OWNERS MANUAL

SINGLE ZONE LI RECHARGEABLE FRIDGE/FREEZERS

10001044/10001045

www.oztrail.com.au

CONTENTS

GENERAL INFO & SAFETY INSTRUCTIONS

Read this manual thoroughly before first use, even if you are familiar with this type of product. The safety precautions detailed in this manual reduce the risk of fire, electric shock and injury when correctly adhered to. Keep the manual in a safe place for future reference, along with purchase receipt and carton. If applicable, pass these instructions on to the next owner of the appliance.

NOTE: Intended use: This is a portable product, designed for private use. It is exclusively designed for use in cars, caravans and other vehicles including mobile homes, campervans, rail cars and boats. It is designed to cool food and beverages and to be set up in dry, weather protected areas. It is not intended for stationary extended use e.g. a second fridge at home. This appliance is suitable for camping use.

Always follow basic safety precautions and accident prevention measures when using an electrical appliance, including the following:

ELECTRICAL SAFETY & CORD HANDLING

- **Correct voltage:** Make sure your local outlet voltage and circuit frequency corresponds to the voltage indicated on the appliance rating label.
- **Safe connection:** Insert the plug firmly into a properly earthed AC mains or 12V DC socket. Do not alter the plug.
- **Protect from moisture:** To protect against electric shock, do not immerse the cable, plug or the appliance itself in water or other liquid. Ensure your hands are dry before handling the plug or switching on the appliance. Do not use it on wet surfaces.
- **Protect the power cable.** Do not kink or damage the power cable. Do not wrap it around the appliance. Do not pull the unit by the cable. Do not use the cable as a handle, close a door on the cable or pull the cable around sharp edges or corners. Keep the cable away from heated surfaces.
- **Never touch uninsulated cables with bare hands.** This applies especially to handling AC cables.
- **For installation in boats:** If the device is AC mains operated, it is important that the system is protected by a fuse and an earth leakage protection device.

NOTE: Installation of AC in boats should be carried out by a qualified electrician.

- **Always ensure that the correct voltage** is applied to the fridge/freezer. The voltage is stated on the fridge/freezer's data plate.
- **Never obstruct vents** to the fridge/freezer's compressor.
- **Defrost the fridge/freezer** on a regular basis.
- **Never use hard or sharp implements** to remove ice from the cooling compartment.
- **Never use abrasive or solvent** based materials when cleaning the cooling compartment.
- **Do not use any electrical appliances** inside the cooling compartment.

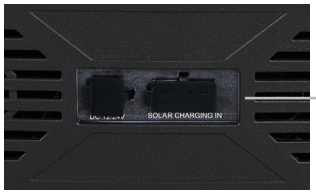
NOTE: This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

- **Do not** expose to rain.
- Prevent or minimise exposure to dust.
- This cooling device is not suitable for transporting caustic materials or materials containing solvents.
- **Do not** place the fridge / freezer near naked flames or other heat sources (heaters, direct sunlight, gas ovens etc).

PRODUCT OVERVIEW

SINGLE ZONE FRIDGE/FREEZER

1. Internal Basket
2. Control Panel
3. Single Lid
4. Lid Latches
5. Carry Handle
6. Air Flow Vent
7. DC Input (use your AC/DC adaptor or DC Charger to power and charge the fridge)
8. Solar Input (Can only be used for charging by solar will not work to charge by 12V. No Regulator required)
9. AC Power Cable (Page 7.)
10. DC Power Cable (Page 7.)
11. Battery Compartment Access



LITHIUM BATTERY PACK

12. On/Off Switch Button

GETTING STARTED

INSTALLATION

After unpacking the fridge/freezer check that no parts are missing. Place the unit in a dry place which is protected against splashing water. Do not place directly adjacent to sources of direct sunlight, gas ovens, hot water, pipes or under the blazing sun.

It is strongly recommended that you charge your new fridge battery overnight as soon as possible. It is important that your appliance is installed and operated in accordance with these instructions to guarantee its performance, efficiency and operation.

Fig. 1

APPLICATION & OPERATIVE COOLING RANGE

The cooling compartment has varying temperature zones. The values indicated on the digital display are related to the middle of the cooler.

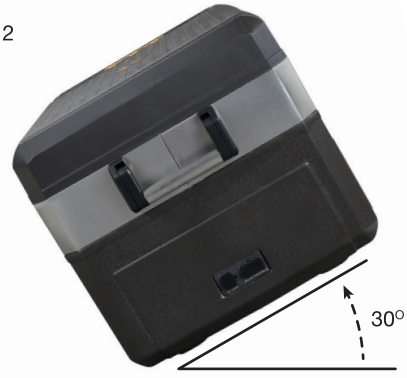
The single zone fridge/freezer is designed to either refrigerate or freeze food.

If you wish to refrigerate medicines, first check to ensure the fridge/freezer's cooling capacity meets the demands of the respective medicines.

The fridge/freezer is designed to operate in ambient temperatures between -10° and +55° C in a maximum air humidity of 90% and can operate continuously at an angle of 30° maximum (Fig. 2).

Note: The normal operation of the appliance requires heat to be radiated away from the condenser located at the end of the cabinet near the controls. Adequate airflow is required around the compressor at all times (Fig. 1).

Fig. 2



OPERATING YOUR FRIDGE/FREEZER

POWER REQUIREMENTS

- The fridge/freezer is designed to operate on DC voltage or the included lithium-ion battery pack (up to 32 hours (37L) or 26 hours (55L) run time)
- The fridge/freezer comes with the battery turned off out of the box. Please sure you turn the battery on then turn on the fridge at the control panel.
- Please ensure the fridge battery is charged straight away. If required, the cooler can operate on AC power source only and the battery can be removed.
- There are multiple ways to charge the fridge battery. This includes charging the battery inside of the fridge or with the battery removed.

  Battery Inside Fridge

  When the battery is inside of the fridge it can be charged by the AC/DC Adaptor/ DC Car Charger or Solar Input. (No Regulator required)

  The battery will only charge at a rate of 3.6A (46W) Per hour and will take up to 8 hours to charge fully.

  When the battery is charging the LED will turn Red on the battery pack, once fully charged the LED will change to green. The LED screen on the fridge will show the fridge voltage and battery capacity

  Battery Removed From Fridge

  When the battery is removed from the fridge it can be charged 2 ways:

  USB-C directly into the top of the Battery pack – this will charge at 60W max and take up to 6-7 hours.

  Anderson charging into the bottom of the battery pack – this will charge at 88W Max and take 4-5 hours to charge. If you plan to charge the battery directly from a solar panel you will need to use a regulator.
- If the fridge/freezer is operating when the vehicle ignition is switched OFF, the fridge/freezer will automatically switch over to be powered by the integrated lithium-ion battery.

OPERATING WITH 12/24V DC

- Plug the 12V/24V DC power cable into the DC power socket (Fig 3.) on the end of the fridge/freezer and then connect to the vehicle cigarette lighter socket or suitable 12V or 24V DC power source.
- The fridge/freezer will need to be turned on at the control panel.
- The display will automatically show the current internal cooler temperature, battery monitor setting, compressor speed setting, operating voltage and integrated battery charge level.
- For optimum performance and efficiency, it is important that the fridge/freezer has a **reliable DC power source available**. Direct connection to the battery is recommended and reduces the risk of voltage to the appliance dropping. Make sure the connection is fused.
- Use only the DC power cable supplied with the fridge/freezer.

Important: If a DC extension cable is required we recommend use of a 6mm diameter (AWG11) 4.58mm^2 Twin Sheath Two Core cable with direct connection to the positive and negative battery terminals with 15A inline fuse protection.

Fig. 3

OPERATING YOUR FRIDGE/FREEZER

12/24V DC POWER REQUIREMENTS

If your fridge/freezer is cutting out prematurely, it could be due to:

1. The battery voltage protection being set too high on the battery monitor (refer to page 9/10).
2. DC power cable and/or connections are not suitable to carry the required current. Check the power cable and all connections and adjust the battery monitor on the control panel if required.
3. Included lithium-ion battery pack voltage being below set voltage monitor setting.

The fridge/freezer is equipped with a multilevel battery monitor that protects your vehicle battery and the fridge/freezer lithium-ion battery, against excessive discharging when the fridge/freezer is connected to 12V or 24V DC power source.

Important: When using the fridge/freezer with DC power supply, or when running fridge off the battery pack, we recommend setting the battery monitor to **LOW** if the fridge/freezer is not running off a crank battery.

- Your fridge/freezer is equipped with reverse polarity protection. It protects your fridge/freezer against reverse battery connection and short circuit.
- As a protection for your battery, the fridge/freezer switches OFF automatically if the power source voltage is insufficient. The fridge/freezer will only restart when voltage reaches cut in level in either the DC power source or the battery pack.

Note: It is important that the correct cable size and gauge is used for the installation of the DC supply as over distance the voltage can decrease if the incorrect cable size and gauge is being used.

- Always consult a qualified automotive electrician when using a DC extension cable.

Note: It is recommended to keep the battery voltage above 11.5V in the integrated power pack to ensure maximum life span.

AC/DC Power Adaptor

DC Power Cable
(Can be Cigarette connection or Anderson plug connection by seperating the two anderson plugs)

OPERATING WITH 240V AC

- Plug the 240V AC power adaptor and cable into the fridge DC 12V/24V power socket (Fig. 3) on the end of the fridge/freezer and then connect to a suitable 240V AC power source.
- The fridge/freezer will need to be turned on at the control panel.
- The display will automatically show the current internal cooler temperature, built in battery voltage and level, battery monitor setting and compressor speed setting.

CAUTION: Do not touch cables, plugs or switches with wet hands or when any of your body is in contact with water! If you operate your fridge/freezer onboard a boat by means of a shore connection to a 220-240V AC power source, the power connection must include an earth leakage RCD residual current device.

TEMP CONTROL/GENERAL OPERATION

When your fridge/freezer is first connected to the DC power input, after 10 seconds the appliance will display a charging symbol on the LCD screen. Turn on the fridge/freezer by pressing the “On/Off” button. It will display the current cabinet temperature, battery monitor, compressor setting as well as the current input voltage and internal battery state of charge.

- The temperature controller provides the ability to set the desired temperature level and display the current cabinet temperature. The electronic controller has been programmed to maintain an average of the set temperature.

- The compressor will start up when the internal cabinet temperature increases 0.5 to 1.5 degrees above the set temperature and will run until the temperature is 0.5 to 1.5 degrees below the set temperature.

BATTERY DISPLAY
Voltage is measured at the input connection on the side of the appliance.

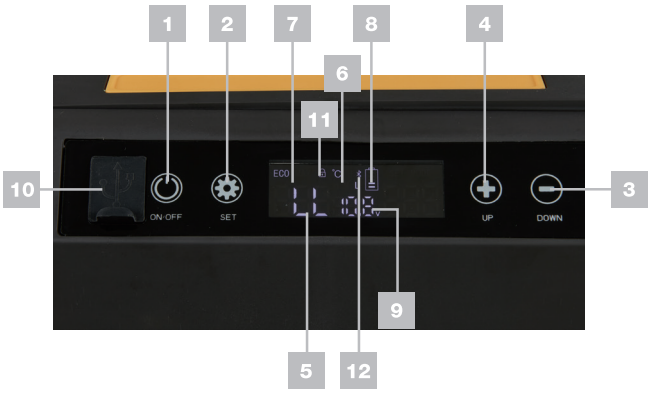
Battery Display	12V
	9.6V or less
	9.6V to 10.4V
	10.5V to 11.0V
	11.1V to 11.5V
	11.6V to 11.9V
	12V or above

***Values are for reference only and may be subject to change depending on conditions and power supply.**

NOTE: It is recommended to charge the internal lithium-ion battery pack on a monthly basis, especially if the fridge is going to be in storage for a length of time. This will ensure maximum battery cycle life.

SINGLE ZONE OPERATION

1. Power On/Off Button
2. Setting Button
3. Temp Decrease Button
4. Temp Increase Button
5. Temp Display
6. Battery Monitor Display
7. Compressor Speed Display
8. Integrated Li Battery Level
9. Input Voltage Display
10. USB C and USB Outlets
11. Auto Lock Symbol
12. Wireless Connection Icon



AUTO LOCKING DISPLAY

1. This control panel has an auto lock after 30 seconds this prevents the settings being accidentally changed. The screen will also dim after 30 seconds.
2. To unlock the display hold the setting button for 3 seconds.

POWER OFF AND ON

1. Press power button for 2 seconds and fridge will go into standby mode then switch off after 5 seconds.
2. Press the power button and fridge will re-start with previously selected settings.

COOLER TEMPERATURE SETTING

1. Adjust temperature by pressing the + button to increase temp and the - button to decrease temp.

Note: Maximum temperature settings are from +24°C to -22°C.

2. Temperature display will flash when selecting temperature and return to solid display when showing the actual internal temperature.

SETTINGS

1. Press the “Setting” button once. Then press again to cycle through the compressor speed, battery monitor and temperature units °C.
2. Each setting will flash when selected. Use the “ + /-” buttons to adjust the setting.
3. Compressor Speed: Max / Eco
4. Temperature units: °C / F
5. Battery Monitor: Low / Medium / High

BATTERY MONITOR – SETTING

12V DC Input	Cut Out	Cut In
HIGH	11.1V	12.4V
MEDIUM	10.4V	11.7V
LOW	9.6V	11.2V

24V DC Input	Cut Out	Cut In
HIGH	24.3V	25.7V
MEDIUM	22.8V	24.2V
LOW	21.4V	23.0V

USING WITH SOLAR PANEL OR GENERATOR

USING WITH SOLAR PANELS

- The power consumption and efficiency of your fridge/freezer makes it ideal to be used in conjunction with solar panels to provide recharging of the DC power source. Solar panels will provide charge into the battery during the daylight hours even while the appliance is operating.
- As the output from solar panels changes depending on the level of sunlight and intensity, your fridge/freezer charging efficiency will vary depending on conditions and solar panel output.
- The Fridge can be powered by solar panels through the Anderson connection on either end of the fridge. We recommend 120W panels and above to power the unit and charge.
- No Regulator is required from the solar panel. Please connect the anderson cable directly to the fridge
- The Solar panel can run your fridge and charge the battery at the same time – this typically requires an output of over 5 Amp. Please note the battery will only charge at a maximum of 3.6A (46W)
- If the weather becomes cloudy and the charge rate from the solar panel drops the fridge will stop charging. The fridge will automatically be powered by the battery so it will continue to Run.
- When the solar panel is charging the fridge the LED on the battery will turn red and show that its charging, If the LED is green means the fridge isn't getting enough power to run and charge the fridge.
- Solar panels can also be used to run the fridge when there is no battery inserted. When the power input is too low the fridge will turn off.

USING PORTABLE GENERATORS

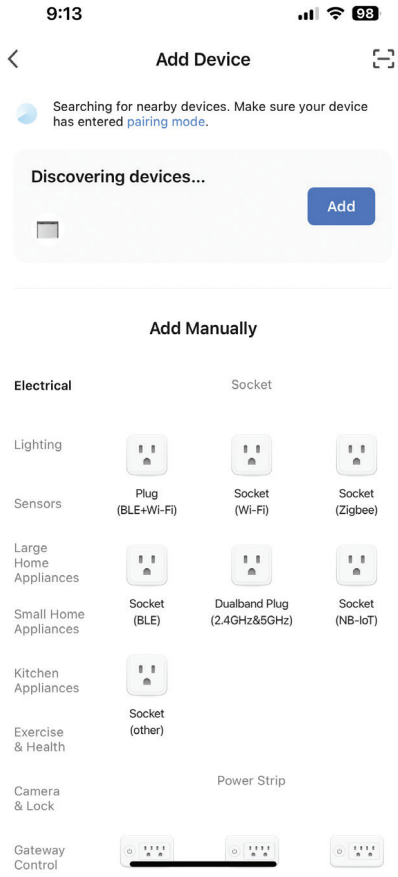
- It is important that the correct generator size is used with your fridge/freezer. An incorrect generator or voltage output may result in reduced performance or damage to your fridge/freezer which may void your appliance warranty.
- If connecting directly to an AC generator, ensure that **only a digital or inverter type generator** is used. These provide a more reliable and constant 240V AC output power source and are specifically designed for use with electronic and other power sensitive appliances.

For use with generator you must only use the supplied AC adaptor.

- Most generators are fitted with a DC power output socket - DO NOT connect your fridge directly to the DC power output of the generator as this will result in damage to your fridge/freezer and void warranty.

OPERATING WIRELESS CONNECTION

To operate the OZtrail fridge/freezer via wireless connection you will first need to download the Smart Life – Smart Living APP via APPSTORE or GOOGLE PLAYSTORE or scan the QR code by the phone.



STEP 1
- Download the Smart Life APP, then install it.

STEP 2
- Connect the OZtrail fridge/freezer by the DC or AC power cord, and turn the fridge/freezer on.

STEP 3
- Turn on Bluetooth on your phone.

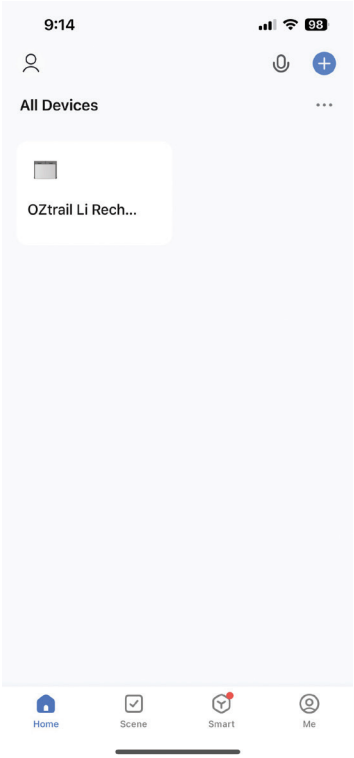
STEP 4
- Open the APP, accept the User Agreement/ Privacy Statement and follow the steps to sign up to the APP.

STEP 5
- Once signed up, the below screen will appear. In 'Discovering devices', click 'Add' to add the fridge/freezer.

OPERATING WIRELESS CONNECTION

STEP 6

- The below screen will appear, click on the device. The device name is OZtrail Li Rechargeable fridge/freezer



STEP 7

Start using the Wireless APP with your OZtrail fridge/freezer. You will be able to access the following features via the APP -

1. To adjust the settings, click the Lock icon to unlock. It will automatically lock again after 30 seconds of no activity.
2. Check/change temperature setting or temperature unit setting
3. Check/change battery monitor setting
4. Check/change compressor speed setting
5. Turn on/off the fridge/freezer
6. Paired icon - you must be within wireless range of the fridge/freezer to stay connected

TIPS, MAINTENANCE & SERVICE

TIPS AND SUGGESTIONS

- Fresh and frozen foods should not be stored right beside each other in the cabinet. Doing so may cause fresh food to freeze and/or spoil.
- When the appliance is being set at 0° or lower temperatures, do not store glass bottles or liquids such as milk, juices or soft drinks in the unit as these may freeze and shatter, leak or burst.
- Items such as fruit and vegetables should be stored closer to the top of the cabinet as this area is normally slightly warmer. This will reduce the risk of spoiling and ensures that damage is not caused by being crushed by heavier items.
- To improve the efficiency of your fridge/freezer it is better to have the cabinet as full as possible at all times. A full cabinet will provide lower power consumption over 24 hours than a half empty one. When the cabinet is full there is little air space between the goods so the cold air is trapped, but when there is lots of air the coldness cannot be captured and held. On a trip it is a good idea to replace finished products with bottles of water or similar. This will fill the empty spaces and allow the coldness to remain within the cabinet.
- Frequent door opening will allow warm air to enter the cabinet. Keep the number of times you open the door to a minimum where possible.
- When located in the rear of a car or trailer, it is recommended that the appliance be kept away from direct sunlight to reduce the risk of increased heat. It should also be provided with suitable ventilation to guarantee efficient power consumption and performance. You must remember that when a vehicle is parked in the sun that on a day where the ambient temperature is +30°C, the interior of the vehicle can reach +55°C.

MAINTENANCE & SERVICE

Your fridge/freezer will be delivered cleaned from the factory – you nevertheless should clean prior to initial use. Use a cloth which has been slightly moistened with lukewarm water. Pay attention that no water drops into the seals and possibly damages the electronics. Dry off the fridge/freezer with a cloth after cleaning. Clean your fridge/freezer periodically and as soon as it is dirty.

ATTENTION:

- **DO NOT** use solvents or agents with sand or acid parts for cleaning your fridge/freezer.
- **DO NOT** use brushes, graters or hard sharp tools to clean your fridge/freezer.
- Before cleaning, the power cable should be disconnected and the fridge/freezer switched OFF.
- Clean the fridge/freezer inside and out with a damp cloth. For stubborn dirt, use some sodium bicarbonate dissolved in lukewarm water. It is recommended to wipe down the stainless steel surfaces with warm soapy water after exposure to salt water
- When storing your fridge/freezer for a long period of time, **DO NOT** fully close the lid. This will prevent mould and odours.

For additional queries, service and maintenance please contact our After Sales Support 1300 362 921. They will provide you with expert advice on further information you may require.

DISPOSAL

When it comes to the end of its working life, your fridge/freezer should be disposed of responsibly to ensure that it does not contaminate the environment. Contact your local council for advice on the disposal of this unit.

TROUBLESHOOTING

Issue	Possible Solutions
The fridge/freezer will not turn on	Check the unit is switched ON – Press the power button to turn on
	Ensure battery is turned on
	Check the power source (voltage may be too low)
	Check the power cable and all connections from the power source to fridge/freezer
The contents of the fridge are freezing	The temperature has been set too low, therefore increase the temperature setting
Poor refrigeration performance	Too much food has been put inside the unit
	Temperature of the food put inside the fridge is too high
	Ensure lid is closed properly
	Ensure power source has sufficient voltage
	There is poor ventilation around the fridge
	Ambient temperature is very high
	Temperature is not set correctly
There is a “water flow” type of noise from inside the unit	This is normal, caused by the flow of refrigerant
There is a noise from the unit	Ensure unit is on a flat level surface
	Check for vibrations in surrounding objects
Fridge/freezer does not work and display does not illuminate	There is no voltage present in the 12V/24V cigarette lighter socket in your vehicle. The ignition must be switched ON in most vehicles to apply current to the cigarette lighter socket
	No voltage present in the AC voltage socket. Try using another plug socket
	The 240V AC adaptor is defective. This can be replaced by contacting after sales support on 1300 362 921
Fridge/freezer does not work and display does not illuminate when operating from the 12V/24V cigarette lighter socket with ignition switched ON.	The cigarette lighter socket fuse in vehicle is defective and must be replaced
	The cigarette lighter socket in vehicle must be cleaned or the plug has not been assembled correctly
The display shows an error message and the fridge/freezer does not cool	Connected to DC power source, the fridge/freezer has switched off. This may be due to low voltage. Check Battery Monitor setting is on LOW. Re-start vehicle to increase battery voltage level. Test and charge battery
	The fridge/freezer has switched off due to an internal fault. Contact After Sales Support 1300 362 921

ERROR CODE INFORMATION

Error Code	Possible Cause	Solution
E1	Low voltage to fridge	DC - Increase voltage of DC power source/Check all connections/Check battery monitor setting
		AC - Replace defective 240V AC Power adaptor
E2	Condensor fan faulty	Contact After Sales Support 1300 362 921 to arrange repair
E3	Compressor over pressure	Disconnect power to fridge for 20 minutes and attempt re-start
E4	Compressor not kicking in	Contact After Sales Support 1300 362 921 to arrange repair
E5	Over temperature of the compressor & electronics	Disconnect power to fridge for 20 minutes and attempt re-start
E6	Temperature sensor faulty	Contact After Sales Support 1300 362 921 to arrange repair

SPECIFICATIONS

Model	10001044	10001045
Capacity	37lt Single Zone	55lt Single Zone
Weight	22.6kg (including battery)	25.6kg (including bettery)
Dimensions	712mm W x 444mm D x 451mm H	816mm W x 484mm D x 453mm H
Compressor	LG	LG
Current Draw	4.4A MAX (12VDC), 2.2A MAX (24VDC) - 0.8AH Average Consumption	5.0A MAX (12VDC), 2.5A MAX (24VDC) - 1.0AH Average Consumption
Cooling Range	+24°C to -22°C	+24°C to -22°C
Power Input	52W	60w
Insulation	PU Foam	PU Foam
Material	PP+HIPS+HDPE+ABS+SUS304+SGCC	PP+HIPS+HDPE+ABS+SUS304+SGCC
Lithium-ion Power Pack	ABS Casing, 30Ah Capacity 12.8V MAX SOC	ABS Casing, 30Ah Capacity 12.8V MAX SOC

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WWW.OZTRAIL.COM.AU

WARRANTY

Adventure Trading Australia P/L warrants this product against defects for a period of **three years** from the date of purchase. The integrated lithium-ion power pack has a warranty of **one year.** Adventure Trading Australia P/L will repair or replace the product, at its discretion, should a warrantable defect arise within the warranty period. If the exact model is unavailable a model of equivalent nature will be substituted at our discretion. This warranty excludes faults and failures caused by improper use and abuse; fair wear and tear; or failure to follow instructions regarding care and maintenance. Products used for a commercial nature are not covered by this warranty against defects. A warranty may be claimed by returning the product to its place of purchase, with a detailed proof-of-purchase clearly showing the date and detail of the purchase or contacting Adventure Trading Australia P/L directly.

You can contact Adventure Trading Australia P/L Customer Service by phone on 1300 362 921, in writing: PO Box 1110, Eagle Farm QLD 4009. The benefits under Adventure Trading Australia P/L warranty against defects are in addition to other rights and remedies under law in relation to goods

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 for 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.

For more detailed information and an explanation of these terms see www.oztrail.com.au/warranty or email warranty@adventureoperations.com

WARRANTY - For details see www.oztrail.com.au/warranty

Designed by:
Adventure Trading Australia Pty Ltd
71 Charles Ulm Place,
Eagle Farm, QLD 4009
AUSTRALIA

Made in China