- Ensure the Override Switch is in the OFF position.

The fridge is not staying cool

- The temperature setting is inappropriate.
- The lid is unlocked/or open.
- The lid seal is broken.
- There is insufficient ventilation around the fridge.
- Too much warm or hot food has been placed inside the refrigerator, and it may take longer than usual to cool down.
- The ambient temperature is too high or there is a heat source near the fridge.

The sound of water can be heard from inside the unit

- This is normal, due to the flow of the refrigerant.

The fridge is making an unusual noise

- Ensure the refrigerator is on a level surface.
- There may be loose components inside the fridge - if this happens, contact KickAss.

ERROR CODES

| ERROR CODE | Error type as displayed on control board |
|------------|---|
| ERROR 1 | Battery protection cut-out. <ul style="list-style-type: none">• Please check the source voltage to ensure it is above the cut out. Try lowering the voltage cut out setting to LOW.• The cables used may be insufficient - try with bigger or better quality cables.• Try a different power source. |
| ERROR 2 | Fan is drawing too many Amps (more than 1 Amp). <ul style="list-style-type: none">• Disconnect the fridge for 30 minutes and reconnect.• Attempt to plug it in with both AC and DC power sources. If this does not resolve issue, contact KickAss Products. |
| ERROR 3 | Possible electronic box or compressor fault. <ul style="list-style-type: none">• Unplug for 10 minutes.• Attempt to plug it in with both AC and DC power sources. If this does not resolve issue, contact KickAss Products. |
| ERROR 4 | Compressor speed is too low. <ul style="list-style-type: none">• Unplug for 10 minutes• Move unit to a lower ambient temperature• Attempt to plug it in with both AC and DC power sources If this does not resolve issue, Contact KickAss Products |
| ERROR 5 | Ambient temperature too high. <ul style="list-style-type: none">• Clean vents/ensure clear air flow. |
| ERROR 6 | Thermostat open circuit fault. <ul style="list-style-type: none">• The control board is not detecting the thermostat. There may be a loose wire, or the thermostat may have failed. Contact KickAss Products to diagnose the fault. |
| ERROR 7 | Thermostat short circuit fault. <ul style="list-style-type: none">• The thermostat has likely failed, contact KickAss Products. |

FCC COMPLIANCE STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this product not authorized by KickAss could void the electromagnetic compatibility (EMC) and wireless compliance and negate your authority to operate the product.

This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables between system components to reduce the possibility of causing interference to radios, television sets, and other electronic devices.

Exposure to radio frequency energy. The radiated output power of this device meets the limits of FCC/IC radio frequency exposure limits. This device should be operated with a minimum separation distance of 20 cm (8 inches) between the equipment and a person's body.

WARRANTY INFORMATION

Warranty Period:

KickAss Products Pty Ltd (KickAss) 39 Iris Place, Acacia Ridge, QLD 4110, offers a 60 month warranty from date of purchase against manufacturing defects.

Warranty Inclusions:

Under ordinary usage conditions, this warranty covers any defect in design or manufacture which results in our product failing to perform as described in our advertising or literature (i.e. product manuals).

Where we are at fault during the warranty period, we will either repair or replace the product (or part of the product) at our discretion. When a product is repaired or replaced under this warranty, the original warranty period is not renewed or extended.

This warranty is provided in addition to your other rights and remedies under the Australian Consumer Law and does not exclude, restrict, modify, limit or override your rights under the Australian Consumer Law.

How to Claim:

To make a claim visit supportportal.kickassproducts.com.au, or email warranty@kickassproducts.com.au. Please provide your proof of purchase (i.e. sales receipt) to assist with your warranty claim.

Once we approve your warranty claim, we will arrange (at our cost) return shipping of the faulty product to an assessment facility of our choice. Once we have determined the cause of the defect, we will contact you with the outcome of our assessment and advise whether the faulty product will be repaired or replaced.

Australian Consumer Law:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Warranty Exclusions:

Our warranty is non-transferable and is only offered to the original purchaser of our product.

Our warranty does not apply to:

1. damage caused by any improper use of our product(s);
2. damage caused by faulty installation or modification made during installation;
3. damage caused by mould, insects, animals, misuse, incorrect operation, adverse weather, accidents and fair wear and tear;
4. damage caused by exposure to excessive sunlight;
5. costs, losses or charges:
6. of removing and reinstalling the product;
7. directly or indirectly associated with the product failing to operate.
8. commercial use of KickAss products by government organisations or commercial fleet applications;
9. KickAss Products that are on-sold by the customer or exported for use outside of Australia.