

# USER GUIDE

# PS2000

## PORTABLE POWER STATION



**iTECHWORLD**  
THE POWER EXPERT

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# OVERVIEW

The iTechworld PS2000 Portable Power Station is an all in one power solution built to keep your world running, whether you're setting up camp, working remotely, or preparing for an unexpected power outage. It delivers clean, stable power wherever the grid can't reach, no complex wiring or messy installs.







The latest generation PS2000 raises the bar with a 2400W pure sine wave inverter, giving you the headroom to run demanding appliances with ease. An upgraded LCD display and built in Bluetooth monitoring and control allow you to check charge levels from inside the tent or adjust the settings from your device.

From fridges and coffee machines to laptops and phones, the PS2000 handles it all with consistent, reliable performance. Advanced safety features are built in as standard, so you can focus on the adventure or the job, not the power supply.

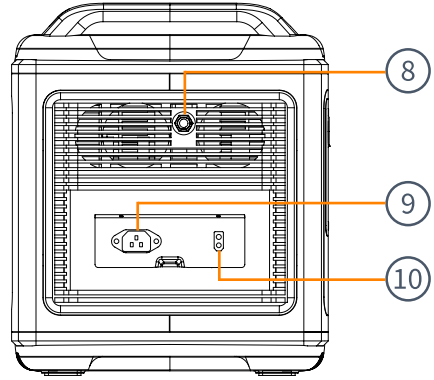
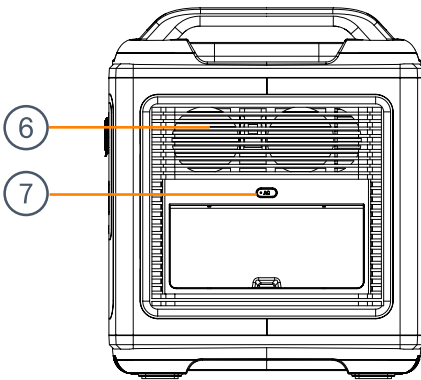
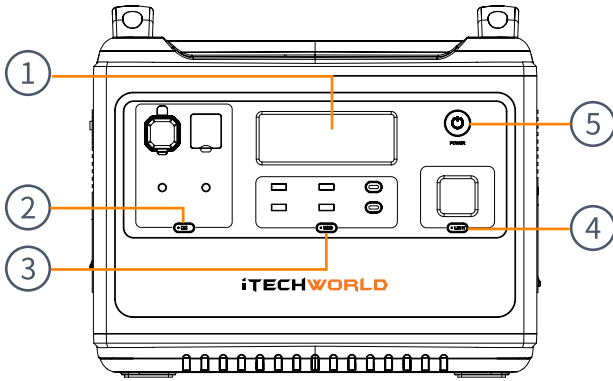
## KEY FEATURES

- 2400W Pure Sine Wave output (4800W surge)
- 2048Wh (170Ah @ 12V) LiFePO4 battery
- AC, DC and solar charging
- Built in pass through charging
- 10ms Uninterruptible Power Supply (UPS)
- Bluetooth monitoring and control
- Intuitive LCD display
- Multiple USB, DC and AC outputs
- Quiet operation as low as 30dB
- Plug and play setup

## PACKAGE CONTENTS

 <p>PS2000 Power Station</p>	 <p>XT90 to 50A Anderson Adapter</p>	 <p>AC Input Cable</p>	 <p>XT90 to Cigarette Plug</p>	 <p>User Guide</p>	 <p>Cable Storage Bag</p>
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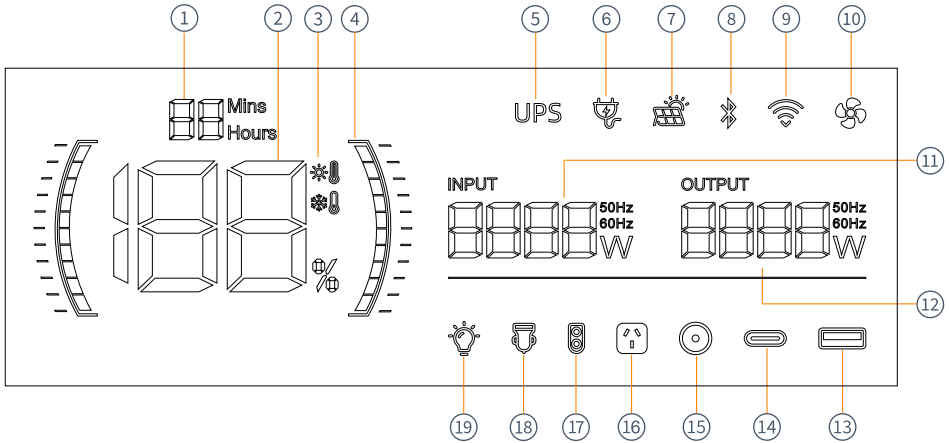
# UNIT DIAGRAM



- |                        |                          |
|------------------------|--------------------------|
| ① LCD DISPLAY          | ⑥ AIR INTAKE/OUTLET      |
| ② DC CONTROL BUTTON    | ⑦ AC 240V OUTPUT CONTROL |
| ③ USB CONTROL BUTTON   | ⑧ OVERLOAD PROTECTION    |
| ④ LED CONTROL BUTTON   | ⑨ AC 240V INPUT PORT     |
| ⑤ POWER CONTROL BUTTON | ⑩ XT90 INPUT PORT        |

# LCD DISPLAY

The LCD display shows remaining battery level and real time usage data at a glance. It will enter sleep mode after 30 seconds of inactivity, waking automatically when power is detected or any button is pressed. The display stays active whenever the unit is charging or discharging



① REMAINING DISCHARGE TIME

② REMAINING CAPACITY

③ TEMPERATURE STATUS

④ BATTERY CHARGE STATUS

⑤ UPS STATUS

⑥ AC CHARGING STATUS

⑦ XT90 INPUT STATUS

⑧ BLUETOOTH STATUS

⑨ WIFI STATUS

⑩ FAN STATUS

⑪ TOTAL INPUT POWER

⑫ TOTAL OUTPUT POWER

⑬ USB OUTPUT STATUS

⑭ USB-C OUTPUT STATUS

⑮ DC OUTPUT STATUS

⑯ AC OUTPUT STATUS

⑰ XT60 OUTPUT PORT STATUS

⑱ CIGARETTE SOCKET STATUS

⑲ LED LIGHT STATUS

## OPTIONAL ACCESSORIES



PS2000 Protective  
Cover



PS2000 Tray



XT60 to Anderson  
Cable 25A



Power Station  
Fast Charger



Anderson Wiring  
Kit 60A 6AWG

# OPERATION

## BUTTON FUNCTIONS

The PS2000 is simple to operate, with dedicated buttons for each output so you have full control at all times.

**Power Control:** Hold to turn the unit on or off.

**USB Control:** Press to turn the USB outputs on or off.

**DC Control:** Press to turn the DC outputs on or off.

**AC Control:** Press to turn the AC outputs on or off.

To switch between 50Hz and 60Hz:

1. Press and hold the AC Control button for 3 seconds until the frequency icon begins flashing on the display.
2. Press the AC Control button again to toggle between 50Hz and 60Hz. Once the icon stops flashing, the switch is complete.

**Note:** 50Hz is standard in Australia. Only change this setting if required by your device.

**Light Control:** Press to cycle through solid, SOS, and flash modes. Hold to turn the light off.

**Overload Protection:** If the connected load exceeds the unit's rated output, the AC line will disconnect automatically. To restore it:

1. Turn the unit off and unplug all connected devices.
2. Wait 60 seconds, then turn the unit back on.
3. Press the overload protection button to restore the AC 240V output.

## AC OUTPUT

Model	Interface	Rated Power	Surge Power (5ms)	Inverter Type	Frequency
PS2000	3 x 15A Type I	2400W	4800W	Pure Sine Wave	50Hz / 60Hz

## DC OUTPUT

Model	Interface	Rating
PS2000	2 x DC5521 Cigarette Socket XT60	12V / 3A 12V / 10A 12V / 25A

## USB OUTPUT

Model	Interface	Rating
PS2000	2x USB 2 x USB QC3.0 2 x USB-C	2 x 12W 2 x 18W 2 x 100W

## BLUETOOTH CONNECTION

The PS2000 features built in Bluetooth connectivity, allowing you to monitor and control your power station from your device via the iTechworld Connect app.

To get started, scan the relevant QR code below or search for "iTechworld Connect" in the App Store or Google Play.



USER GUIDE



IOS



ANDROID

## UPS MODE

The PS2000 features a built in Uninterruptible Power Supply (UPS) mode. When connected to mains power, the unit draws directly from the grid rather than the battery, keeping your battery in reserve.

Model	UPS Max
PS2000	2400W

In the event of a power outage, the PS2000 automatically switches to battery power within 10ms, fast enough to keep sensitive electronics running without interruption.

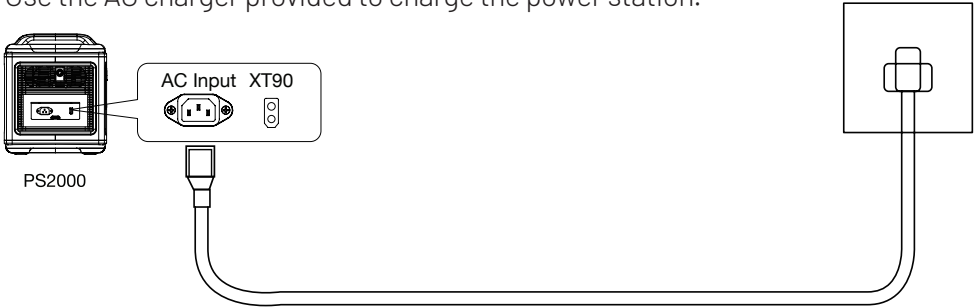
To use UPS mode, connect the power station between your wall outlet and the appliance, and ensure the unit is turned on.

**Note:** If the AC output exceeds the rated maximum in UPS mode, the AC overload indicator will illuminate on the display.

# CHARGING

## AC

Use the AC charger provided to charge the power station.

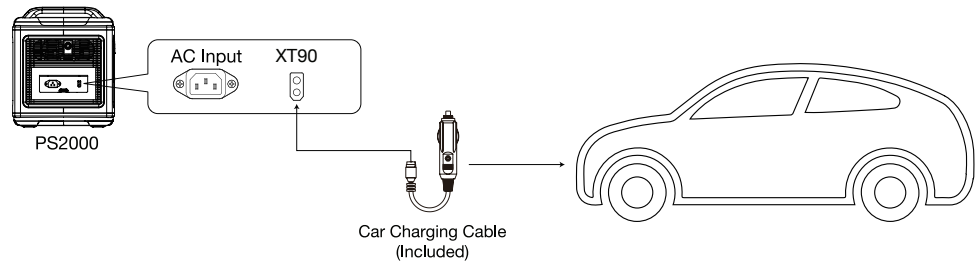


Model	Input Power
PS2000	1100W

**WARNING:** Charge directly via an AC 240V mains outlet only. Do not use extension cords.

## DC

The PS2000 can be charged via DC using the included XT90 to cigarette plug adapter, connecting to any standard in-vehicle cigarette socket.



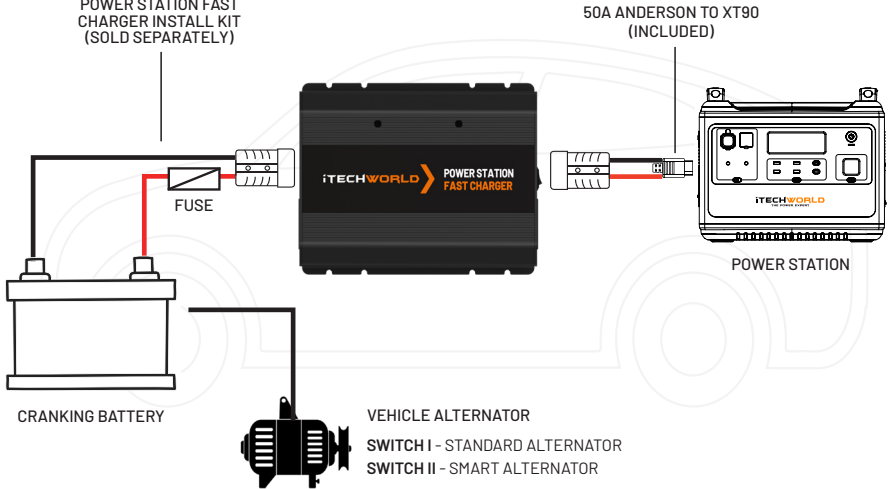
Model	Port Type	Current Max	Voltage Range	Power Max
PS2000	XT90	20A	11.5A - 50V	500W

# ALTERNATOR

The PS2000 can also be charged directly from your vehicle's alternator while driving via the Power Station Fast Charger (sold separately), making it easy to top up on the go.



POWER STATION FAST CHARGER INSTALL KIT (SOLD SEPARATELY)



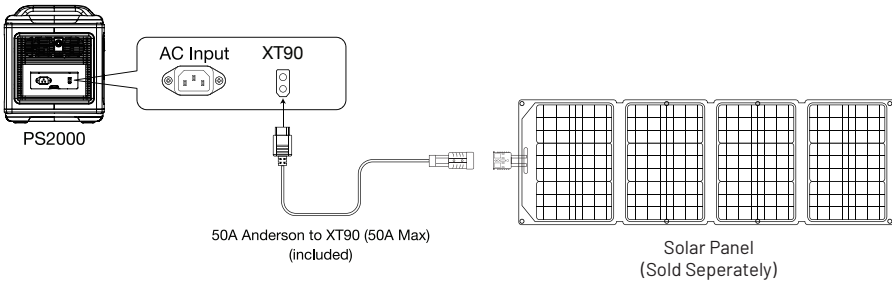
# SOLAR

The PS2000 has a built in solar controller, so you must connect unregulated solar panels directly via the XT90 input port using the included 50A Anderson to XT90 cable.

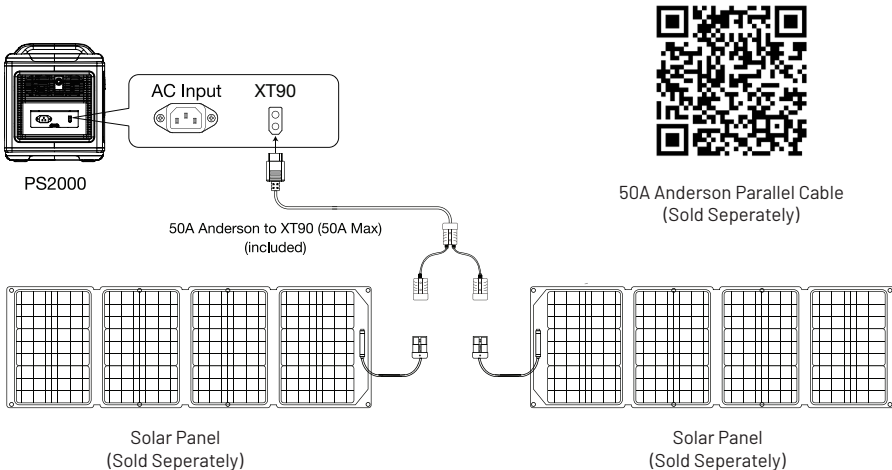
Solar panels can be connected in series or parallel depending on your setup, refer to the diagrams below for connection patterns.

**WARNING:** Do not use a regulated solar panel with this unit, as it already contains a built in controller. Do not exceed the maximum rated solar input voltage or power for your unit.

## Individual Connection



## Parallel Connection



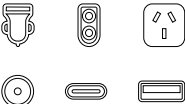


50A Anderson Parallel Cable (Sold Separately)

# SPECIFICATIONS

General Specifications	
Model (SKU)	ITW-BTPS2000
Dimensions (LxHxW)	392 x 279 x 323mm
Weight	22Kg
Capacity	2048Wh
AC Output	2400W
AC Output Frequency	50 / 60Hz Pure Sine Wave
AC Output Surge (5ms)	4800W
USB Output	2 x 12W
USB QC3.0 Output	2 x 18W
USB-C Output	2 x 100W
DC5521 Output	2 x 12V / 3A
XT60 Output	12V / 25A
Cigarette Lighter Output	12V / 10A
DC Input	11.5V – 50V 500W max
AC Input	1100W max
Shutdown Current	<0.5mAh
Working Temperature	-10°C ~ 40°C
Environment Humidity	≤90% RH
Cycle Times	>4000 times
Battery Specifications	
Cell Type	LiFePO4
Single Cell Rated Voltage	3.2V
Single Cell Rated Capacity	20Ah
Battery Pack Rated Voltage	51.2V
Battery Pack Output Voltage	43.2V-57.6V
Battery Pack Rated Capacity	2048Wh
Battery Pack Capacity @ 12V	170Ah

# TROUBLESHOOTING

## FAULT CODES

Issue	Possible Cause	Solution
 <p>These icons flash or beep.</p>	<p>The output has exceeded its rated capacity or a short circuit has occurred.</p>	<p>Remove all connected loads, then press the button in the corresponding area to stop the alarm.</p>
 <p>These icons flash or beep.</p>	<p>The unit temperature is either too high or too low.</p>	<p>Remove all loads, disconnect from charge, and turn the unit off. Allow it to reach operating temperature before restarting.</p>
 <p>This icon flashes or beeps and the unit does not charge.</p>	<p>The charging connection is not secure or faulty.</p>	<p>Check that all charging cables are properly connected to both the unit and the power source.</p>

# MAINTENANCE

1. Store the unit in a dry, cool, well-ventilated area away from direct sunlight, heat sources, and flammable materials.
2. Store at temperatures between  $-10^{\circ}\text{C}$  and  $40^{\circ}\text{C}$ .
3. Keep away from water, strong magnets, and environments with corrosive or flammable gases.
4. For long term storage, charge and discharge the unit once every 3 months, fully charge before storing. This maintains battery health over time.
5. Keep a minimum of 30cm of clear space around the ventilation and exhaust vents at all times. The internal cooling fans will activate automatically under high load or input, this is normal operation.

# SAFETY PRECAUTIONS

For safe operation and optimal performance, the iTechworld PS2000 must be operated correctly. Please carefully read, understand, and follow all instructions and guidelines in this user guide. Failure to follow these instructions may result in damage to the unit, property, death, or serious injury.

**Disclaimer:** While iTechworld has taken every precaution to ensure the accuracy of the contents of this user guide, iTechworld assumes no responsibility for any errors or omissions.

**Furthermore, all specifications and functionality may change without notice at any time.**

It is best to view our website for the most up to date information.

**THIS UNIT IS NOT WATERPROOF:** Do not use, charge, or store the PS2000 in wet conditions or near water. This includes rain, splashing, condensation, and high humidity environments. Water damage is not covered under warranty.

## **WARNING:**

This unit should not be used by people with physical, sensory, or cognitive impairments without appropriate supervision. Keep out of reach of children.

## **WARNING:**

Avoid use in extreme temperatures, direct sunlight, or near open flame.

**WARNING:** Only use cables and accessories recommended in this guide. Use of incorrect cables may result in damage, electrical shock, or fire.

## **WARNING:**

Turn the unit off and disconnect all cables when not in use.

## **WARNING:**

Do not use if the unit shows signs of damage or defect.

**DANGER:** Do not disassemble or modify the unit. Doing so will void your warranty and may result in electrical shock, fire, or serious injury.

**EXPLOSION HAZARD:**

Do not use in enclosed spaces where flammable fumes or gases are present, including near gas bottles, petrol engines, or lead-acid battery compartments.

**LIMITATIONS OF USE:**

This unit is not suitable for use with life support systems or medical equipment.

# iTECHWORLD

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## CONTACT US

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At iTechworld, we proudly lead the way in pioneering innovative off-grid power and battery solutions that bring cutting-edge technology to adventure seekers, remote workers, and outdoor enthusiasts across Australia. Since we began our journey all the way back in 2006, our passion has been to develop high-performance lithium batteries, solar panels, power stations, generators, and battery management systems tailored to caravans, camping, 4WDs, and off-grid living.

We believe in empowering people with reliable, portable, and efficient energy solutions, giving them the power they need—wherever their journey takes them. Our commitment to quality is unwavering, with every product rigorously tested to meet Australian conditions and backed by our knowledgeable power experts.

Driven by innovation, reliability, and sustainability, iTechworld is your trusted partner in power solutions, helping you stay powered anywhere, anytime.

**iTechworld. The Power Expert.**

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