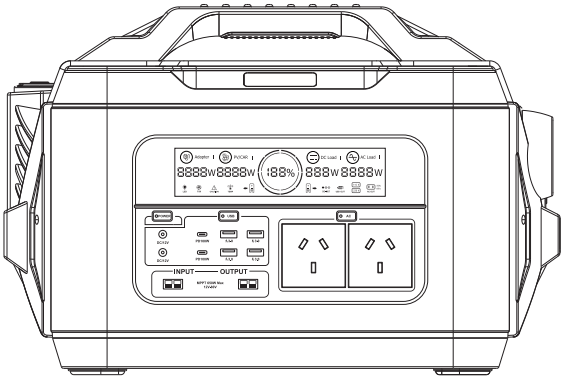
WILDTRAK

WILDTRAK POWER SYSTEMS

PORTABLE POWER STATION

POWER TANK PRO 2400

USER MANUAL



WILDTRAK

Thank you for purchasing our
portable energy storage power supply.
Please read this manual carefully before use, and keep it in case of emergency. This manual will help you to operate this product correctly, and our company will not be responsible for any losses caused by users' failure to use the product according to the specifications in this manual.
Our company has the final right to interpret this document and all documents related to this product. This document is subject to change (update, revision or termination) without prior notice.
Thank you!

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SAFETY INSTRUCTIONS

Usage

01. Do not use the product near a heat source, such as a fire source or a heating furnace.
02. Avoid contact with any liquid. Do not immerse the product in water or get it wet. Do not use the product in rain or humid environments.
03. Do not use the product in an environment with strong static electricity/magnetic fields.
04. Do not disassemble the product in any way or pierce the product with sharp objects.
05. Avoid using wires or other metal objects that may result in a short circuit.
06. Do not use unofficial components or accessories. If you need to replace any components or accessories, please visit official channels to check relevant information.
07. When using the product, please strictly follow the operating environment temperature specified in this user manual. If the temperature is too high, it may result in a fire or explosion; if the temperature is too low, the product performance may be severely reduced, or the product may cease to work.
08. Do not stack any heavy objects on the product.
09. Do not lock the fan forcibly during use.
10. Please avoid impact, falls, or severe vibrations when using the product. In case of a severe external impact, turn off the power supply immediately and stop using the product.
11. Ensure the product is well fastened during transportation to avoid vibrations and impacts.
12. If you accidentally drop the product into water during use, please place it in a safe open area, and stay away from it until it is completely dry. The dried product should not be used again, and should be properly disposed of according to section "Disposal Guide"below. If the product catches

fire, we recommend that you use the fire extinguishers in the following order: water or water mist, sand, fire blanket, dry powder, and finally a carbon dioxide fire extinguisher.

13. Use a dry cloth to clean off dirt on the product ports.
14. Rest the product on a flat surface to avoid damages caused by the product falling over.
15. If the product is overturned and severely damaged, turn it off immediately, place the battery in an open area, keep it away from combustible matter and people, and dispose of it in accordance with local laws and regulations.
16. Ensure that the product is kept out of reach of children and pets.

Disposal Guide

1. If conditions permit, make sure that the battery is fully discharged before disposing it in a designated battery recycling bin. The product contains batteries with potentially dangerous chemicals, so it is strictly prohibited to dispose of it in ordinary trash cans. For more details, please follow the local laws and regulations on battery recycling and disposal.
2. If the battery cannot be fully discharged due to a product failure, please do not dispose of the battery directly in the battery recycling box. In such case,you should contact a professional battery recycling company for further processing.
3. Please dispose of over-discharged batteries that cannot be recharged.

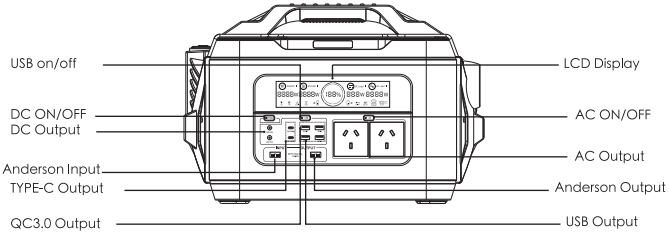
SPECIFICATIONS

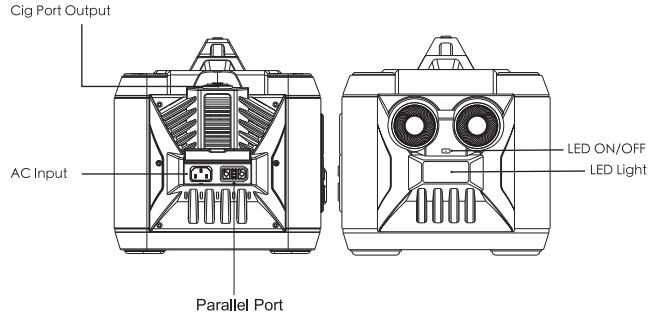
Basic parameter	
Model	POWERTANK PRO 2400
Battery Capacity	44.8V 45Ah 2016Wh
Rated Power	2400W, Peak 4800W
Battery Type	LiFePO4
LED Light	Light and Warning Flash
Gross Weight	29kg
Product Size	L466*W300*H310mm
Operation Temperature	-10℃ to 40℃
Fully Charged Time	2hrs
Input Parameter	
AC Charging Input	AC 1600W max
Anderson Input	12V-80V 8.6A max, 650W max
Output Parameter	
AC Output	230/240V 50/60Hz
DC Output(x2)	12V/10A
Cig Port Output	12V/10A
QC 3.0 Output (x4)	5V/3A,9V/2A,12V/1.5A
Type C Output (x2)	PD 100W: 5V/3A,9V/3A,12V/3A,15V/3A, 20V/5A
Anderson Output	12V/25A
Output Waveform	Pure Sine Wave

Protection Circuit	
Short circuit protection	Over discharge protection
Over current protection)	Over charge protection
Over power protection	Over-temperature protection

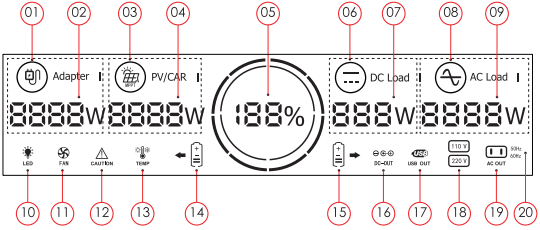
Package Includes	
1 x Portable Power Station	1 x Anderson Connector
1 x AC Power Cable	1 x User Manua
1 x Car Charger	

PRODUCT DESCRIPTION





LCD DISPLAY



01. AC Input
02. Mains input power
03. MPPT (car charger) input
04. MPPT (car charger) input
05. Battery power remaining
06. DC output
07. DC output power
08. AC Output
09. Mains output power
10. LED
11. Fan
12. Fault
13. Temperature status
14. Input instruction
15. Output indication
16. DC Output display
17. USB Output display
18. Output voltage display
19. AC output indication
20. Frequency display

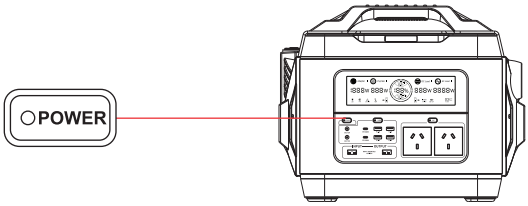
188%	**Battery Power Indicator** Rotate clockwise: ---------- Charging 100% display: ---------- Fully charged The icon flashes: ---------- Low battery It is recommended to charge when the battery indicates less than 20%.
Adapter 8888W	When you use the power cord to charge the power station, this icon will light up and display the current AC input power in real time.
PV/CAR 8888W	When you use solar panel (vehicle charger) to charge the power station, this icon will light up and display the current MPPT (vehicle charger) input power in real time.
DC Load 888W	When you use the DC output function of the power storage, this icon will light up and display the current DC output power in real time.
AC Load 8888W	When you use the AC output function of the power station, this icon will light up and display the current AC output power in real time.

Functional fault warning
In case of short circuit, exceeding the maximum current/power limit or low voltage, the output will be automatically turned off immediately, the functional fault icon will appear on the display screen, and the corresponding socket indicator will flash for 60 seconds at the same time. Please remove the overload equipment immediately, and then restart the energy storage equipment to return to normal.

How To Charge The Portable Power Station?

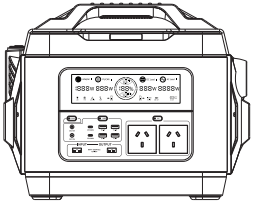
1. How to turn on/off the Portable Power Station?

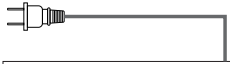
Turn on	Press the main power switch briefly to start, the display screen will light up, the buzzer will drop, and the main power indicator will turn green. When the equipment is in no-load state and the function button is not turned on, the energy storage will be automatically turned off after one minute.
Rest screen	Press the main power switch briefly, the display screen will go out, and the main power indicator light will be green and always on. When the device is in the no-load state and the function button is not turned on, it will automatically turn off after one minute.
Turn off	Press and hold the main power switch for 3 seconds to turn it off. (When the energy storage is in the charging state, it cannot be turned off)



2. How to use AC output?

AC on	Press and hold the AC button for 3 seconds to turn on the inverter. The AC output icon lights up, the buzzer clicks, and the AC key indicator turns green.
Frequency switching	With AC turned on, click the AC button for 5 times continuously to switch the frequency. 
AC off	Press and hold the AC button for 3 seconds to turn off the inverter. The AC output icon goes out, the buzzer drops, and the AC key indicator goes out.

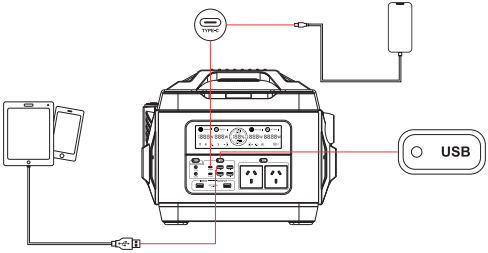




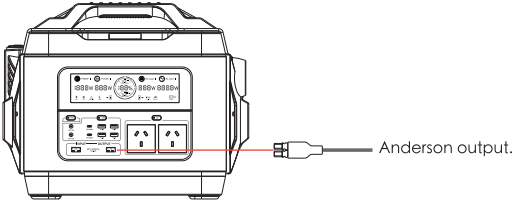
Due to the energy storage equipment you currently have, the rated power is 2400W. It can be used for notebook computers, fans, televisions, ventilators, cameras and other equipment. When AC power is short-circuited or overloaded, it will automatically turn off, and it can be restored after removing the short-circuit/overload equipment.

3. How to use DC output?

DC on	Press the DC button briefly to turn on the USB/DC output. The DC output icon lights up, the buzzer clicks, and the DC button indicator turns green.
Buzzer setting	In the power-on state, press the DC button for 2 seconds to turn off/on the buzzer. (Automatic recovery at next boot)
DC off	Press the DC button briefly to turn off the USB/DC output. The DC output icon goes out, the buzzer drops, and the AC key indicator goes out.

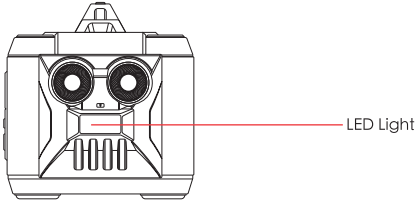


4. After turning on the DC, this is the Anderson 12V output.



5. How to use LED light?

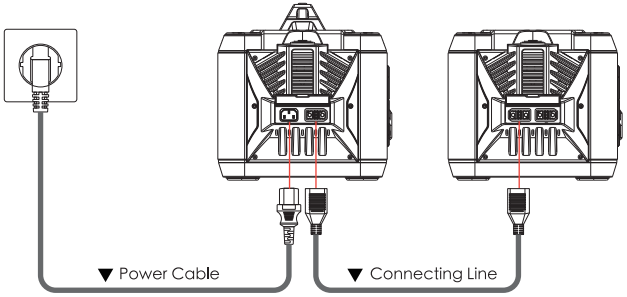
Turn on the LED	Press and hold the DC button for 2 seconds to turn on the LED flashlight. The LED icon lights up, the buzzer drops, and the light lights up.
Switching LED	When the LED is on, short press can switch the lighting modes: high light, low light, SOS, flash.
Turn off the LED	Press and hold the DC button for 2 seconds to turn off the LED flashlight.



HOW TO CHARGE THE PORTABLE POWER STATION?

1. Charge the portable power station with AC input.

- Please connect our portable power station power supply to the household AC outlet, the battery icon lights up and the icon rotates clockwise. When the battery icon shows 100%, it means that the stored energy is fully charged.
- When the auxiliary machine needs to be charged, it must be connected to the main machine before charging. (Auxiliary machine cannot be charged separately)

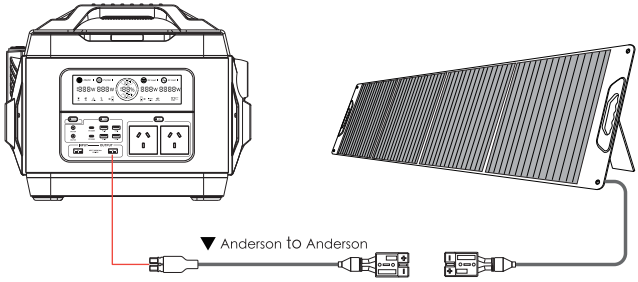


Pecautions for charging.

1. Before charging, it is necessary to ensure that both the main power station and the auxiliary power station are turned off.
2. After the main power station is connected with the auxiliary power station, click the POWER button of the main engine and confirm that the display screens of both are displayed normally before charging or discharging can begin;
3. When the average power of the main power station and the auxiliary power station is insufficient, the battery with less power will be charged first.

2. Charging the portable power station through solar panels

■ This product has MPPT controllers (12V-80V, 8.6MAX, MPPT 650W), which can better and more efficiently use solar panels to charge the power station. Before charging, please ensure that your solar panel output parameters are within this range.



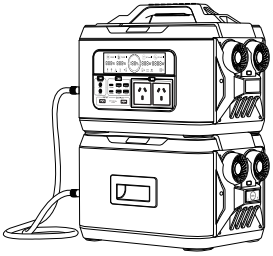
Precautions for charging.

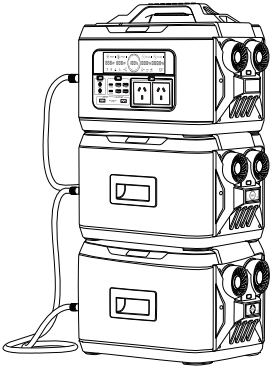
1. Please confirm the positive and negative poles of Anderson line before charging, and don't connect them backwards.

2. The charging efficiency of solar panels depends on the placement of solar panels and the intensity of the sun on that day. Please place the solar panels on the side facing the sun.

CAPACITY EXPANSION FUNCTION

A single product can be connected to at most two auxiliary machines at the same time, and the auxiliary machines can only expand their capacity and cannot add power.





Precautions.

1. Before using the main power station to connect the auxiliary power station, please ensure that both the main and the auxiliary power stations are turned off. (Live operation is very dangerous, please don't try)
2. Before starting the machine, make sure that the main machine is correctly connected to the auxiliary machine. If the auxiliary battery screen lights up to show the remaining power, the fault light does not light up, indicating that the intelligent extra battery is connected successfully.
3. Don't insert or take out the intelligent backup battery during discharge, so as to avoid unnecessary accidents.

4. Do not touch the metal end of the interface with your hands or other objects to prevent poor contact. If there is something on the metal end, wipe it gently with a dry cloth.
5. To charge the intelligent additional battery, please connect the auxiliary machine that is turned off when the main machine is turned off. When the power cord is connected to charge the auxiliary machine, the normal output of the main machine will not be affected.

CONSTANT POWER (UP-DIMENSION DRIVE)

With the help of dimension-lifting drive technology, the maximum power of this product can reach 3500W W. Under the condition that the rated output power of the equipment is kept at 2400W, the operation failure caused by overload protection is avoided.

Note: the dimension-lifting drive technology is not suitable for all electrical appliances, please refer to the actual use.

CHARGE AND RELEASE AT THE SAME TIME

Support the simultaneous charging of commercial power and photovoltaic charging, and give priority to photovoltaic charging.

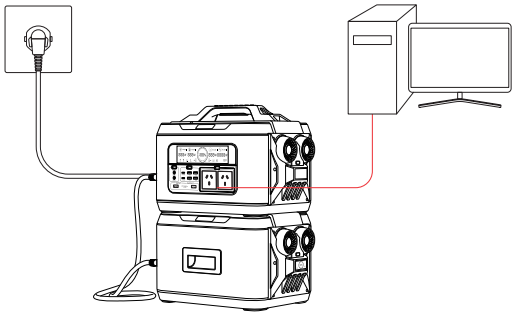
When the mains supply is input, the bypass mode is adopted when charging and discharging, and when MPPT is input, the normal inverter output.

UPS FUNCTION (UNINTERRUPTED POWER STATION)

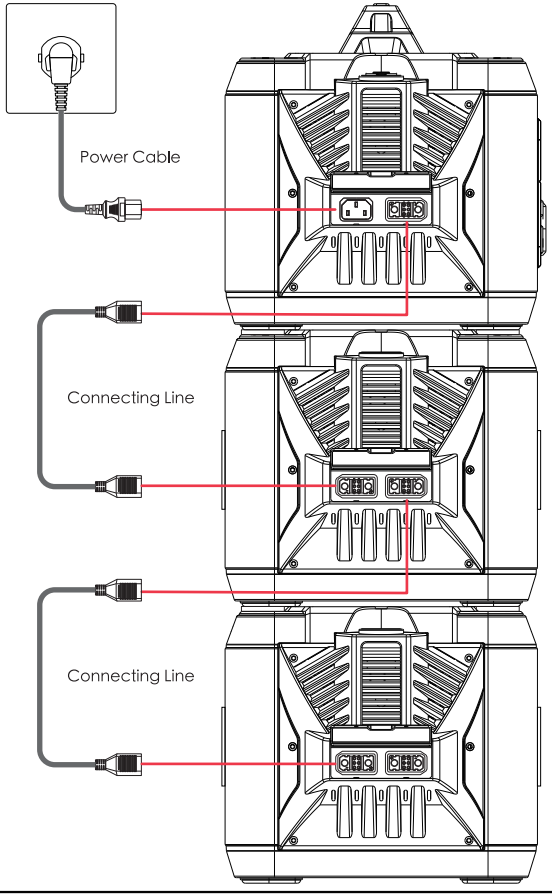
This product supports UPS function. When you connect the AC input of the energy storage power supply through the power cord, you can also use the AC output port to supply power to the equipment (at this time, the electricity used by the equipment comes from the power grid). In case of sudden power failure, this product can automatically switch to battery power supply mode within 30 ms.

This function is a non-professional UPS function and does not support 0 millisecond switching. Therefore, don't connect it to any devices that need 0 millisecond conversion, such as data servers and workstations, or if you still want to use it, please test it several times before using it to confirm compatibility.

In addition, it is recommended to use only one device, otherwise using multiple devices at the same time will lead to overload protection of energy storage equipment. If the equipment fails to work normally or data is lost due to failure to follow the instructions, the company will not bear corresponding responsibilities.



SCHEMATIC DIAGRAM OF EQUIPMENT CONNECTION



FREQUENTLY ASKED QUESTIONS

1. Can I take the product on the plane?
You can't. According to international air transport standards, lithium batteries cannot exceed 100 watt-hours, however please check with your airline. You can't take the product aboard because the built-in battery is 2160Wh.

2. Why is there noise when the product works?
Battery products will generate heat during charging and discharging, so they are equipped with a strong cooling system. The built-in fan can better help the product to dissipate heat and achieve high conversion rate. It is normal to have slight noise during use.

3. When the product is charged, is the product temperature normal?
It is normal for the product to generate heat during charging. The product has an independent temperature control system and over-temperature protection measures, and the products have undergone strict aging tests before leaving the factory, so there is no need to worry about such situations.

4. Why is the device not discharging?
Check if the connecting cables are plugged into the correct ports.
Check if the total output power exceeds the rated output power.
Check if the device's temperature is too high.

5. Why is the device not charging?
Confirm if the charging cable is loose. If the connection between the charging cable and the device is not secure, it may cause a situation where the power is on but the device does not charging.
The device cannot be charged immediately after dishcarging. Please let it sit for one hour and try again, as it may have entered over-temperature protection.

PRODUCT MAINTENANCE

1. This product has built-in high-quality lithium iron phosphate battery. It has better characteristics of high temperature resistance, heat resistance, moisture resistance and high pressure resistance. However, we still recommend that you use it in the range of 10℃ ~30℃ to obtain the best charging capacity.

2. When charging, please stay away from TV, radio and other equipment to avoid interference.

3. If the equipment has not been used for a long time, please disconnect the cable and store it, fully charged. To preserve lifespan, recharge the power station every 3-6 months.

4. Some portable devices may need to be set to charging mode to charge. For more information, please refer to the corresponding equipment manual.

5. After starting, if there is no output, the display will automatically turn off within 60 seconds to achieve better energy-saving effect.

6. Please dispose of scrapped products according to regulations, and don't treat the built-in battery as domestic garbage to avoid explosion and pollution.

7. This product is only used for emergency power supply and cannot replace the standard DC or AC power supply of household appliances or digital products.

8. This product is only used for emergency power supply and cannot replace the standard DC or AC power supply of household appliances or digital products.



To preserve lifespan
recharge every 3-6 months



Use original
or certified cables



Do not expose
to liquids



Do not disassemble

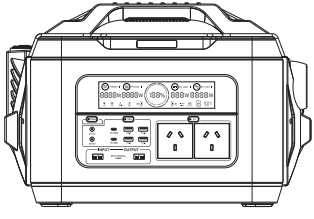


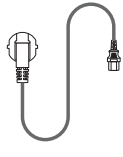
Avoid dropping



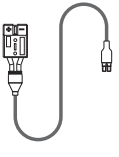
Avoid extreme
temperatures

PARTS LIST

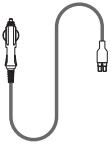




Power Cable



Anderson
to Anderson Cable



Anderson
to Car Charger Cable



User Manual

TROUBLE CODES

BMS PART

⚠101	Battery Overcharge Protection
⚠102	Battery pack over-discharge protection
⚠103	Battery charging overcurrent protection
⚠104	Battery discharge overcurrent protection
⚠105	Battery pack charging over-temperature protection
⚠106	Battery pack discharge over-temperature protection
⚠107	Battery pack charging low temperature protection
⚠108	Battery pack discharge low temperature protection
⚠109	Battery short circuit protection
⚠110	Protection against excessive pressure difference of battery pack monomer
⚠111	Analog front-end exception
⚠112	Pre-charging failed
⚠113	MOS overtemperature
⚠114	MOS exception
⚠115	BMS Eeprom fault
⚠116	NTC exception
⚠117	CAN communication is abnormal

INV PART

⚠160	AC output overvoltage protection
⚠161	AC output undervoltage protection
⚠162	AC output short circuit protection
⚠163	Inverter over-temperature protection

MPPT PART

⚠ 130	24V overvoltage
⚠ 131	24V undervoltage
⚠ 132	PV input overvoltage
⚠ 133	PV input overcurrent
⚠ 134	PV output overvoltage
⚠ 135	PV output overcurrent
⚠ 136	Car charging output overvoltage
⚠ 137	Car charging output undervoltage
⚠ 138	Car charging output overcurrent
⚠ 139	DC5525 overcurrent
⚠ 140	MPPT overtemperature
⚠ 141	MPPT fan fault
⚠ 142	PV output short circuit
⚠ 143	MPPT NTC fault
⚠ 144	DC5525 short circuit
⚠ 145	Car charging short circuit

HMI PART

⚠ 180	Inverter communication fault
⚠ 181	Main BMS communication fault
⚠ 182	MPPT communication fault
⚠ 183	Communication fault from BMS

12 MONTH LIMITED WARRANTY

WARRANTY PERIOD:

12 month warranty from date of purchase.

THIS LIMITED WARRANTY COVERS:

- Any defect in the manufacture or design of the items which results in their failure to perform as advertised.
- If item damage is found to have been caused by a design or manufacturing defect, we will replace or repair the item at our discretion.

Our products include guarantees that cannot be excluded under the Australian Consumer Law. Consumers are entitled to the following:

- Replacement or refund for item failure
- Compensation for reasonably foreseeable loss or damage
- Item replacement or repair if it fails to be of acceptable quality even if it does not amount to a major failure

These benefits provided to you as a consumer are in addition to other rights available under the law.

THIS LIMITED WARRANTY DOES NOT COVER:

- Damage from improper use or tampering
- Cost of removal and reinstallation of the product
- Wrong installation or modifications made while installing
- Travel and/or other expenses due to consumer's secluded location
- Transport charges and any damage during transportation. It is the consumer's responsiblity to deliver and pick up their product, this includes all costs that comes with the postage of the repair or replacement of their product. If consumer decides to freight their product, it is advised to insure it against loss or damage.
- Damages caused by insects, animals, mould, bad weather, accidents and fair wear and tear
- Any loss directly or indirectly resulting to product failing to operate

Email claim along with proof of purchase to sales@wildtrak.com.au

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(08) 9455 3200 | sales@wildtrak.com.au
www.wildtrak.com.au