



**TRUSTED SINCE 1941**

# ROVER™ 500

## PORTABLE POWER STATION



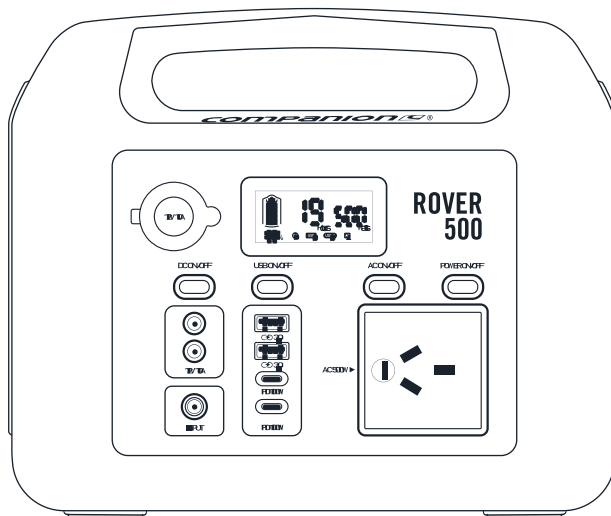
# OWNERS MANUAL

**Model No. 10001608**



## BEFORE USE

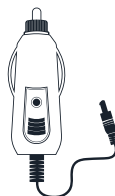
- The specifications and pictures in this manual are for reference only.
- When using for the first time, fully charge the product (at least 10 hours). When the battery bars no longer flash, this indicates that the battery is fully charged.



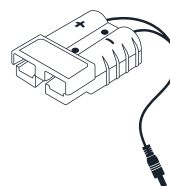
ROVER™ 500 LITHIUM POWER STATION



240V AC WALL CHARGER

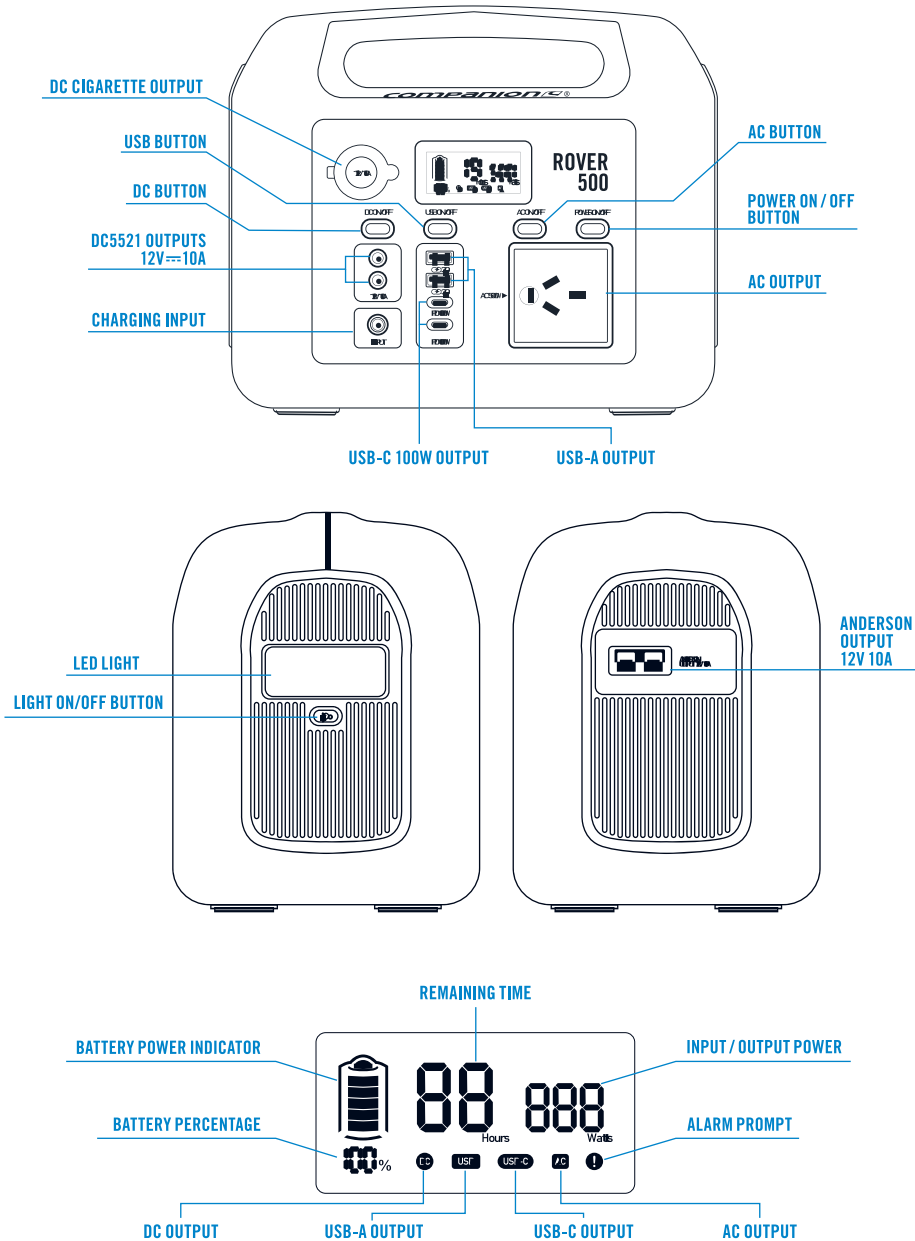


12V CAR CHARGER



ANDERSON TO DC CHARGER

## YOUR ROVER™ 500



## CHARGING YOUR ROVER™ 500

### ⚠ ATTENTION

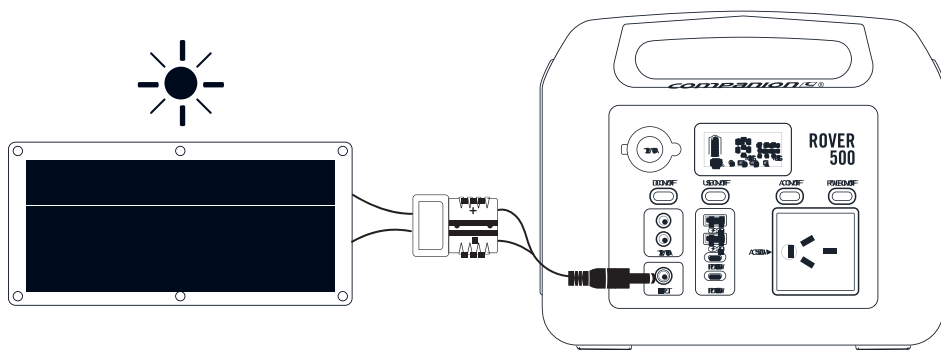
- If the ambient temperature is too high or continuous operation causes the battery temperature to exceed 60°C for high-power discharge, the product cannot be charged.
- When the battery temperature is lower than 55°C, the charging function will automatically resume.
- Fully charge the battery every time before storing.
- Ensure that the battery is charged every three months if not being used.
- If battery falls below 7% the output function will be turned off triggering an E12 Alarm. This is to avoid full discharge of the battery and potential short circuits, faults and battery degradation. To solve, simply charge the Rover 500, the error will clear once the Rover 500 reaches 7% capacity.

### 1. LCD BATTERY DISPLAY

There are 5 battery bars on the power display, corresponding to 20%, 40%, 60%, 80%, and 100%. When you use the product, the segmented display will disappear from the screen and only the remaining power will be displayed. When the product is charging, the power grid flashes every 1 second. Once fully charged, all battery bars will light up and remain fixed.

### 2. CHARGING VIA SOLAR

- Place solar panels where they will receive as much direct sunlight as possible.
- The Rover™ 500 includes an Anderson to DC adapter. Use this adapter for connecting directly to most solar panels. Connect to the solar panel via the Anderson connection and connect the DC connection to the DC input port on the Rover™ 500. The Rover™ 500 has an MPPT controller built in and will automatically regulate the solar input.

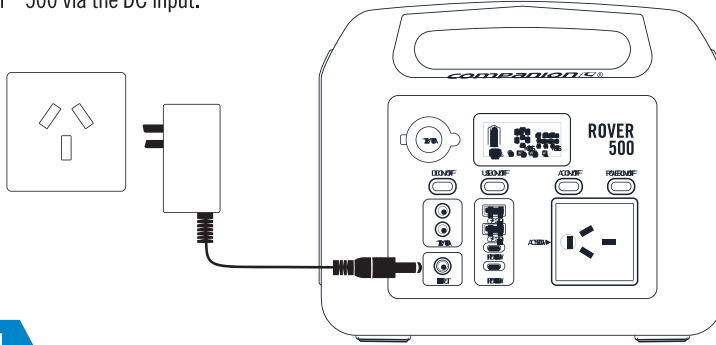


### ⚠ ATTENTION

Actual charging efficiency will vary greatly depending on factors such as weather, ambient temperature, sunlight intensity, and the angle of the solar panel facing direct sunlight. The maximum output voltage of the solar panel should not exceed 30V. It is recommended to use solar panels with an open circuit output voltage of 10.8-30V.

### 3. CHARGING VIA SUPPLIED AC ADAPTER

Plug the supplied AC wall adapter into the wall socket and connect to the Rover™ 500 via the DC input.

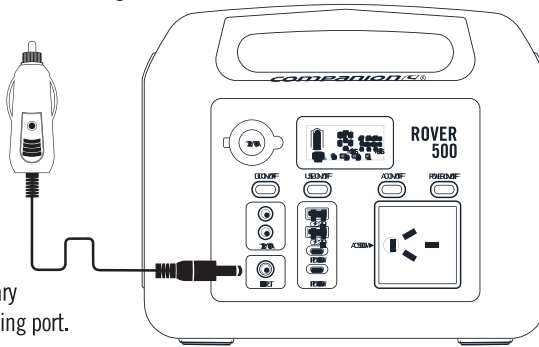


#### ⚠ ATTENTION

- The battery is fully charged when all battery bars stop flashing and remain solid. After the battery is fully charged, it is best to unplug the charging cable.
- Charge time using the AC adapter is 6hrs.

### 4. CHARGING VIA SUPPLIED 12V CAR ADAPTER

- Plug the supplied car charging cable into the 12V car cigarette lighter socket, and connect to the Rover™ 500 via the DC input.
- The 12V car adapter has a 10A fuse function to protect the car.
- When the battery bars flash, it means the unit is charging.
- Depending on the car, it may not be able to get a full charge using this charging method.
- Charge time via the car 12V socket will vary depending on the voltage of the car charging port.



#### ⚠ ATTENTION

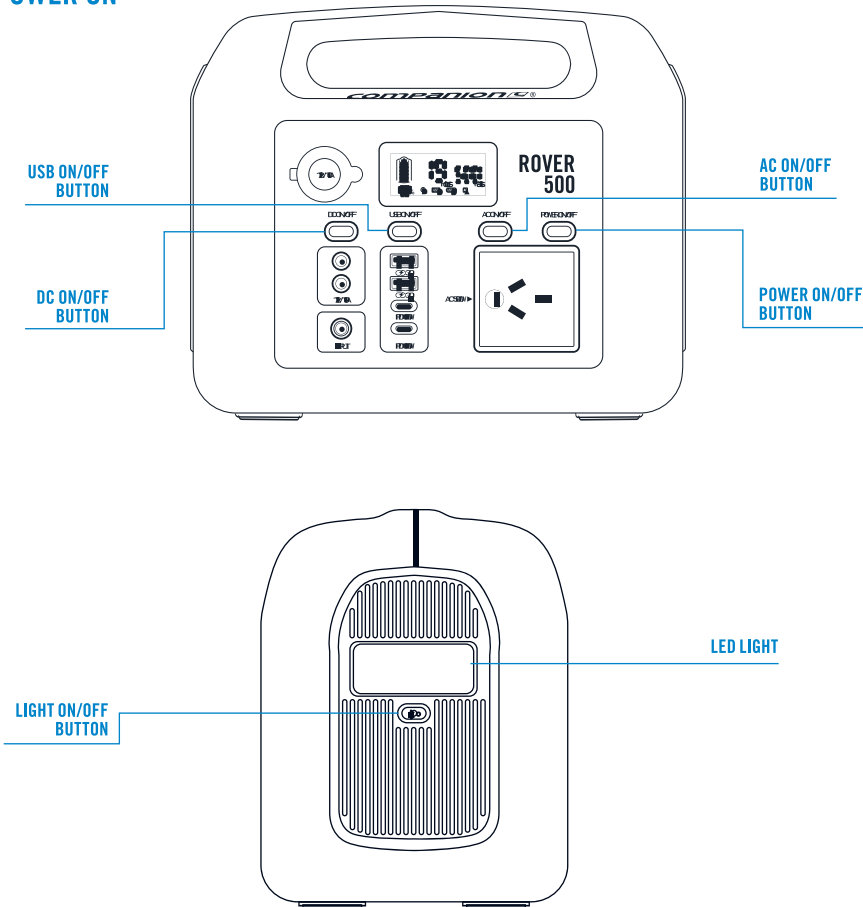
To avoid discharge of the car battery, when using the car's cigarette lighter to charge this unit, only charge it while the engine is running.

#### PROTECTION MODE (DC INPUT)

- Depending on the car model, the battery may not charge fully.
- Under-voltage protection: If the car voltage is too low, the Rover™ 500 will not be able to charge.

## OPERATION

### 1. POWER ON



- Press and hold the POWER button for 3 seconds to power on.
- Short press the AC button to turn on the AC function (while the AC icon is displayed on the screen), press the AC button again to turn off the AC function when not in use. To turn off the sounds of the buttons press and hold the AC button for 5 seconds until you hear a beep.
- Short press the DC button to turn on the DC function (the DC icon is displayed on the screen at the same time). When not in use, press the DC button again to turn off the DC function.
- Short press the USB button to turn on the USB function. When not in use, press the USB button again to turn off the USB function.
- To reset the Rover<sup>™</sup> 500, press the power button and LED light button at the same time.

## 2. LIGHTING MODE

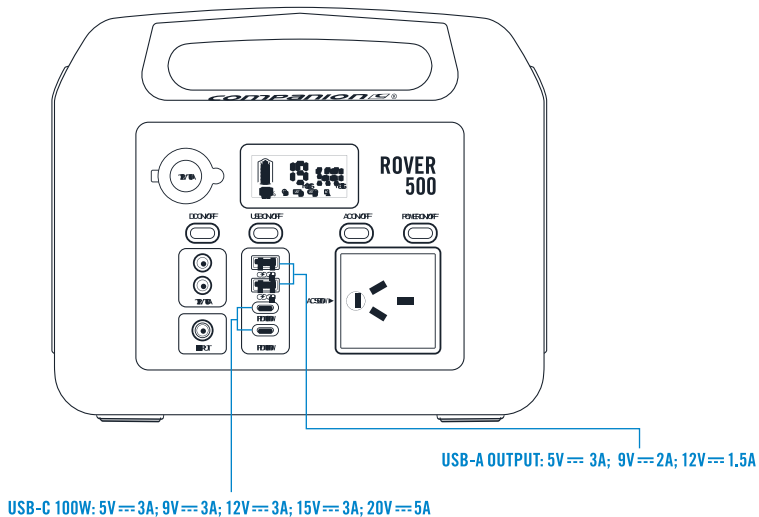
- Short press the light button to turn on the light and highlight mode.
- Press the light button again to switch the light mode to low brightness.
- Press the light button again to switch the light mode to SOS.
- Press the light button again to switch the light mode to strobe.
- Press the light button again to turn off the light.

### WARNING

**DO NOT LOOK DIRECTLY INTO THE LIGHT!**

## 3. USB OUTPUT FUNCTION

- Press the USB on / off button to enter USB mode.
- When two USB-A interfaces are used at the same time, the two interfaces can only output a total of 5V/3.8A.

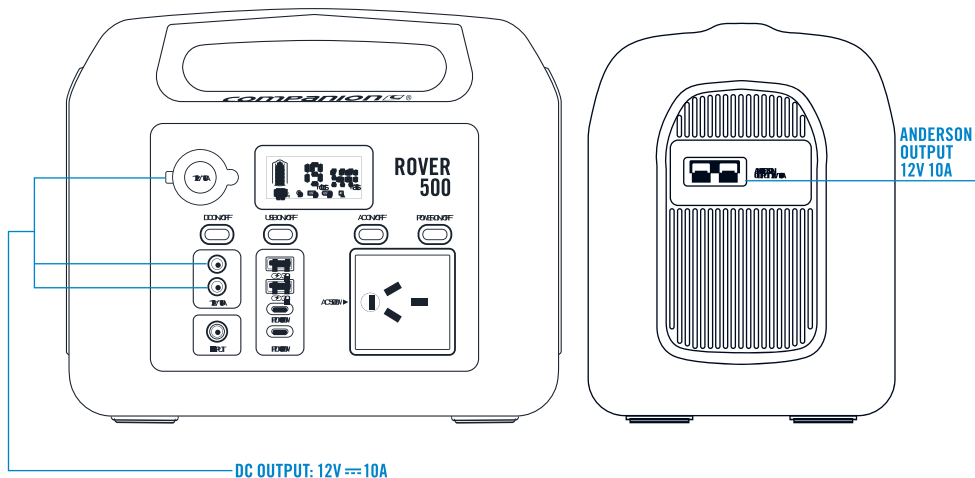


### ATTENTION

If the battery is under 1% the USB outputs will error and be disconnected to prevent damage to the battery. To solve this issue disconnect the USB cable, press the USB button to clear the code and recharge the unit.

## 4. ANDERSON/DC OUTPUT FUNCTION

- Press the DC on/off button to enter DC mode, and the DC/CAR/Anderson interface is available.
- The car charger port, DC5521 (diameter 5.5mm) port and Anderson port provides a maximum output current of 10A, and the maximum current is automatically allocated according to the external device.
- 2 x DC5521 are connected in parallel with the car charger port and the Anderson port, but the maximum output is limited to 120W.



### ! ATTENTION

- If the idle time exceeds 12 hours, the DC output will automatically turn off. When not in use, press the DC button to turn off the DC function.
- If the battery is under 1% the DC outputs will error and be disconnected to prevent damage to the battery. To solve this issue disconnect the cables, press the DC button to clear the code and recharge the unit.

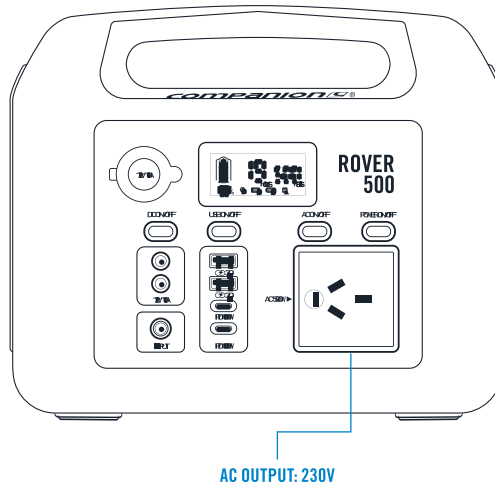
### PROTECTION MODE (DC OUTPUT)

Short circuit protection: When a short circuit occurs in an external device, the machine starts to beep and stops the output.



## 5. AC OUTPUT FUNCTION

- Plug the AC power cord into the Rover™ 500 AC output port.
- Power the unit on and press the AC on/off button to deliver power to your device.
- Make sure the power of the connected AC device does not exceed 500W.



### ⚠ ATTENTION

- If no operation is performed, the LCD backlight will automatically dim after 2 minutes. When the unit's battery is below 7%, the AC output function will be forcibly turned off and requires charging to resume. If the idle time exceeds 8 hours, the AC output will automatically turn off.
- If the battery is under 7% the AC output will error and be disconnected to prevent damage to the battery. To solve this issue disconnect the AC appliance, press the AC button to clear the code and recharge the unit.

### SURGE PEAK (AC OUTPUT)

Surge Peak means that the inverter in the power station can handle a surge peak of 1000W for a few seconds when the inverter starts. This is helpful for devices that require a higher initial power burst.

### PROTECTION MODE (AC OUTPUT)

This product has under-voltage protection; overload protection; short-circuit protection; and over-temperature protection using double isolation circuits, which is safe, reliable and efficient.

## PRODUCT SPECIFICATIONS

### BATTERY

Battery type	LiFeP04
Battery capacity	576Wh, 30Ah @ 19.2V
Life cycle	2000 cycles (80% capacity afterwards)
Battery maintenance every	Charge once every 3 months

### PORT

USB 1-2 interface (output)	5V---3A; 9V---2A; 12V---1.5A
USB-C interface (output)	5V---3A; 9V---3A; 12V---3A; 15V---3A; 20V---5A (100W)
DC5521 interface (output)	2 x DC5521 + 1 x Car charger 12V 10A (120W max)
Car charger (output)	
AC interface (output)	500W Pure sine wave, 1000W Surge Peak
DC5521 interface (input)	Adapter / Solar panel: DC 10.8 ~ 30V (150W max)

### STRUCTURE

Product weight	5.7 kg
Dimensions	273 x 175 x 227mm
Operating temperature	0 to 40°C
Illumination	LED Light

### COLD WEATHER USE

Cold temperatures can affect a product's battery capacity due to battery chemical reactions. If you live in a sub-zero environment, it is recommended to place the product in an insulated cooling environment and connect it to the power supply (12V car power supply/AC adapter/solar panel). The natural heat generated in the insulated cooling environment will keep the battery capacity at its highest level.

### DISPOSAL AND RECYCLING

The product cannot be disposed of with household waste. Recycle the product and the battery in accordance with local regulations.

### PRODUCT INFORMATION

This product has a built-in non-removable LiFeP04 rechargeable battery. Do not attempt to remove the battery, as this may damage the device.

The battery can be charged and discharged more than 2,000 times.

**! ATTENTION**

- To avoid short-circuiting the product, please keep the product away from metal objects.
- Do not heat the product, place it in fire, water or other liquids. Keep away from high temperature environments.
- Do not expose product to direct sunlight.
- Keep the product away from humid and dusty places.
- Do not disassemble or reassemble the product.
- Do not drop, place heavy objects, or cause strong impact to it.
- Keep away from children.
- Do not wrap this product in towels, clothing or other items.
- Do not overcharge.
- Remove from charge once fully charged.
- If this product will not be used for a long time, disconnect the power supply and ensure that the product is turned off before storage.
- To charge some portable electronic devices, the devices may need to be set to charging mode first, and refer to the corresponding user manuals of these devices for reference.
- This product is not recommended for powering medical emergency equipment related to personal safety, including but not limited to medical grade ventilators (hospital version CPAP: Continuous Positive Airway Pressure, artificial lungs (ECMO: Extracorporeal Membrane Usage Oxygenation.) It can work normally with a home ventilator (home version CPAP), and does not have to be continuously monitored by a professional. Follow your doctor's instructions and consult with the manufacturer for restrictions on the use of the equipment. If it is used for general medical equipment, monitor the power status to ensure that the power does not run out.

**PACKAGE CONTENTS**

- 1 x Rover™ 500 Portable Lithium Power Station
- 1 x 240V AC Wall Charger
- 1 x 12V DC Car Charger
- 1 x Anderson to DC Charger
- 1 x Owners manual

## TROUBLESHOOTING YOUR ROVER™ 500

ERROR CODE	CAUSES	SOLUTION
E01	DC output overload	Release the overload status, the DC output will be able to be used normally
E02	DC output short circuit	Remove the short-circuit state, the DC output will be able to be used normally
E03	AC output overload, over temperature, over voltage, and short circuit	Release the overload, over temperature, over under voltage, short circuit status, press the AC output key again, the AC output can be used normally
E04	USB short circuit, overload	Release the overload and short-circuit status, press the USB button and recharge the battery to over 2%
E05	Battery over temperature	Put the product in a cool temperature place and wait for the product temperature to drop before using
E06	Battery low temperature	Put the product in a high temperature place and wait for the product temperature to rise before using
E07	USB-A short circuit, overload	Release the overload and short circuit status, press the USB output button again. The USB-A will be able to be used normally
E08	DC charging overvoltage	Use a charger with the correct charging voltage to charge the device
E010	Battery discharge overload	When overloaded, the DC output will be automatically turned off
E011	Battery undervoltage protection	Stop using and fully charge
E012	Low battery	The AC output will be automatically turned off when prompted to charge
E013	Deep discharge (prompt to charge)	Press any key to release, and charge the battery to full

## WARRANTY POLICY

1. Products distributed by Adventure Operations Australia Pty Ltd and any of our subsidiaries 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 products fail to be of acceptable quality and the failure does not amount to a major failure.
2. In addition, we warrant that this product will be free from defects in materials and workmanship under normal use as described in the published product documentation for **2 years** from the date of original purchase (Limited Warranty). This Limited Warranty is only valid and enforceable in Australia and will apply only if you have purchased the product from us or our authorised resellers.
3. To the extent permitted by the Australian Consumer Law and any applicable local law:
  - (a) our obligations under this Limited Warranty are limited to the repair, replacement or refund of covered parts that prove defective under normal use during the Limited Warranty and does not extend to any claim for damages that you or any other person may have for any loss (including without limitation consequential damages or loss of profit, freight/shipping or travel costs), or damage howsoever caused whether or not such loss or damage arises as a result of any defect in the product or from the failure or omission on our part to comply with any obligation at law;
  - (b) in replacing a defective product under the Limited Warranty, we may, at its discretion, substitute a model of equivalent nature where the exact model is unavailable;
  - (c) this Limited Warranty does not apply to damage caused by failure and damage caused by improper use and abuse, fair wear and tear, accidents, misuse (including failure to follow instructions regarding care and maintenance of the product), neglect, disassembly, alterations or external causes such as, but not limited to, water damage, exposure to sharp objects, exposure to excessive force, anomalies in the electrical current supplied to the product (if applicable), and extreme thermal or environmental conditions;
  - (d) we may elect, at our discretion and as an alternative to repairing or replacing a defective part to refund the cost of the relevant product upon it being returned to us; and
  - (e) this Limited Warranty does not extend to any products acquired for the purposes of re-supply, or for use in a manufacturing, or repair processes.
4. This 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;
5. If you have any questions concerning this warranty policy, you may contact us in writing:  
 Adventure Operations, 71 Charles Ulm Place, Eagle Farm, 4009 QLD, or by email:  
[warranty@adventureoperations.com](mailto:warranty@adventureoperations.com) or visit our website: [www.adventureoperations.com](http://www.adventureoperations.com)

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**companion<sup>9</sup>**

## NOTES:

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## NOTES:

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WARRANTY - For details see [www.companionoutdoor.com/warranty](http://www.companionoutdoor.com/warranty)

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