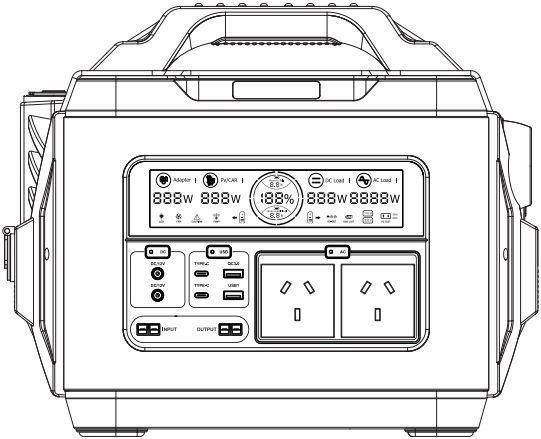
WILDTRAK

WILDTRAK POWER SYSTEMS

## PORTABLE POWER STATION

# POWER TANK PRO 1000

# 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.

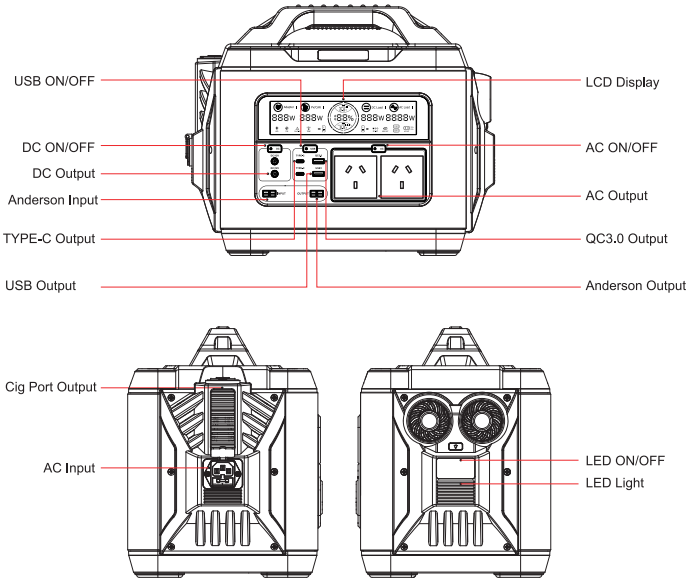
# SPECIFICATIONS

| Basic parameter | |
|---|---|
| Model | POWERTANK PRO 1000 |
| Battery Capacity | 22.4V 45Ah 1008Wh |
| Rated Power | 1000W, Peak 2000W |
| Battery Type | LiFePO4 |
| LED Light | Light and Warning Flash |
| Gross Weight | 16kg |
| Product Size | L365*W235*H270mm |
| Operation Temperature | -10℃ to 40℃ |
| Fully Charged Time | 2hrs |
| **Input Parameter** | |
| AC Charging Input | AC 600W max |
| Anderson Input | 12V-30V 8A max, 200W max |
| **Output Parameter** | |
| AC Output | 230/240V 50/60Hz |
| DC Output (x2) | 12V/10A |
| Cig Port Output | 12V/10A |
| QC 3.0 Output | 5V/3A, 9V/2A,12V/1.5A |
| USB Output | 5V/2.4A |
| Type C Output 1 | PD 100W: 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A |
| Type C Output 2 | PD 18W: 5V/3A, 9V/2A, 12V/1.5A |
| Anderson Output | 12V / 25A |
| Output Waveform | Pure Sine Wave |

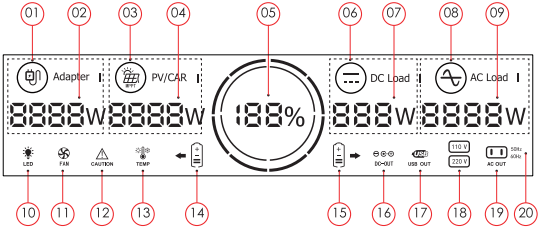
| Protection Circuit | |
|---|---|
| Short circuit protection | Over discharge protection |
| Over current protection) | Over charge protection |
| Over power protection | Over-temperature protection |

| Package Includes | |
|---|---|
| 1 x Portable Power Station | 1 x Anderson Connector |
| 1 x AC Power Cable | 1 x User Manual |
| 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

| | |
|---|---|
|  | **Battery Power Indicator**<br>Rotate clockwise: ---------- Charging<br>100% display: ---------- Fully charged<br>The icon flashes: ---------- Low battery<br>It is recommended to charge when the battery indicates less than 20%. |
|  | 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. |
|  | 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. |
|  | 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. |
|  | 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. |

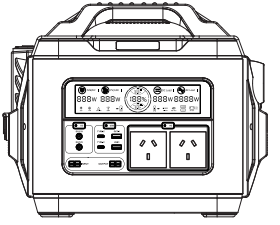
FUNCTIONAL FAULT WARNING

When short-circuit, low voltage, or exceeding maximum current/power limit take place, the Function Failure sign will show on display, and the corresponding outlet indicator will flash simultaneously for 60 seconds. At the same time, it automatically stops running immediately. Please remove the overloaded devices and then restart the power station to resume work.

## How To Use The Portable Power Station?

### 1. AC Output ON/OFF

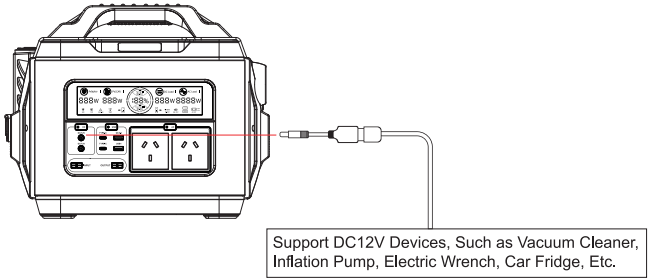
| | |
|---|---|
| AC on | Press and hold the AC power button O AC for 2 seconds to turn on the AC output, the corresponding indicator light will light up and the display screen will show Frequency ➡ 50Hz 60Hz AC OUT AC output will switch off within 3 hours automatically when there are no loads (less than 5W). |
| AC off | Press and hold the AC power button O AC for 2 seconds to turn off the product, the corresponding LED indicator light and the display screen 50Hz 60Hz AC OUT will turn off. |



According to the power station you currently have, Limited device wattage<1000W, Such as laptop, Fan, TV, CPAP, can be charged. AC will shut down when it's short circuited or power over loaded. Remove the device to recover from short circuit or over power protection.

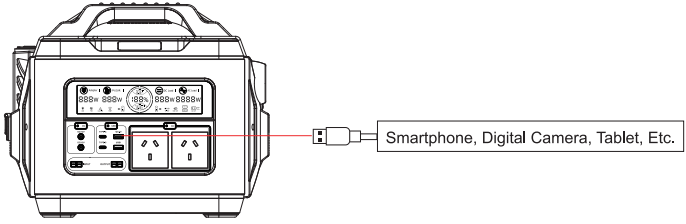
## 2. DC Output ON/OFF

| | |
|---|---|
| DC on | Press the DC power button [ DC ] to turn on DC output, the corresponding indicator light will light up and the display screen wil show ➡ DC-OUT . DC output will switch off within 1 hour automatically when there are no loads (less than 2W). |
| DC off | Press the DC power button [ DC ] to turn off the product, the corresponding indicator light and the display screen ➡ DC-OUT will turn off. |

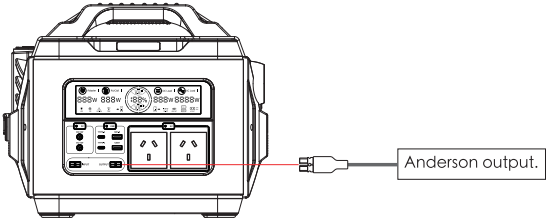



## 3. USB Output ON/OFF

| | |
|---|---|
| USB on | Press the USB power button [ USB ] to turn on the USB/TYPE-C output, the corresponding indicator light will light up and the display screen will show ➡ USB OUT . USB output will switch off within 1 hour automatically when there are no loads (less than 1W). |
| USB off | Press the USB power button [ USB ] to turn off the product, the corresponding indicator light and the display screen ➡ USB OUT will turn off. |

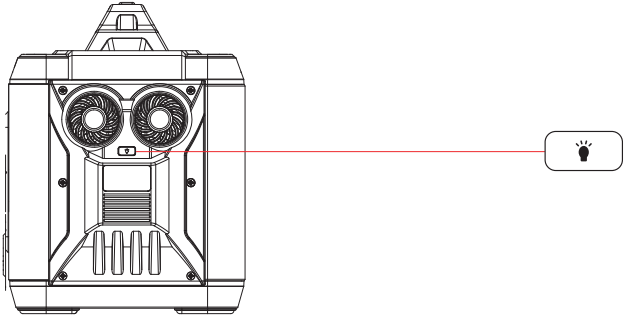


## 4. After turning on the AC, this is the Anderson 12V output.




## 4. LED Light

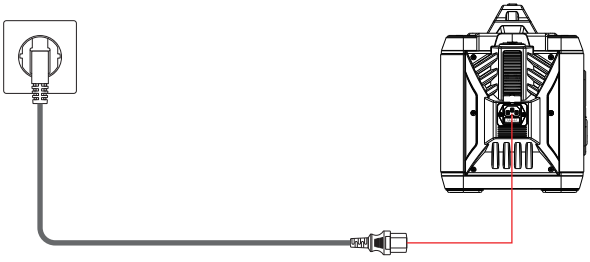
| | |
|---|---|
| Turn on | Press and hold the LED button for 2 seconds to turn on the light and the display screen will show LED. One more click to switch the modes: High light, Low light, SOS and strobe. |
| Turn off | Press and hold the LED button for 2 seconds to turn off the light. |



## HOW TO CHARGE THE PORTABLE POWER STATION?

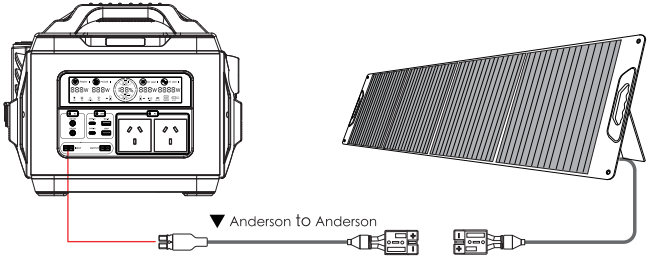
### 1.Charge by AC adaptor

Please connect our power station to the household AC socket, you'll know the unit is charging when the battery power icon light up, When the product is full of power, the icon will fully light, please remove the cable after fully charged.



### 2.Charge by Solar Panel

The icon" ⬅ " will lights up, show the current input power in watts" PV/CAR 888W " and provide remaining charging time in hours under current input ,and the percentage of the battery.



## 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

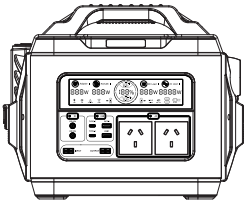


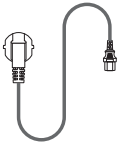
Avoid dropping



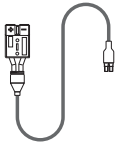
Avoid extreme
temperatures

## PARTS LIST

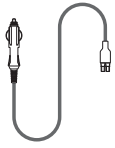




Power Cable



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

WILDTRAK

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

48 Griffin Crescent, Brendale, QLD 4500
(08) 9455 3200 | sales@wildtrak.com.au
www.wildtrak.com.au