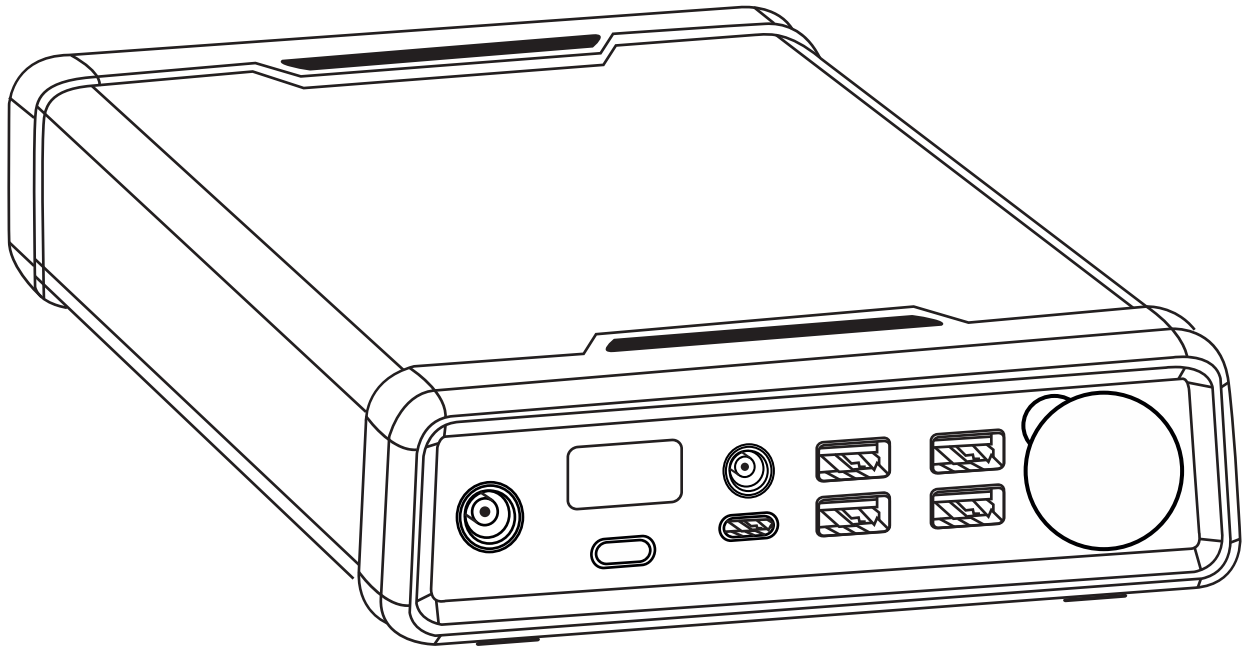




Polaroid

Instruction manual



PS300 Your mobile outlet to go Mobile Storage System

Thank you for purchasing PS300 from Polaroid. To safely use this device, please read this manual carefully and keep it (together with the warranty card) in a safe place. If you pass the mobile storage system on to another user, make sure that you hand over the instruction manual and warranty card as well. Please keep any additional documents together with this manual.



CHARGE FIRST! Before reading through the manual, you can begin to charge up your PS300 by connecting it to the power supply provided and plugging it in at the wall.



Noncompliance with the safety instructions may cause injuries due to fire, electric shock, etc.

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Appendix: Product warranty card

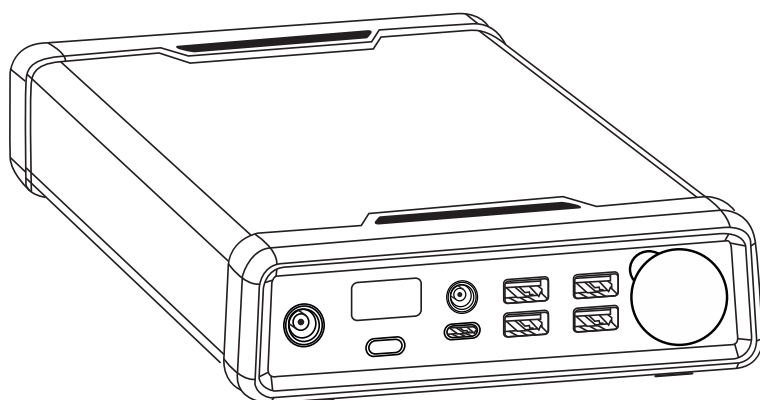


Instruction manual

PS300 Mobile Storage System

1. Set includes

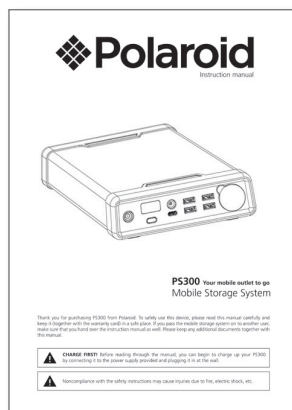
| No. | Item | Quantity |
|-----|--------------------------------------|----------|
| 1 | PS300 Mobile Storage System | 1 |
| 2 | AC Wall Charger (2 pieces) | 1 |
| 3 | Instruction manual and warranty card | 1 |
| 4 | 100W external inverter | 1 |



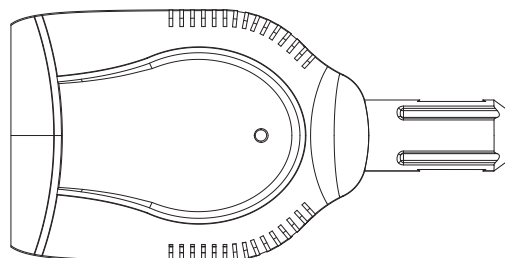
1



2



3



4

2. Introduction

Congratulations on purchasing Polaroid PS300 Mobile Storage System, a plug-and-play power supply for outdoor use. With 289.5 watt-hours of stored energy, you can keep appliances, or electronic devices running for hours.

The Polaroid PS300 Mobile Storage System is designed to keep you powered up outdoor in your RV during emergencies or power outages.

Note the following points while reading through this instruction manual:

- This manual was prepared with care and to the best of our knowledge. Contact us, should you have any questions relating to the product.
- This manual may not be copied or duplicated, except for personal use.





Disclaimer

- Our company cannot be held liable for damages caused by fire, earthquake, use by a third party, other accidents, intentional misconduct on the part of the customer, abuse or other abnormal conditions.
- Do not repair any damage to the AC plug or power supply on your own.
- The warranty covers all terms and conditions of the warranty. Contents that are not specified in the warranty terms and conditions are beyond our responsibility.
- Our company assumes no liability for damages caused by incorrect use or non-compliance with this instruction manual.
- This instruction manual can be downloaded as a PDF file on our website:
www.polaroidenergystorage.com.
- **Intended use:** The Polaroid PS300 Mobile Storage System unit is intended as a power supply for electronic devices with a maximum power consumption of 100 W. Our product is not suitable to be used with equipment that relates to one's own personal safety and relies heavily on electricity, such as medical devices, equipment for nuclear facilities, the manufacture of air and spacecraft, etc. We therefore assume no liability for accidents involving personal safety, fires or machine failures caused by using our product with the aforementioned devices.

3. Safety instructions

Observe these instructions to ensure safe usage.

Explanation of symbols

| | | |
|---|--|--|
|  | This symbol together with DANGER means | Noncompliance may very likely lead to serious injury or death. |
|  | This symbol together with WARNING means | Noncompliance may lead to serious injury or death. |
|  | This symbol together with CAUTION means | Noncompliance may lead to injuries and/or property damage. |
|  | This symbol together with ATTENTION means | Noncompliance may damage the unit. |

- **Serious injuries** include blindness, burns, electric shock, fractures, poisoning, etc., which can lead to complications, hospitalization or permanent treatment.
- **Injuries** include burns, electric shock, etc., which do not lead to hospitalization or permanent treatment.
- **Property damage:** includes buildings, belongings and pets, etc.

A warning label has been attached to the PS300 unit to ensure its safe use. Use the unit only in accordance with the manual and the instructions provided on the label.

Make sure that the label is always clean and legible and do not remove it.



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Danger

Do NOT disassemble, repair or modify the unit or the battery.

Doing so may result in electric shock, fire, etc.

Do NOT place the unit close to or in a fire or expose it to heat. Keep out of direct sunlight.

Doing so may result in fire or injuries.

Do NOT charge, use or store the unit in a bathroom or in an area exposed to rain or moisture.

Doing so may result in electric shock, fire, etc.

Only use the output socket to power external devices. Never connect the output to mains power under any circumstances.

Connecting to the mains may lead to electric shock, injuries or fire.

Do NOT touch the unit or the plug-in points if your hands are wet.

Doing so may result in electric shock.

Do NOT connect any metallic objects to the AC input or output.

Doing so may result in electric shock, fire, etc.

Do NOT rub your eyes if fluid from inside the unit should get in your eyes.

If this should occur, flush eyes with water and seek medical attention immediately. This can lead to blindness.

Do NOT dispose the unit together with household waste.

Follow the local law to dispose the unit.

Do NOT use any inappropriate power cords.

Doing so may result in electric shock, fire, etc.

Do NOT operate the unit above the specified input voltage.

Doing so may result in electric shock, fire, etc.

Do NOT use the unit if it is not functioning correctly.

Doing so may result in electric shock, fire, damage to the unit, etc.

Do NOT move the unit if it is recharging or in use.

Doing so may result in electric shock, damage to the unit or other injuries.



Warning

Use and store the unit only in a clean and dry environment. Do not use and store in dusty and wet environment.

Failure to do so may result in a short circuit, smoke or fire if metal dust or small metallic parts come in contact with the connections.

Check the unit prior to every use. Do not use the unit if it is damaged, broken.

If you notice that the unit has any damage or cracks, is broken, or has other abnormalities, do NOT continue to use the unit and contact your dealer or our customer service center.

Do not use the unit if the power cord is damaged or broken.

Keep the unit away from children. Do NOT let children use the power supply unit.

Doing so may result in an accident or injuries. This unit must not be used by children. The unit and its connection cables must be kept out of reach of children. Children must not play with the unit.

This unit may only be used by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they are monitored or have been instructed in how to safely use the unit and understand the resulting risks.

Keep this product away from pets.

Do NOT use or store the unit in an area or environment with high temperature.

Doing so may cause the unit to deform or overheat.

Should fluid from inside of the unit come in contact with your skin or clothing, wash the affected areas with tap water.

Contact with the fluid may result in injuries.

In a storm, unplug the power cord from the socket.

A storm may result in an overcurrent coming from the socket, resulting in overheating, fire or other accidents.

Do NOT charge the unit via power supply systems that operate outside of 100-240V.

That may otherwise result in overheating, fire, etc.

Do NOT place the unit on its side or upside down while in use or storage.

Doing so may result in leakage or cause the unit to overheat leading to other accidents.



Caution

If rust, peculiar odors, overheating or other abnormal circumstances are observed, stop using the unit immediately and contact the dealer or our customer service center.

The unit complies with all legal requirements for transport of dangerous goods.

The capacity of the lithium battery pack in the unit exceeds 100 Wh.

Based on international standards: If this unit is to be sent by airplane, it must be transported in accordance with IATA standard packaging. IATA instructions and labelling requirements and the relevant declarations must be completed.

Make sure that the unit is properly secured when transporting it in a motor vehicle.

Failure to do so may result in damage to the unit, electric shock, overheating, fire and other accidents.

Only charge, use and store the unit within an ambient temperature of 0 to 40 °C (32 - 104 °F).

Operating the unit above or below this temperature range may result in overheating or reduced performance.

Switch the unit off immediately if it has accidentally fallen, was dropped or was exposed to vibrations.

To prevent accidents, please contact the dealer or our customer service center to have the unit checked and repaired.

Carefully read the instructions for the electric devices that you intend to connect to your power supply unit.

Make sure that the device you are connecting is switched off before you connect it.

A device starting up suddenly may lead to accidents or injuries.

If the protective function is activated and the output of the device is switched off, disconnect the electric devices from the power output. Switch the unit off in case of non-use/storage in order to prevent electric shock and the battery from discharging unnecessarily, etc.

4. Lifting and transportation

1. Carry the unit with both hands.



Keep the unit away from other objects when moving.



Take extra care to ensure that the unit is never allowed to fall to the ground.

2. Placing the unit on a stable surface.



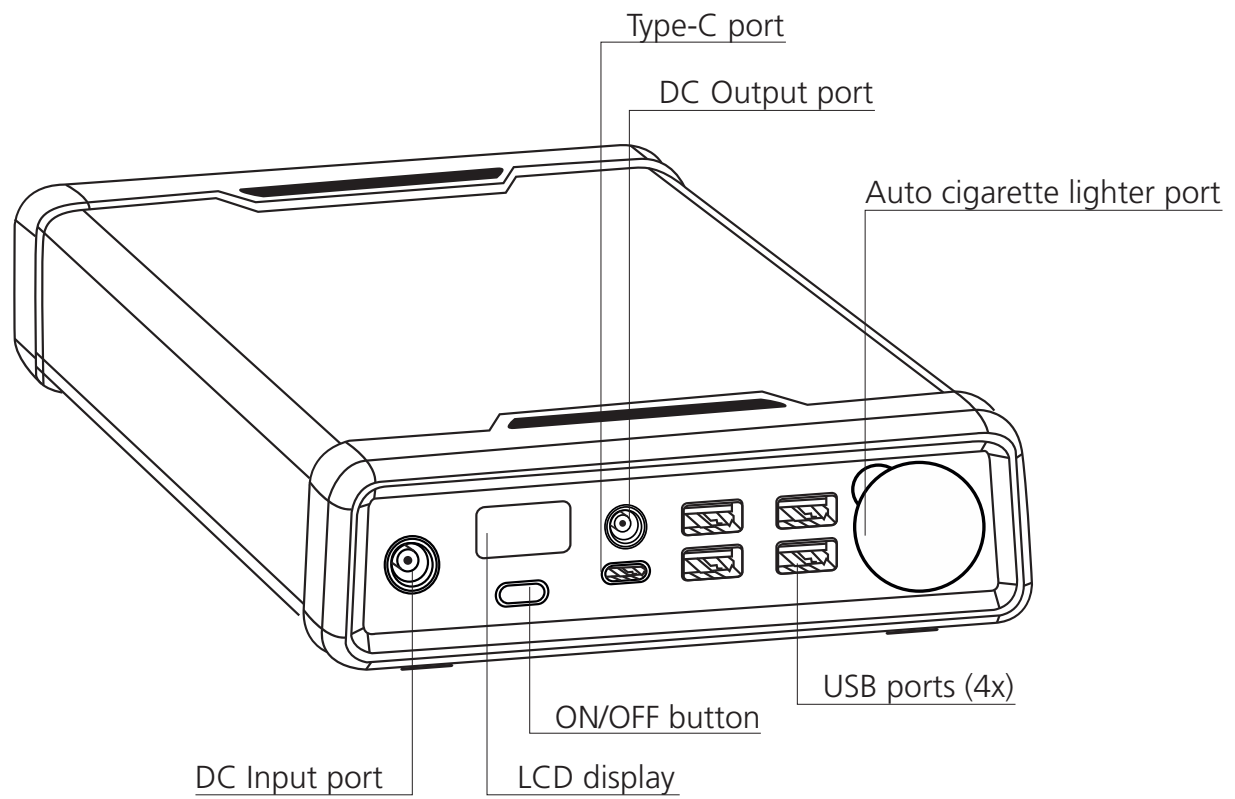
Place the unit on a stable surface.
By doing so, it is easier to read the indicators.

3. Transporting the device.



The unit should not be subjected to any impact or vibrations.
Otherwise there is a risk of fire.
Keep the unit's original packaging and use it when you need to transport the unit.

5. Get to know your PS300



6. Charging

Before use or storage, plug your PS300 into the wall until it is fully charged. If the display shows less than 20% capacity, plug it into a power source, like an AC outlet or a solar panel as soon as possible.



ATTENTION

Only charge the unit when the ambient temperature is between 0 and +40 °C (32 - 104 °F).

6.1. What it can power



3W Light



Phone



Laptop

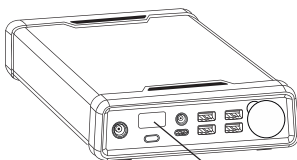


Television

...and many more

6.2. LCD battery display

The LCD Display indicates the percentage of total charge remaining in your PS300.



LCD Display



NOTE

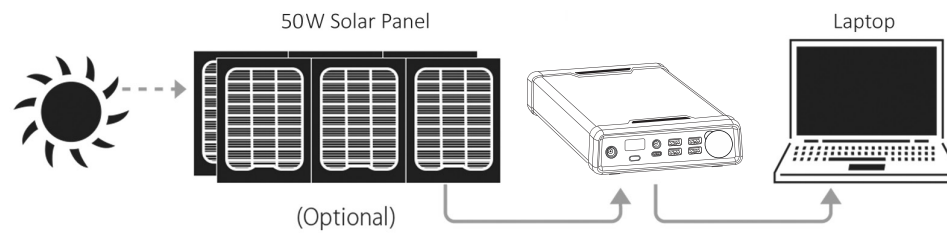


Charging time may vary depending on the ambient temperature involving the solar charger.
End the charging process by switching off the unit and pulling the plug out of the socket.

6.3. Charging via solar panel (not included)

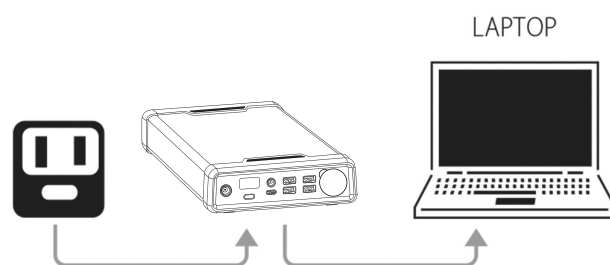
The 8mm input port is compatible with Polaroid SP50 solar panels with an input voltage of 18V.

1. Place your solar panel where it will get as much direct sunlight as possible. See the graphic in the solar section for help.
2. Solar charge times depend on weather conditions.



6.4. Charging via mains power supply

Use the AC wall charger provided and plug your PS300 into any outlet. When the digital indicator shows 100, your device is fully charged. It will be fully charged after 7-8 hrs.



The AC wall charger consists of two pieces.
Connect the two pieces by plugging the cable into the box.



7. Using the PS300

What to power from PS300

- USB: Smartphones, Digital Cameras, E-Readers, Tablets, Consoles, etc.
- 12V: Lights, DC devices etc.
- AC: Laptops, Display Monitors, Appliances, etc.

How to use PS300

1. Press the power button underneath the LCD display.
2. You'll know your device is working when the LCD displays the percentage charge remaining.
3. Plug in your device for mobile power.

Best-use strategy

- When charging devices with PS300, take note of the LCD Display.
- If you plug in devices that have a high power requirement, the charge level of PS300 can drop quickly and you may not get be able to extract the entire 289.5 Wh of energy.
- If you're charging devices that draw power slowly (e.g., a tablet), you will be able to extract close to the full 289.5 Wh out of PS300. If you're experiencing shorter run times, you can check the device's power requirements.

Appropriate temperature usage

- Cold temperatures can impact both the PS300 battery capacity and the output power.
- The PS300 can power your devices at temperatures ranging from 0 - 40°C (32 - 104 °F). If your working temperature is outside this range, the PS300 may stop working.



Make sure that the electronic device you are powering works properly prior to use.
The max. power consumption for electronic devices is 100 W.
Due to the different types of electric devices, it is possible that they may not operate
even if their power consumption is less than 100 W.

8. Technical specifications

| Charge times | |
|-------------------------|--------------------|
| Wall charger (12V 3.5A) | 8.5 hrs |
| Solar panel (50 W) | 6-7 hrs (Full Sun) |

| Battery | |
|-------------------|--|
| Cell type | Lithium-ion |
| Pack capacity | 289.5 Wh |
| Lifecycles | >300 |
| Management system | Temperature control, Surge protection, Short circuit protection |

| Ports | |
|-------------------------|-----------------------|
| 1x DC (input) | 12V, 3.5A |
| 4x USB ports (output) | 5V, 2.4A (Total 4.8A) |
| 1x Type-C port (output) | 3A max. |
| 1x DC car outlet | 12V, 10A |
| 1x DC outlet | 12V, 3A |

| General | |
|-----------------------|-------------------------|
| Weight | 2,11 kg (4.65 lbs) |
| Operating temperature | 0 - 40 °C (32 - 104 °F) |
| Certificates | FCC, ROHS, UN38.3 |
| Warranty | 24 months |

9. Solar panels

PS300 makes it easy to recharge your device using solar power – we didn't invent solar power, we perfected it. Some things to keep in mind when recharging your device using solar power:

1. Solar panels don't store energy from the sun, they collect it.

Use your solar panel to charge your PS300 so that you can use it day or night to power your devices.

2. Not all solar charge times are created equal.

Most solar panel manufacturers calculate recharge times using the following equation:
Devices Watt Hours / Solar Panel Watts = Solar Recharge Times.

So theoretically, a 13 watt solar panel would charge a 50 watt-hour battery pack in 3.84 hours ($50/13 = 3.84$) – and this is the number you could find in marketing material for a solar panel. However, in order to standardize results across all manufacturers, these tests are completed in laboratory settings. The truth is, on a good, sunny day, you'll received about 50-75% of your solar panel's rated wattage.

3. Solar panels generate power even in overcast conditions.

Solar panels utilize IR, UV, and visible rays from the sun that can penetrate through clouds. Although the efficiency of the solar panel will decrease in cloudy conditions, you'll still be collecting valuable energy from the sun.

4. Don't place the solar panel in shaded areas or behind windows.

Although you should seek out the shade on sunny days, your solar panels will collect more energy when fully exposed to the sunlight. Windows also have a habit of decreasing efficiency. So keep those panels outside and in the bright sunlight.

5. Proper alignment works wonders.

Keeping your solar panel angled toward the sun can dramatically increase solar efficiency. Set it up and let mother nature do the rest.

10. Troubleshooting

If your device is not being powered correctly or isn't charging when connected to your PS300, check the remaining charge by pressing the ON/OFF button.

1. Ensure the device has been switched on and the LED is showing the percentage of remaining charge.
2. Check the battery display. If it is at 20% or below, recharge your PS300.
3. Verify your device is suitable for use with the PS300.
 - a. All PS300 output ports have their own max. power. Check the PS300's technical specifications to ensure your device is compatible.

What should I do if the unit gets wet?

Immediately turn off the unit and wait until you are certain that it is completely dry before turning it back on. If you are unsure about when it is safe to turn it back on, please contact after sales service.

11. Storage

1. Charging to maximum capacity

Fully charge the power supply unit prior to long-term storage. Charge the power supply unit at least once every three months.

2. Turn off all switches

As soon as the PS300 power supply unit is charged fully, switch off the main switch and the other ON/OFF buttons and disconnect the adaptor from the main unit.

3. Cleaning

Wipe away any dirt using a damp cloth.



Gasoline, thinner, kerosene, petroleum, etc. have the characteristics of solvents.
Do not use.

4. Storage

Store the power supply unit only in a dry and dust-free environment which is out of reach of children. Suitable storage temperature: 0 to 40°C (32 - 104 °F). Keep out of direct sunlight. Make sure that the unit rests on a stable surface.

12. Service life of lithium ion batteries

Charge, supply current and store between 0 and 40°C (32 - 104 °F).

Using the battery at temperatures outside the lower and upper limits reduces the battery's running time.

Do not connect a continuous load of more than 100 W.

The unit's output stops automatically in case of overloading, since it reduces the running time of the battery.

Do not continue to charge the battery after it has charged completely.

Pay attention to the indicated capacity. Do not charge the battery once it has been fully charged or the charging process has been concluded. Otherwise the service life of the lithium battery may be reduced.

Switch off the unit if it is not being used.

Unnecessary power consumption also reduces the running time of the lithium battery.

Fully charge the battery prior to placing it in storage.

Fully charge the power supply unit prior to lengthy periods of non-use for storage and recharge the unit. After prolonged storage, it may be necessary to charge and discharge the battery several times in order to reach full capacity.

13. Frequently Asked Questions (FAQs)

What type of battery is in a PS300?

PS300 contains a battery pack which consists of an array of cylindrical 18650 LG lithium battery cells with high energy density.

How do I know if my PS300 is charged?

To check the charge level of the PS300, refer to the LCD Battery Display.

Can I charge the PS300 while supplying power at same time?

The PS300 power supply unit can be used to charge the devices during the charging process of the unit itself.

Can I take my PS300 on a plane?

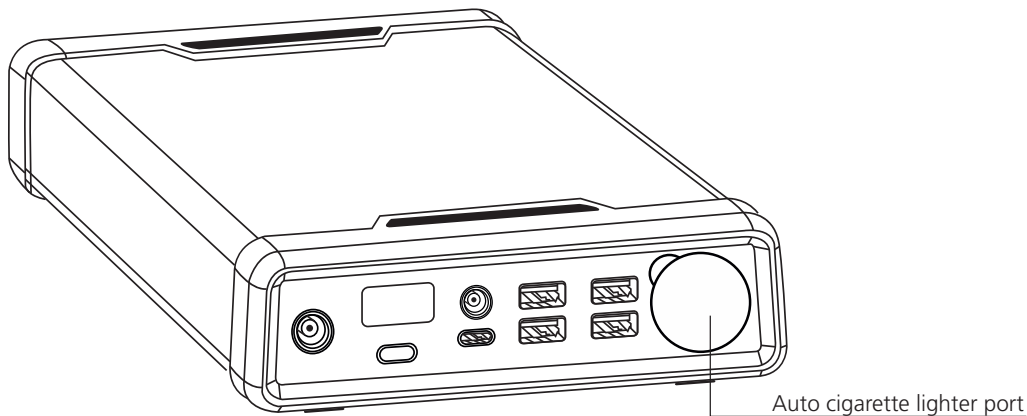
No, you can't. PS300 contains a large number of lithium-ion batteries with a capacity considered to be hazardous by airlines.

How do I know if my device will work with the PS300?

You will need to check the amount of power your device requires. This may require some research on your end. An online search or examining the user guide for your device should suffice. To be compatible with the PS300, you should use devices that require less than 100 W.

How do I connect my PS300 to the external inverter?

Insert your Polaroid 100W inverter into the cigarette lighter output of your PS300 in the same way you would with your car's cigarette lighter.



How long will the PS300 run my device?

Here are some common devices and their power requirements.

| Device | Power from PS300 |
|--------------------|------------------|
| LED Light (3 W) | ~90 hrs |
| Smartphones (5 W) | ~60 recharges |
| Laptop (60 W) | ~4 recharges |
| Console (95 W) | ~3 hrs |
| Mini Fridge (70 W) | ~4 hrs |

When you're deciding on what to power using your PS300 recharge, do some research into your device's power consumption. For more quick tips and learning tools, please email our customer service for help.

NOTE

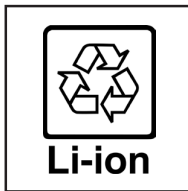
The above data are to be used only as reference points.
The approximate values were determined at an ambient temperature of 25°C (77°F) and with a fully charged battery. These values may vary, depending on the manufacturer of the electric device, unit, etc.

Certain types of devices may not operate, even if the output of the power supply unit is below 100 W.

In case of overload, the unit switches off automatically and the output is interrupted.

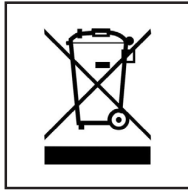
Desktop computers, and other devices with high power consumption, as well as household devices with fluctuating power consumption or with power factor correction may not operate normally or at all, even if their specified operating power is below 100 W.

14. Disposal and recycling



Lithium ion battery

As soon as the end of the battery's service life is reached, the entire lithium ion battery can be recycled. Do not open or disassemble the unit.



Electric device

Old electric devices may not be disposed together with normal household waste. According to the directive 2012/19/EU, the device must be disposed of in a controlled manner at the end of its service life. The recyclable materials contained in the unit shall be sent to recycling to reduce the burden on the environment.

This unit contains lithium ion batteries. These are hazardous materials and are subject to specific transport and handling regulations. Lithium ion batteries may ignite or explode if handled incorrectly.

For the safe disposal of the unit, contact a collection point or your local municipality for more information and indicate that the unit contains lithium batteries.

Package

The product package consists of recyclable materials. Dispose of these in an environmentally friendly manner and sort the materials in the provided collection systems.

15. Warranty and customer service

Contact distributor for technical support/customer service

| USA [Style Asia Inc.] | | |
|---|----------------------------|--|
| 101 Moonachie Ave Moonachie, NJ 07074 USA | Toll-Free: 888-765-5428 | E-Mail: polaroidenergy@digitalsupportdesk.com |

| EUROPE [GBT GmbH] | | |
|---|---------------------------------------|---------------------------------------|
| An Gut Nazareth 18A 52353 Düren Germany | Telephone: +49 (0) 2421 / 20 85 60 | E-Mail: info@gbt-international.com |

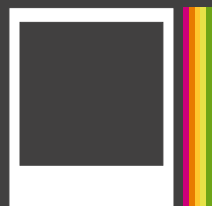
| AFRICA [GBLT South Africa] | | |
|---|-------------------------------------|--|
| Unit 94 & 96 Allandale Business Park CNR Morkels & Le Roux Halfway House Midrand, Johannesburg South Africa | Telephone: +27 (0) 11 / 516 0001 | E-Mail: sales@gbt-international.co.za |

| AUSTRALIA [NISTU Energy Innovations] | | |
|---|-------------------------------------|--|
| 1/29 Thorne St Widsor Queensland 4030 Australia | Telephone: +61 (0) 403 / 655 873 | E-Mail: stuart.holt@gbt-international.com |

REPAIR TERMS AND CONDITIONS

1. In the case of device failure which can be attributed to poor workmanship, please take the original sales receipt with purchase date (invoice, etc.) to the retail store. In case of normal use, the power supply unit will be repaired or replaced free of charge within the two year warranty period. In addition to that, the customer must bear any shipping charges that may occur.
2. The repair is not free of charge in the following cases, even within the warranty period.
 - A warranty card or certificate or sales receipt with purchase date (invoice, etc.) is not presented.
 - The equipment failure was caused by improper use (including use that does not comply with the instructions set forth in the manual).
 - Defects were caused by improper repairs, modifications, disassembly, etc.
 - Equipment failure was caused by careless operation (dropping /falling /impact /contact with fluids/ deposits - on the inside or outside of the machine) or improper maintenance (mildew, dust, etc.).
 - Damage was caused by use of unit for purposes other than intended (charged and recharged more than 300 times, etc.)
 - Equipment failure occurred due to external influences, such as power supply or other electric devices and/or damage during inspection or repair.
 - Faults that can be attributed to causes that are not cited above are beyond our scope of responsibility.
3. Note that we do not assume any liability for consequential damages (foreseeable damages, psychological damages, etc.).

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