

USER GUIDE

PS1800 PRO

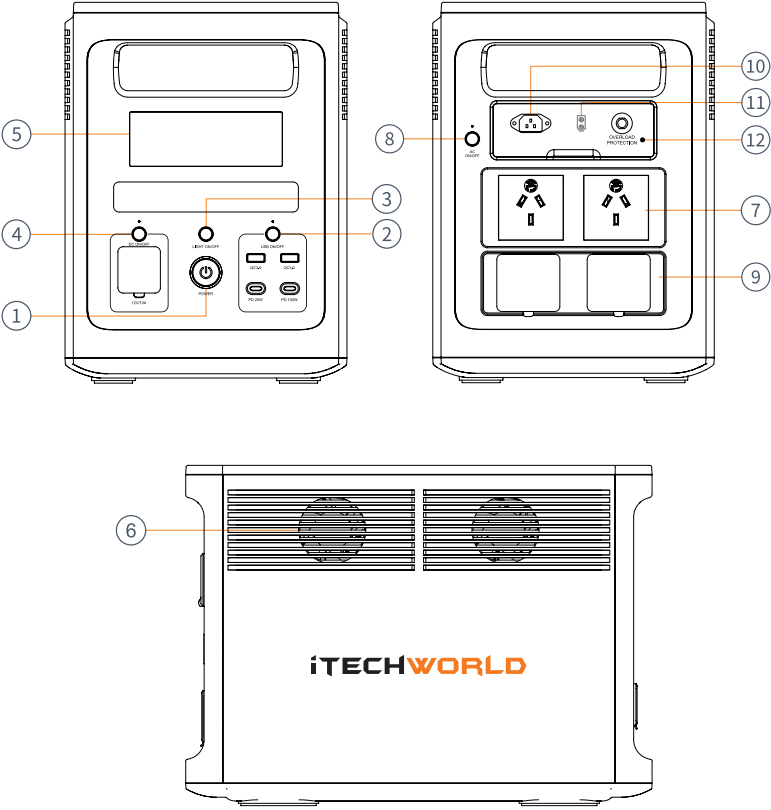
PORTABLE POWER STATION



CONTENTS

1.	Product Overview	3
	Overview	3
	Package Contents	3
	XT60 Port	5
	AC Input	6
	Overload Protection	6
	LCD Features	7
	UPS Mode	8
	UPS Connections	8
	EB1536 Connection	9
2.	Charging	10
	Solar Panel Charging	10
	AC Charger Charging	11
	Car/Vehicle Charging	11
3.	Fault Resolution	12
4.	Specifications	13
5.	Safety Precautions	14
6.	Contact Us	Back Page

PRODUCT OVERVIEW



Package Contents


XT60 to 50A Anderson

AC Charger

Car Charger

User Guide

Cable Storage Bag

- ①

MAIN POWER CONTROL
- ②

USB CONTROL
- ③

LIGHT CONTROL
- ④

DC CONTROL
- ⑤

LCD DISPLAY
- ⑥

AIR INTAKE/OUTLET
- ⑦

AC 240V OUTPUT PORTS
- ⑧

AC 240V OUTPUT CONTROL
- ⑨

PARALLEL PORTS
- ⑩

AC 240V INPUT PORT
- ⑪

XT60 INPUT PORT
- ⑫

OVERLOAD PROTECTION

POWER CONTROL BUTTON

This is the master power button, a long press to turn on and a long press to turn off the unit (hold the button until the screen turns on/off). When not in use, please turn the unit off.

USB CONTROL BUTTON

Make sure the power station is on before pressing the USB control button.
Operation: short press to turn on/off.

		
USB x 2	USB-C x 1	USB-C x 1
QC 3.0	20W	100W

LED LIGHT CONTROL BUTTON

Short press to turn on and change the light mode between solid/SOS/ flash. Long press to turn off the light while on any mode.

DC CONTROL BUTTON

Make sure the power button is on before pressing the DC control button.
Operation: short press to turn on/off.


Cig Output x 1
12V10A

LCD SCREEN DISPLAY

Informative LCD display presents the remaining power and use data. The LCD display will enter sleep mode after 30 seconds of inactivity and wake up when inputting charge or when any button is pressed. The device will remain active and won't enter sleep mode if it is either charging or discharging.

AIR INTAKE/OUTLET (BUILT-IN COOLING FAN)

The PS1800 PRO utilises an internal cooling fan to ensure it operates within the appropriate temperature range. When the PS1800 PRO experiences a high output/input, it automatically turns on the fan. The fan may turn on intermittently to keep the internal temperatures within the operating range. Please ensure you do not block or cover the vents.

WARNING:

Maintain a space of 30cm away from the side suction and exhaust vents to ensure proper heat dissipation.

AC 240V OUTPUT BUTTON

To activate the AC output function, simply press the AC button. Keep in mind that AC output frequency and voltage may vary depending on your location. If you need to adjust these settings, follow these steps:

1. Press and hold the AC button for 3 seconds to enter the frequency switching mode. You'll notice that the 50Hz or 60Hz icon will start flashing on the display.
2. Give the AC button a short press again to select between 50Hz or 60Hz. Wait until the flashing icon stops and displays your chosen frequency (either 50Hz or 60Hz), which indicates a successful switch.
3. To adjust the voltage, quickly press the AC button 10 times. This will allow you to cycle through available voltage options.

By following these steps, you can easily customise the AC output frequency and voltage to suit your specific needs.

XT60 PORT (SOLAR/CAR INPUT)

Use the included XT60 to 50A Anderson adapter to connect your solar panel. The maximum input of the solar panel is 1200W and the maximum voltage is 90V (do not exceed 90V).

The cable we've supplied has a maximum rating of 50 amps, be sure to not to exceed this limit unless you've upgraded the cable.

WARNING:

The XT60 port is an INPUT ONLY port.

AC INPUT

Use the included wall socket to get 1500W fast charging, which can fully charge the PS1800 PRO from 0 to 100% in 1 hour.

1. The PS1800 PRO should be charged directly by the wall socket, please do not use extension cords.
2. Do not use the same socket to connect other devices to when charging the PS1800 PRO. When a socket in a general household exceeds a certain wattage, the safety circuit breaker will activate.

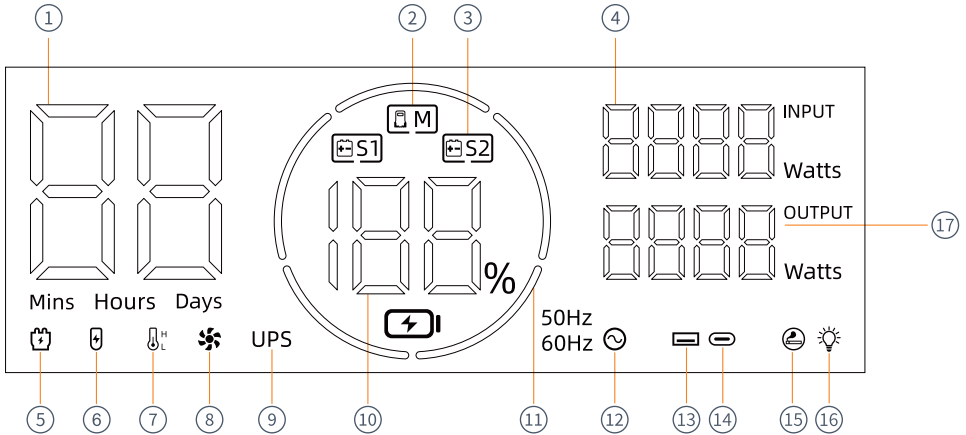
OVERLOAD PROTECTION

To safeguard the power station from potential damage resulting from excessive AC input current due to lightning or grid fluctuations, the overload protector is designed to activate and disconnect the AC input in such situations.

If the overload protector has been triggered, and you need to restore the AC input, please follow these instructions:

1. First, ensure that the PS1800 PRO is turned off, and unplug all connected devices and ports from it.
2. Confirm that all connected ports are in their standard, normal state.
3. Now, you can turn on the PS1800 PRO.
4. Locate and press the overload protection button. This action will re-engage the AC line and restore the AC input.

LCD FEATURES



- | | |
|-----------------------------|--------------------------------|
| ① REMAINING DISCHARGE TIME | ⑩ BATTERY LEVEL INDICATOR |
| ② EXPANSION BATTERY STATUS | ⑪ BATTERY PROGRESS BAR |
| ③ PARALLEL OPERATION STATUS | ⑫ AC OUTPUT STATUS |
| ④ TOTAL INPUT POWER | ⑬ USB OUTPUT STATUS |
| ⑤ AC CHARGING STATUS | ⑭ USB-C OUTPUT STATUS |
| ⑥ XT60 INPUT STATUS | ⑮ CIGARETTE PORT OUTPUT STATUS |
| ⑦ HIGH/LOW TEMPERATURE | ⑯ LED LIGHT STATUS |
| ⑧ FAN STATUS | ⑰ TOTAL OUTPUT POWER |
| ⑨ UPS STATUS | |

UPS MODE

The PS1800 PRO has a bypass function, which means power will not pass through the battery; it will be taken directly from the AC output.

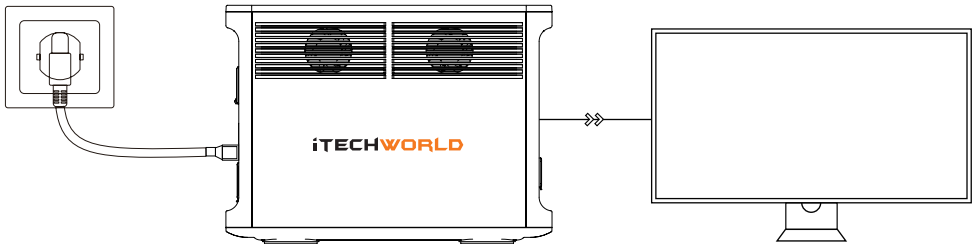
In this mode, the power source is the power grid, when there is an emergency power outage, the power source will switch to the battery within 10ms and protect the connected appliance.

UPS CONNECTIONS

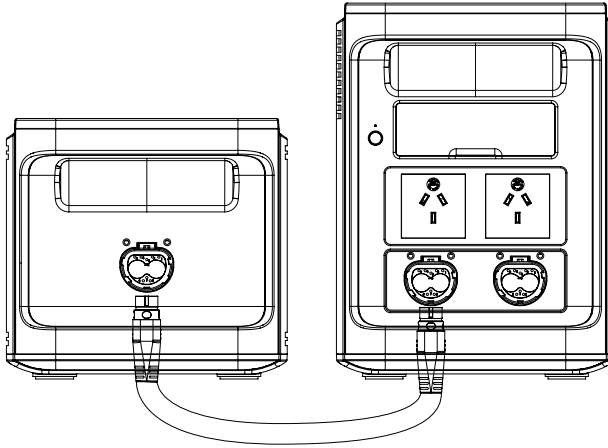
As shown in the figure below, connect the PS1800 PRO between the wall socket and the electrical appliances, ensuring the power of the PS1800 PRO is ON. When you turn on the electrical appliances, power will be taken directly from the grid.

In this state, when the power grid is cut off, it will automatically switch to the PS1800 PRO internal battery to supply power.

- In UPS mode, the maximum power output is 1800W.
- In UPS mode, if the AC output exceeds 1800W, the AC overload symbol will illuminate.



EB1536 CONNECTION



You can connect the PS1800 PRO to a maximum of two EB1536s (sold separately), with a maximum capacity of 4608Wh, using parallel cables. Ensure that both the PS1800 PRO and the EB1536's are powered off before making the connection. Once the connection is complete, you will see "S1" and "S2" displayed on the screen.

After successful parallel connection, the PS1800 PRO can commence charging or discharging. Keep in mind, the PS1800 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 PS1800 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 PS1800 PRO to an EB1536 whilst switched ON.

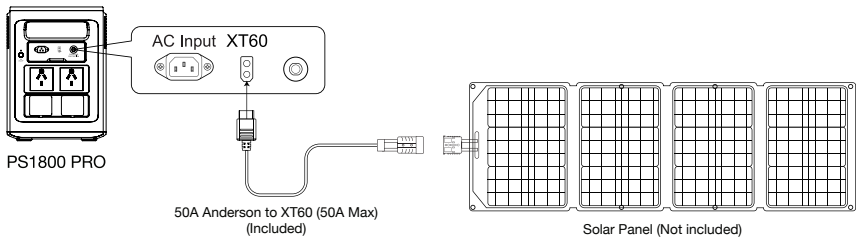
CHARGING

SOLAR PANEL CHARGING

1. Do not charge the PS1800 PRO via a solar panel that has a voltage exceeding 90V.
2. Supports 1200W max solar input (solar panels not included), the charging time depends on the solar panel input.
3. To ensure proper operation, please verify that there is no regulator in the line. You will need to input unregulated solar power into the PS1800 PRO as it already contains a built-in regulator.

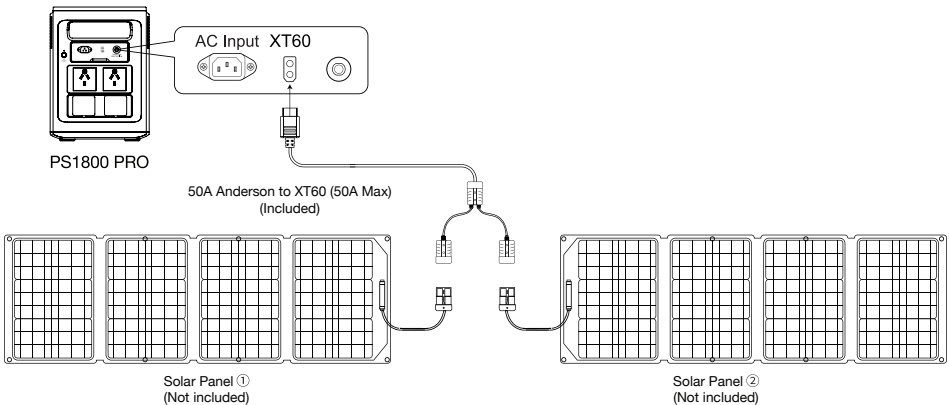
Connecting Pattern ①

THE AREA OF CHARGING



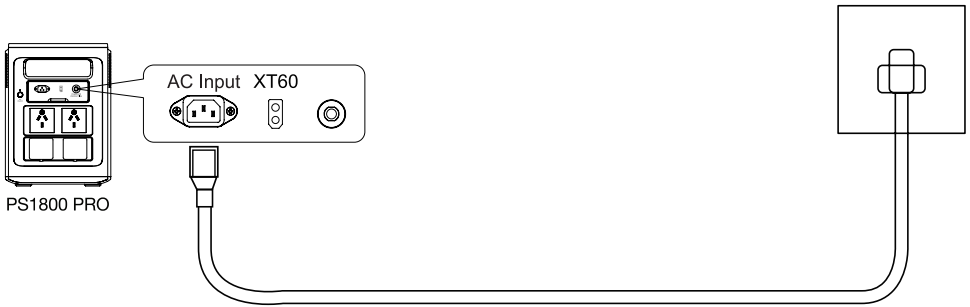
Connecting Pattern ②

THE AREA OF CHARGING



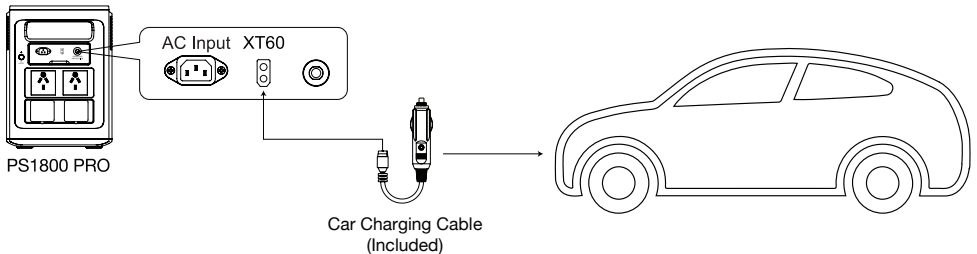
AC CHARGER CHARGING

Use the AC charger provided to charge this unit. It will only require 1 hour to fully charge the PS1800 PRO.

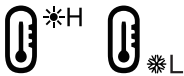


CAR/VEHICLE CHARGING

it's important to use the car charger that was provided with the unit for charging. Car chargers usually provide lower power outputs, typically around 90-120 watts. As a result, charging times may be extended. If you require a quicker charge, it is recommended to use the AC adapter that came with the device. The AC adapter provides higher power output and is better suited for fast charging.



FAULT RESOLUTION

Status	Explanation	Resolution
 Above icon flashes and buzzes	The output exceeds the standard and it's short-circuited.	1 - Begin by removing the output device. 2 - Next, check whether the overload protector is activated. If it's activated, follow these sub-steps: press the overload protection button, after that, press the AC output button. 3 - If the overload protector has not been activated, proceed as follows: directly press the AC output button to restore the output function.
 The temperature warning icon flashes and buzzes	The PS1800 PRO has surpassed the recommended temperature limit.	Remove all loads, disconnect the power source from this product, and wait for the unit to cool down to an appropriate temperature before proceeding (between -10°C~40°C).
 Charging unavailable	Bad wire connection.	Verify the connection status of the power line and the power supply to ensure they are properly connected.

SPECIFICATIONS

General Specifications	
Model name	PS1800 PRO
Dimensions	218 x 403 x 295mm
Weight	17.5Kg
Capacity	1536Wh
Max parallel capacity	4608Wh
XT60 input	12-90V 1200W max
AC output	50/60Hz (frequency switch available), rated at 1800W Pure Sine Wave. Built in overload and short circuit protection.
USB QC3.0	2 x 18W
USB-C	20W
USB-C	100W
Cigarette lighter output	12V/10A
Power off current	<500uA
Operating temperature	-10~40°C
Environment humidity	≤90%RH
Cycle life	4000 cycles
Battery Specifications	
Battery type	LiFePO4
Single cell rated voltage	3.2V
Single cell rated capacity	20Ah
Battery pack rated voltage	38.4V
Battery pack output voltage	35V-43V
Battery pack rated capacity	1536Wh

SAFETY PRECAUTIONS

For safe operation and optimal performance, the PS1800 PRO Portable Power Station 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 at any time without notice.

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

WARNING:

People with physical disabilities, visual, sensory, or mental impairments (including children) should not use this device. Children should be supervised to ensure they do not play with the power station.

DANGER:

Do not disassemble or modify the power station; doing so will result in your warranty being void, it may result in a risk of electrical shock, fire, death, or serious injury.

EXPLOSION HAZARD:

Do not use the power station in an environment where flammable fumes or gases are present (such as gas bottles, petrol engines, or lead-acid battery compartments).

WARNING:

Avoid using the power station in extreme temperatures, high humidity, direct sunlight, and near fire.

WARNING:

Please use the cables recommended in this user guide; otherwise, it may result in damage to the power station, a risk of electrical shock, fire, death, or serious injury.

WARNING:

Do not drop the power station.

WARNING:

When not using the power station, turn off the power and unplug the power cord.

WARNING:

Do not use the power station and its accessories to connect equipment if there is a defect.

WARNING:

Do not use the power station in an environment where it will get wet, the unit is not waterproof.

LIMITATIONS OF USE:

Do not use in connection with life support systems or other medical equipment or devices.

LONG TERM STORAGE:

For long-term storage, discharge the power from full to empty once every three months, and then recharge it to 80%. Ensure the power is turned off completely.

iTECHWORLD

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When it comes to energy storage and creation at iTechworld, we take pride in being one of the biggest names in the industry. Based in Australia, we are a family-owned and operated business. With many more innovative products on the horizon we are committed to constantly raising the bar to provide bigger and better benefits to all our customers Australia-wide.

Whether you're an avid camper, 4WD enthusiast, freedom seeker or camper, we've got your power needs covered. Escape the grid without compromise, minimise your downtime and travel with comfort with our large range of leading products at great prices.

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