

USER GUIDE

PS3600 PRO

PORTABLE POWER STATION

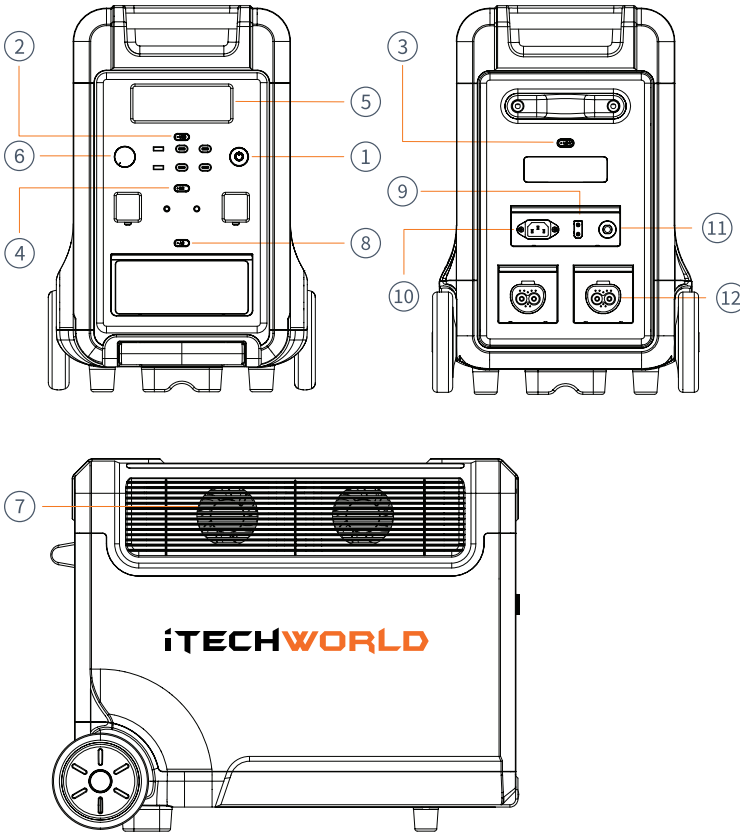


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THE POWER EXPERT






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PRODUCT OVERVIEW



Accessory List


XT90 to 50A Anderson

AC Charger

Car Charger

User Manual

Cable Storage Bag

- | | |
|--------------------------|-------------------------|
| ① MAIN POWER CONTROL | ⑦ AIR INTAKE/OUTLET |
| ② USB CONTROL | ⑧ AC 240V OUTPUT BUTTON |
| ③ LIGHT CONTROL | ⑨ XT-90 INPUT PORT |
| ④ DC CONTROL | ⑩ AC 240V INPUT PORT |
| ⑤ LCD DISPLAY | ⑪ OVERLOAD PROTECTION |
| ⑥ INPUT POWER ADJUSTMENT | ⑫ PARALLEL PORT |




BUTTON FUNCTIONS

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 3	 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.

 DC output x 2	 Cig output x 1	 XT60 x 1
12V/3A	12V/10A	12V/25A

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.

INPUT POWER DIAL:

When the PS3600 PRO is connected to the AC mains for charging, the power is automatically adjusted based on the actual input voltage. Turning the dial clockwise increases the input power, while turning it anti-clockwise decreases the input power. It's important to note that charging this product at lower power levels can be advantageous for extending battery life.

Recommended charge rate: 1600W

AIR INTAKE/OUTLET (BUILT-IN COOLING FAN):

The PS3600 PRO utilises an internal cooling fan to ensure it operates within the appropriate temperature range. When the PS3600 PRO experiences a high output/input load, 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 channel.

WARNING:

Maintain a space of 30cm away from the side suction and exhaust ports 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.

XT90 PORT (SOLAR/CAR INPUT):

Use the included XT90 to 50A Anderson adapter to connect your solar panel. The maximum input of the solar panel is 2000W and the maximum voltage is 160V (do not exceed 160V).

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.

AC INPUT:

Use the included wall socket to get 2200W fast charging, which can fully charge the PS3600 PRO from 0 to 100% in 2 hours.

1. The PS3600 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 PS3600 PRO. When a socket in a general household exceeds a certain wattage, the safety circuit breaker will activate.
3. Recommended charge rate: 1600W.

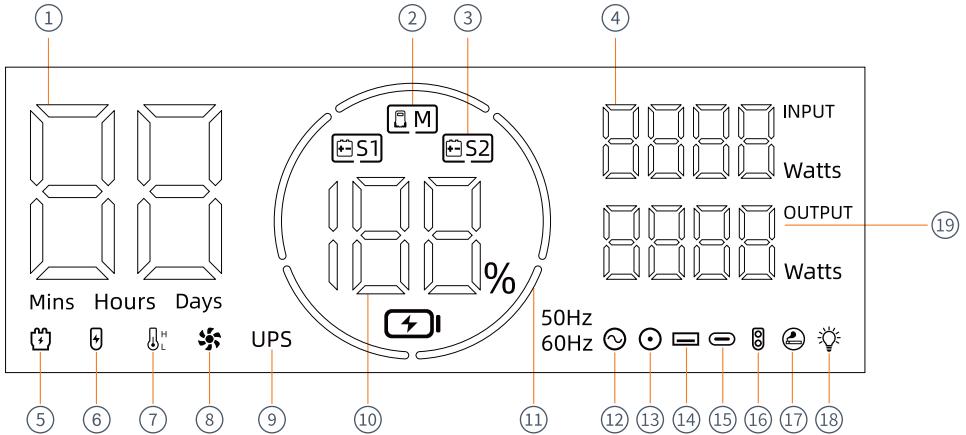
OVERLOAD PROTECTION:

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:


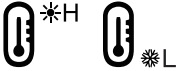

1. First, ensure that the PS3600 PRO is turned off, and unplug all connected devices and ports from it.
2. Confirm that all connected ports are in their standard, normal state.
3. Now, you can turn on the PS3600 PRO.
4. Locate and press the overload protection button. This action will re-engage the AC 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 DC OUTPUT STATUS |
| ⑤ AC CHARGING STATUS | ⑭ USB OUTPUT STATUS |
| ⑥ XT90 INPUT STATUS | ⑮ USB-C OUTPUT STATUS |
| ⑦ HIGH/LOW TEMPERATURE | ⑯ XT60 OUTPUT STATUS |
| ⑧ FAN STATUS | ⑰ CIGARETTE LIGHTER OUTPUT STATUS |
| ⑨ UPS STATUS | ⑱ LED LIGHT STATUS |
| | ⑲ TOTAL OUTPUT POWER |

FAULT RESOLUTION

Status	Explanation	Resolution
 <p data-bbox="98 485 285 533">Above icon flashes and buzzes</p>	<p data-bbox="333 405 529 485">The output exceeds the standard and it's short-circuited.</p>	<p data-bbox="557 309 949 336">1 - Begin by removing the output device.</p> <p data-bbox="557 365 1016 472">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.</p> <p data-bbox="557 501 1028 580">3 - If the overload protector has not been activated, proceed as follows: directly press the AC output button to restore the output function.</p>
 <p data-bbox="87 718 291 794">The temperature warning icon flashes and buzzes</p>	<p data-bbox="340 660 520 767">This product has surpassed the recommended temperature limit.</p>	<p data-bbox="557 660 1016 767">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).</p>
 <p data-bbox="87 912 291 940">Charging unavailable</p>	<p data-bbox="325 879 535 906">Bad wire connection.</p>	<p data-bbox="557 855 1033 932">Verify the connection status of the power line and the power supply to ensure they are properly connected.</p>

UPS MODE

The PS3600 PRO has a bypass function, which means power will not pass through the battery; it will be taken directly from the AC output.

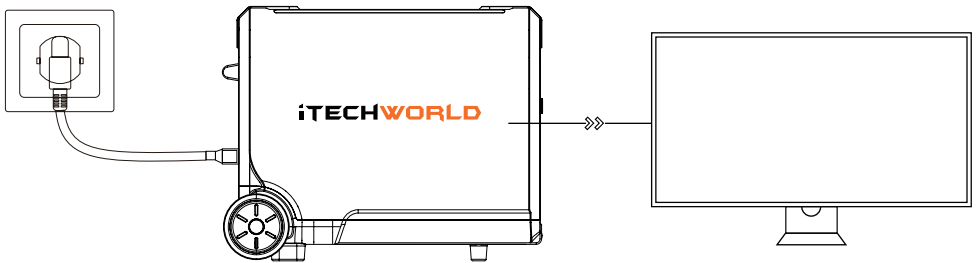
In this mode, the power source is the power grid, when there is an emergency power outage, the power source will switch to the battery within 10ms and protect the connected appliance.

UPS CONNECTIONS:

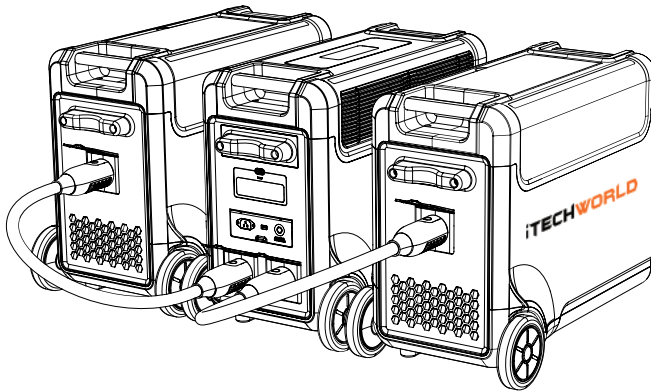
As shown in the figure below, connect the PS3600 PRO between the wall socket and the electrical appliances, ensuring the power of the PS3600 PRO is ON. When you turn on the electrical appliances, power will be taken directly from the grid.

In this state, when the power grid is cut off, it will automatically switch to the PS3600 PRO internal battery to supply power.

- In UPS mode, the maximum power output is 3600W.
- In UPS mode, if the AC output exceeds 3600W, the AC overload symbol will illuminate.



EB3840 CONNECTION:



You can connect the PS3600 PRO to a maximum of two EB3840s (sold separately), with a maximum capacity of 11,520Wh, using parallel cables. Ensure that both the PS3600 PRO and the EB3840'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 PS3600 PRO can commence charging or discharging. Keep in mind, the PS3600 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 PS3600 PRO is operational. Only connect or disconnect the cable when the product is powered off to avoid any potential electrical hazards or malfunctions.

WARNING:

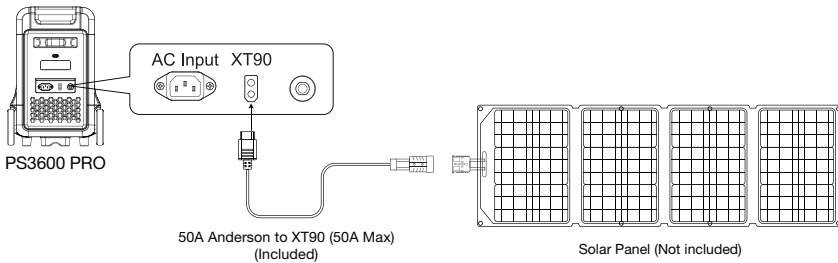
Do not connect or disconnect the PS3600 PRO to an EB3840 whilst switched ON.

SOLAR PANEL CHARGING:

1. Do not charge the PS3600 PRO via a solar panel that has a voltage exceeding 160V.
2. Supports 2000W 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 PS3600 PRO as it already contains a built-in regulator.

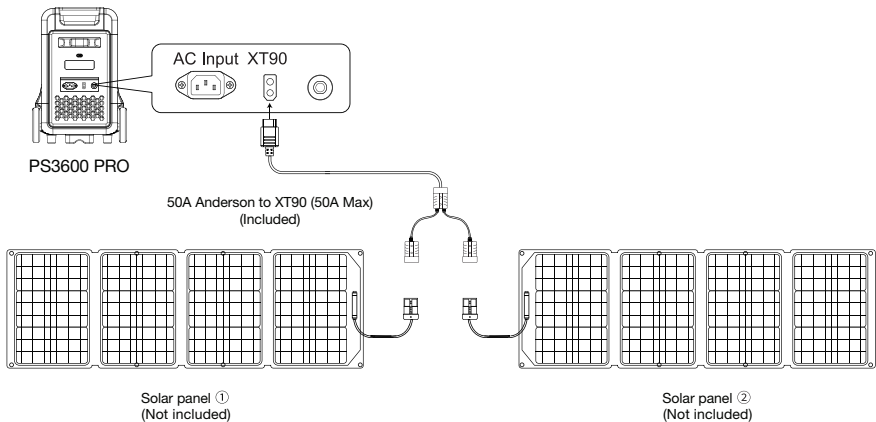
Connecting Pattern ①

THE AREA OF CHARGING



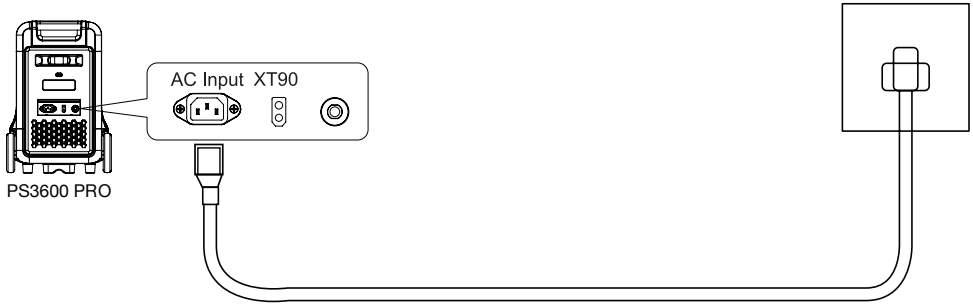
Connecting Pattern ②

THE AREA OF CHARGING



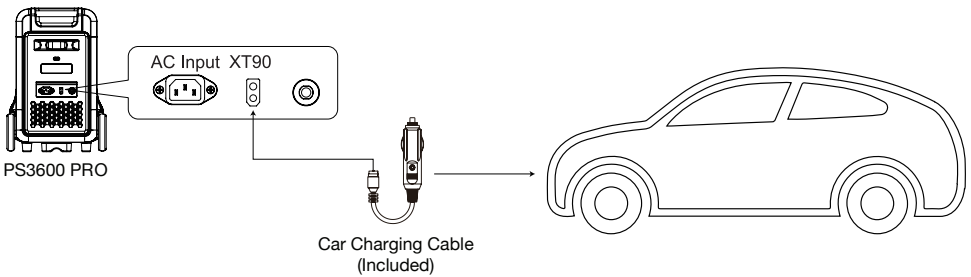
AC CHARGER CHARGING

Use the AC charger provided to charge this unit. It will only require 2 hours to fully charge the PS3600 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.



GENERAL SPECIFICATIONS

Model name	PS3600 PRO
Dimensions	550*321*464mm
Weight	42Kg
Capacity	3840Wh
Max parallel capacity	11,520Wh
XT90 Input	12-160V 2000W max
AC output	50/60Hz (frequency switch available), rated at 3600W Pure Sine Wave. Built in overload and short circuit protection.
USB QC3.0	2 x 18W
USB-C	3 x 20W
USB-C	100W
DC 5521 output	2 x 12V/3A
XT-60 output	12V/25A
Cigarette lighter output	12V/10A
Power off current	<500uA
Operating temperature	-10~40°C
Environment humidity	≤90%RH
Cycle life	>3500 times

BATTERY SPECIFICATIONS

Battery type	LiFePO4
Single cell rated voltage	3.2V
Single cell rated capacity	20Ah
Battery pack rated voltage	48V
Battery pack output voltage	40V-54V
Battery pack rated capacity	3840Wh

SAFETY PRECAUTIONS

For safe operation and optimal performance, the PS3600 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 wires 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.

DANGER:

Never smoke or allow a spark or flame in the vicinity of the power station. This may cause the battery to explode.

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 75%. Ensure the power is turned off completely.

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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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