

USER GUIDE

PS2800 PRO

PORTABLE POWER STATION



iTECHWORLD
THE POWER EXPERT

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OVERVIEW

The iTechworld PS2800 PRO Portable Power Station is a high-capacity, 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, with no complex wiring or messy installs.

The PS2800 PRO is built around a 2800W pure sine wave inverter and a 2160Wh LiFePO4 battery, giving you the headroom to run demanding appliances with ease. The battery pack can also be expanded with up to four additional EB2160 battery packs for up to 10800Wh of total capacity. An intuitive LCD display and built-in Bluetooth and Wi-Fi status indicators allow you to check charge levels and system status at a glance. From fridges and kettles to laptops and phones, the PS2800 PRO 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.

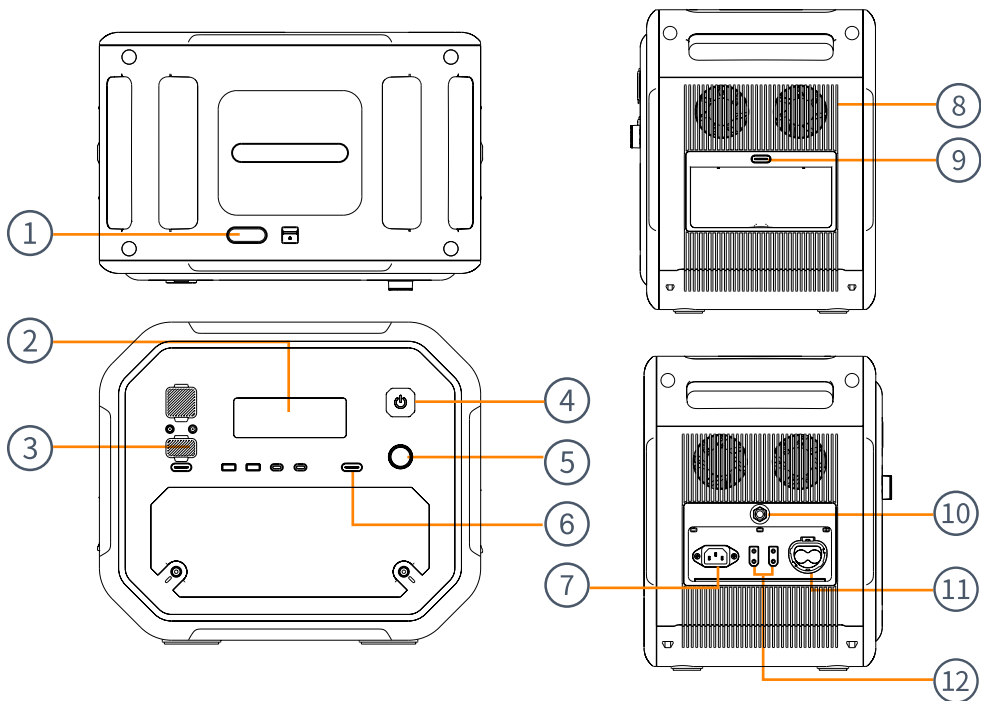
KEY FEATURES

- 2800W Pure Sine Wave AC output
- 2160Wh LiFePO4 battery, expandable to 10800Wh with up to four EB2160 battery packs
- AC, DC (car) and solar charging
- Two-way fast charging, with a full charge in as little as 1.5 hours
- Less than 10ms Uninterruptible Power Supply (UPS) switchover
- Bluetooth and Wi-Fi status monitoring
- Intuitive LCD display
- Multiple USB, DC, XT60 and cigarette lighter outputs
- Plug and play setup, with parallel battery expansion

PACKAGE CONTENTS

				
PS2800 PRO Power Station	XT90 to 50A Anderson Adapter	AC Input Cable	XT90 to Cigarette Plug	User Guide

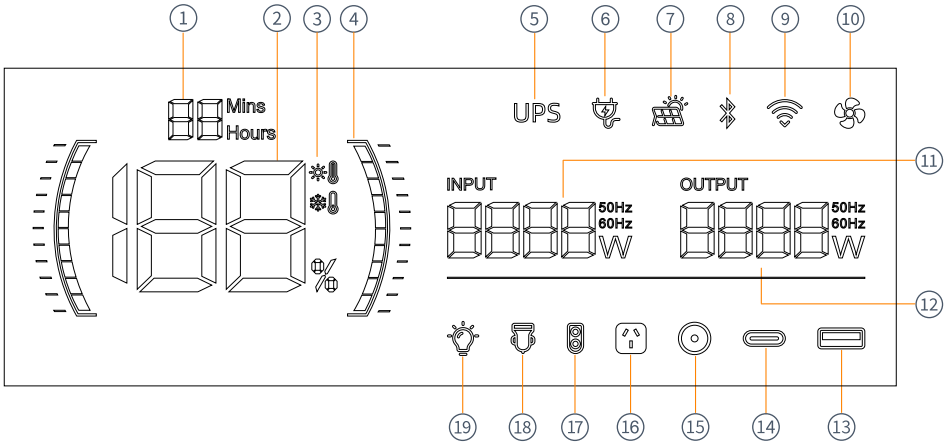
UNIT DIAGRAM



- | | |
|-----------------------------|----------------------------|
| ① LED CONTROL BUTTON | ⑦ AC INPUT PORT |
| ② LCD DISPLAY | ⑧ AIR INTAKE / OUTLET |
| ③ DC CONTROL BUTTON | ⑨ AC OUTPUT CONTROL BUTTON |
| ④ MAIN POWER CONTROL BUTTON | ⑩ OVERLOAD PROTECTION |
| ⑤ AC INPUT ADJUSTMENT DIAL | ⑪ PARALLEL PORT |
| ⑥ USB CONTROL BUTTON | ⑫ XT90 INPUT PORTS |

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

- 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



PS2800 PRO
Protective Cover



EB2160 Expansion
Battery



PS2800 PRO
Tray



XT60 to Anderson
Cable 25A



Power Station
Fast Charger



Anderson Wiring
Kit 60A 6AWG

OPERATION

BUTTON FUNCTIONS

The PS2800 PRO is simple to operate, with dedicated buttons for each output so you have full control at all times.

- **Power Control:** Hold for 3 seconds to turn the unit on or off.
- **Input Power Dial:** Turn clockwise to increase input power, or counter clockwise to decrease it, when charging from AC mains. Charging at a lower power is beneficial for extending battery life.
- **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 output 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.

To change output voltage, press the AC Control button briefly 10 times in quick succession.

- **Light Control:** Press to cycle through solid, SOS and flash modes. Hold for 1 second or more 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. Confirm there is no abnormality in any part, then turn the unit back on.
 3. Press the overload protection button to restore the AC output.

AC OUTPUT

Interface	Rated Power	Surge Power	Inverter Type	Frequency
1 x AC Outlet	2800W	5600W	Pure Sine Wave	50Hz / 60Hz

DC OUTPUT

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

USB OUTPUT

Interface	Rating
2 x USB-A QC3.0	2 x 18W
2 x USB-C PD3.0	2 x 140W

BLUETOOTH CONNECTION

The PS2800 PRO 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 PS2800 PRO features a built-in Uninterruptible Power Supply (UPS) mode. When connected between the wall socket and an appliance, with the unit powered on, the AC mains supplies the appliance directly through a bypass circuit while also charging the unit's battery.

While running on the AC mains bypass, the connected appliance's rated power must be lower than 2310W (220V-240V), otherwise overload protection may be triggered.

If the AC mains supply is disconnected, the unit switches to its bidirectional inverter circuit within 10ms, fast enough to keep sensitive electronics running without interruption.

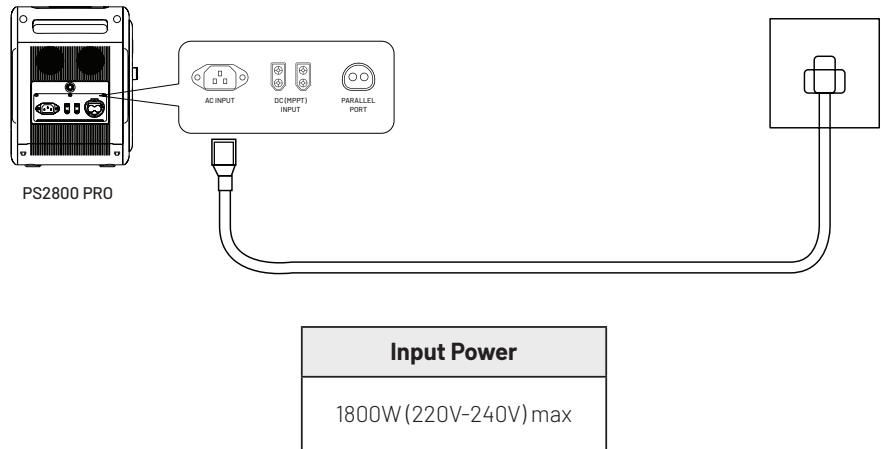
UPS Max
2310W

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

CHARGING

AC

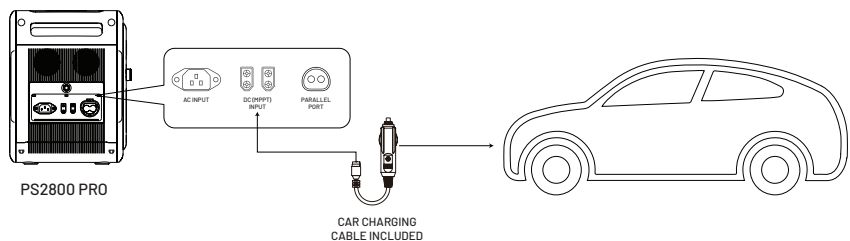
Use the AC charger provided to charge the power station. The unit features an adjustable input dial on the face of the unit, allowing the AC input power to be set ranging from 400W and 1800W.



WARNING: Charge directly via a wall socket only. Do not use extension cords or cable taps.

DC

The PS2800 PRO can be charged via DC using the included car charging cable, connecting to any standard in-vehicle cigarette socket via the XT90 input ports.

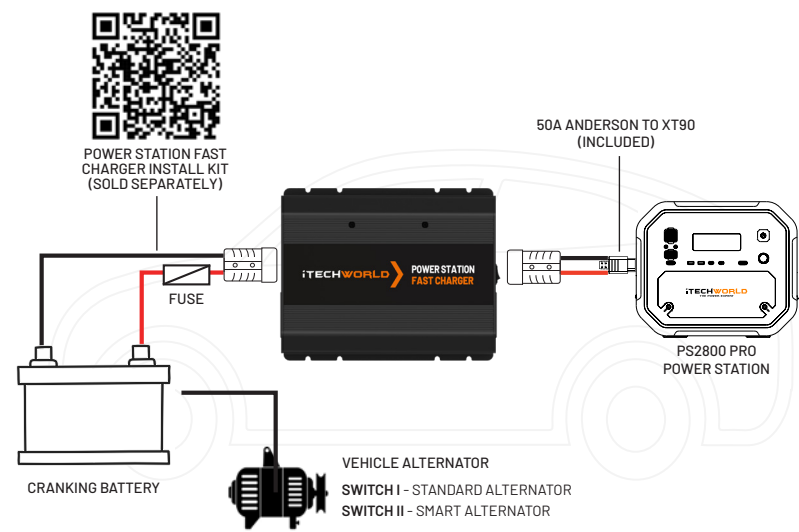


Port Types	Current Max	Voltage Range	Power Max
x2 XT90	20A	11.5V - 55V	600W

NOTE: Vehicle charging power is usually in the range of 90W-120W due to standard vehicle electrical limits. If faster charging is required, AC mains charging is recommended. Only use the car charging cable while the vehicle's engine is running, otherwise the car battery may be depleted.

ALTERNATOR

The PS2800 PRO 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.



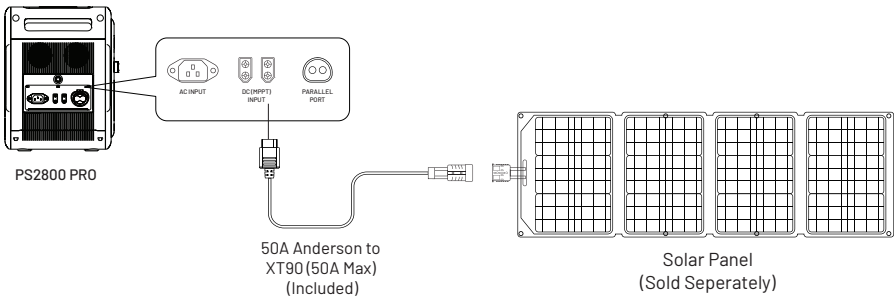
SOLAR

The PS2800 PRO has a built-in solar controller, so unregulated solar panels can be connected directly via the XT90 input ports using the included solar charging cable.

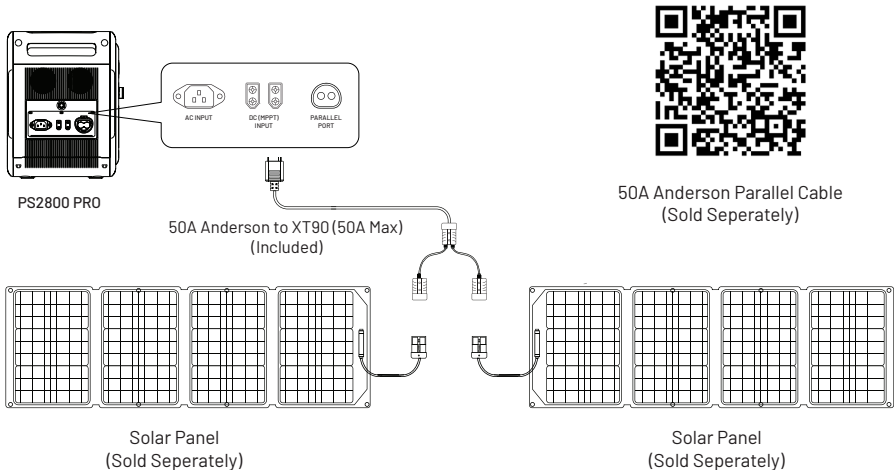
The unit supports solar input of up to 600W, and the input voltage must not exceed 55V, otherwise any resulting product abnormality will not be covered by the warranty.

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

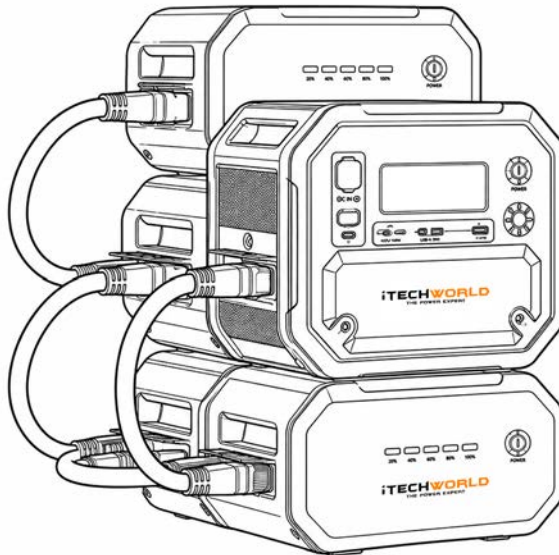


BATTERY PACK EXPANSION

You can connect the PS2800 PRO to a maximum of four additional EB2160 battery packs(sold separately), with a combined maximum capacity of 10800Wh, using parallel cables. Ensure that both the PS2800 PRO and the EB2160's are powered off before making the connection. Once the connection is complete, you will see each connected unit displayed on the screen.

After successful parallel connection, the PS2800 PRO can commence charging or discharging. Keep in mind, the PS2800 PRO will charge at a slower rate when it's almost full and will release power faster when used. If there's no incoming charge, the unit with a higher state of charge will charge the unit with a lower state of charge. The display will show the current power status.

Make sure not to connect or disconnect the parallel cable while the PS2800 PRO is operational. Only connect or disconnect the cable when the product is powered off to avoid any potential electrical hazards or malfunctions.



WARNING: Do not connect or disconnect the PS2800 PRO to an EB2160 whilst switched ON.

SPECIFICATIONS

General Specifications	
Model (SKU)	ITW-BTPS2800PRO
Dimensions (LxWxH)	398 x 269 x 336mm
Weight	21.7kg
Capacity	2160Wh (up to 10800Wh with 4x EB2160 battery packs)
AC Output	2800W
AC Output Frequency	50 / 60Hz Pure Sine Wave
Max UPS AC Output	2310W
AC Output Surge	5600W
USB-A Output	2 x 18W (QC3.0)
USB-C Output	2 x 140W (PD)
DC5521 Output	2 x 12V / 3A
XT60 Output	12V / 25A
Cigarette Lighter Output	12V 10A
DC Input (XT90)	11.5V-55V, 20A, below 600W max
AC Input	1500W (100-120V) / 1800W (220-240V) max
Shutdown Current	< 500µA
Working Temperature	-10°C ~ 40°C
Environment Humidity	≤90% RH
Cycle Times	>4000 times
Battery Specifications	
Cell Type	40135 LiFePO4
Single Cell Rated Voltage	3.2V
Single Cell Rated Capacity	15Ah
Battery Pack Rated Voltage	48V
Battery Pack Output Voltage	43.2V-57.6V
Battery Pack Rated Capacity	2160Wh
Battery Pack Capacity @ 12V	180Ah

TROUBLESHOOTING

FAULT CODES

Issue	Possible Cause	Solution
  These icons flash or beep.	The output has exceeded its rated capacity or a short circuit has occurred.	Remove all connected loads, then press the button in the corresponding area to stop the alarm.
  These icons flash or beep.	The unit temperature is either too high or too low.	Remove all loads, disconnect from charge, and turn the unit off. Allow it to reach operating temperature before restarting.
 This icon flashes or beeps and the unit does not charge.	The charging connection is not secure, or the overload protection has activated.	Check that all charging cables are properly connected. If the overload protection has triggered, follow the reset steps in the Button Functions section.

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°C and 40°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, and recharge to around 50% 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 (fan noise below 60dB is normal).
6. Do not disassemble or modify the unit. Improper operation may cause product malfunction.
7. Use only original accessories. Non-original accessories are not covered by the warranty.

SAFETY PRECAUTIONS

For safe operation and optimal performance, the iTechworld PS2800 PRO 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 PS2800 PRO 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.

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THE POWER EXPERT

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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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