

User Manual

Model: NG-PPS500

Version: 1.0

English

Important Notes

Please read the following instructions before using them to ensure safety. Improper usage may result in a fire, property damage, or personal injury.

1. Product Use

- 1) **DO NOT** use any inappropriate power cords.
- 2) **DO NOT** place the unit close to or in a fire or expose it to heat. Keep out of direct sunlight.
- 3) **DO NOT** charge, use or store the unit in a bathroom or in an area exposed to rain or moisture. Do not drop the unit into the water. If the battery in the unit comes into contact with water, it may cause chemical decomposition of the battery. This may cause the battery to catch fire or explode.
 - Never use or swollen battery, leakage, or damaged batteries. If your battery is abnormal, contact us to get support.
 - Never install or remove a battery from the unit when it is turned on.
- 4) **DO NOT** use the batteries in strong electrostatic or electromagnetic environments. Otherwise, the battery control board may malfunction and cause a serious accident.
 - Never disassemble or pierce the product in any way. Otherwise, it may leak, catch fire, or explode.
- 5) **DO NOT** use the product if it was involved in a crash or a heavy bump.
 - If the product falls into the water during use, take the product out immediately and put it in a safe and open area. Keep a safe distance from it until it is completely dry. Never use it again and dispose it properly as described in the Battery Disposal section below. If the product catches fire, it is recommended to use fire extinguishing equipment in the following order:
 - Water or water mist, sand, fire blanket, dry powder, carbon dioxide fire extinguisher.
 - **Do NOT** allow pins, wires or other metal pieces to insert to the device case, outlets or controls. Metal pieces may short circuit the product.
 - To avoid collision, **DO NOT** place heavy objects on the machine.
 - Use and store the unit only in a clean and dry environment. Do not use and store in dusty and wet environment.
 - If there is dirt on any plug or outlet surface, use a dry cloth to clean it. Otherwise, it will cause abrasion and result in energy loss or inability to charge.
- 6) **DO NOT** put the machine in a microwave oven or in a pressurized container.

2. Product Recharging

- 1) **DO NOT** charge the unit via power supply systems that operate outside of AC100-240V.
- 2) **DO NOT** charge the unit via solar panel that operate voltage outside of DC12-26V.
 - Always use approved attachment charging cables, we take no responsibility for any damage caused by using other brand charging cable.
 - When charging, please place the product on the ground with no flammable or combustible materials around. To prevent accidents, never leave the machine unattended during charging.
- 3) **DO NOT** charge a product immediately after a long heavy load, because the product's temperature may be too high. **DO NOT** charge a product until it cools down to room temperature.
 - Only charge, use the unit within an ambient temperature of 0 to 40 °C (32 to 104°F). The ideal charging temperature range is 22°C to 28°C (71°F to 82°F).

3. Product Storage and Transportation

- 1) Keep the product out of children's access. If any children accidentally swallow parts, please go to the doctor immediately.
- 2) If a low-battery warning appears, charge the battery before storing it.
- 3) Store the product in a dry environment. Do not place the product in a location where it may come in contact with water.
- 4) Make sure that no small metal objects can fall on or around the product while in storage.
- 5) Never transport a product with more than 30% battery power.

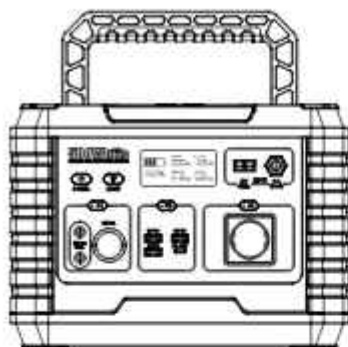
4. Product Maintenance

- 1) Never store the product in environments below -20°C or above 45°C .
- 2) Battery life may be reduced if not used for a long time.
- 3) Fully charge and discharge the battery at least once every 3 months to maintain battery health.

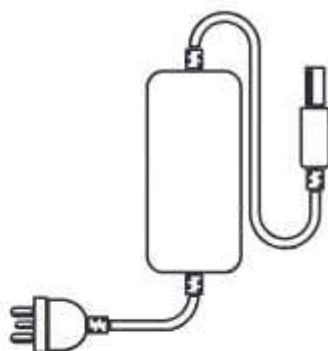
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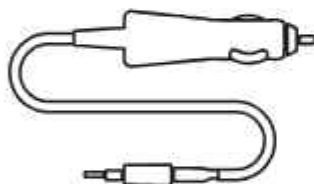
What's in the Box



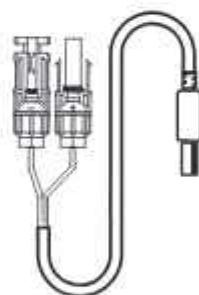
Portable Power Station X1



Power Adapter X1



12V Car Anderson cable X1



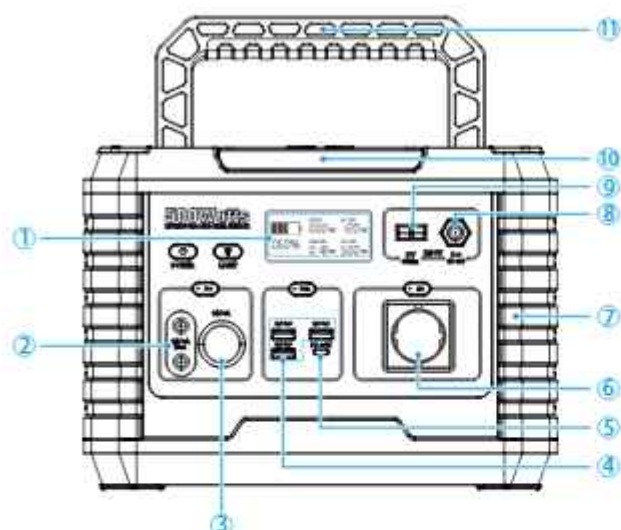
MC4-Anderson connector cable X1



User Manual X1

Product Overview

Front :



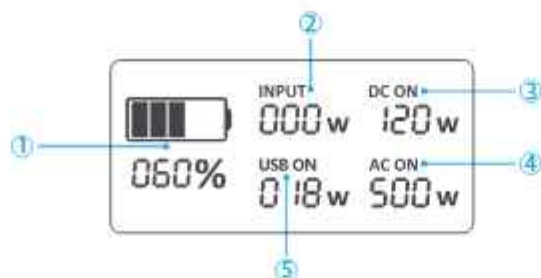
1. LCD Screen Display
2. DC 5525 Output
3. Cigarette Lighter Output
4. USB-A Output
5. USB-C Output
6. 500W Rated AC Output
7. Anti-collision Strip
8. DC Input
9. PV Input
10. SOS MODE&LED light
11. Folding Handle

Side :



Note: There are no user-serviceable parts inside. It is recommended that you completely charge the NG-PPS500 before using it. The AC Output port may vary in different regions.

LCD Features



1. Battery Level Indicator
2. Input Status
3. DC Outputs Status
4. AC Outputs Status
5. USB Outputs Status

Details Displayed on LCD

Battery Level Indicator:

The battery charge % corresponds to the number of bars and percentage indicated. The battery level segments correspond to the current state of charge, 0 to 5% empty, 6 to 20% one segment, 21 to 40% two segments, 41 to 60% three segments, 61 to 80% four segments, and all five are lighted when the charge level is more than 81%.

1) Provides the user live telemetry data on time to completely charge, or deplete the battery based upon the energy entering or leaving the battery.

2) When using the NG-PPS500 for the first time, it is highly recommended to fully charge it. The higher the battery level indication, the more exact the data.

3) Please be aware that this value can adjust multiple times as the energy draw changes from the connected devices. This is evident during initial activation of ports with a connected device.

4) It is recommended to charge the NG-PPS500 when the battery level is less than 20%.

Note: When you first plug in a power source, whether it's a solar panel or a wall charger, the NG-PPS500 may take a minute to detect and adjust its charge circuitry before it starts drawing power from the source.

INPUT Status:

The NG-PPS500 is capable of providing input energy in watts.

DC Output Status:

The display will provide output watts of the DC port.

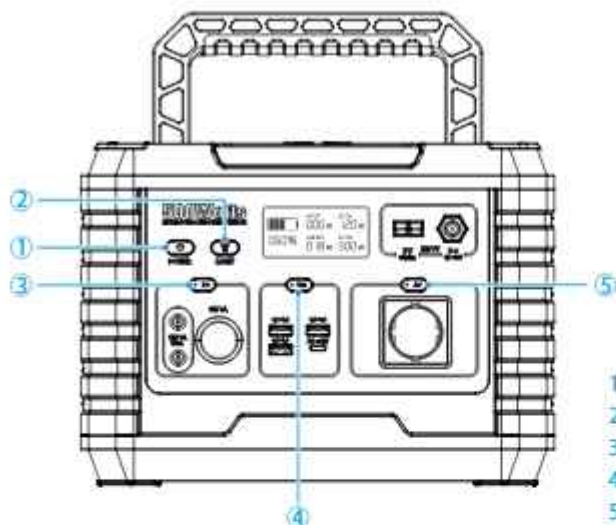
AC Output Status:

The display will provide output watts of the AC port.

Power-saving Mode:

When the device enters the input or output state, it will enter the screen-off mode after more than 20 seconds, which does not affect the normal operation of the device. When the output power of the device is less than 5W, the device will go into hibernation after more than 3 hours, and the input can be "awakened" when the input is charged or any button is pressed. When not in use, press the switch button to turn off the output.

Button Features



1. NG-PP500 Power ON/OFF Button
2. SOS mode & LED light Button
3. DC Output Power ON/OFF Button
4. USB Output Power ON/OFF Button
5. AC Output Power ON/OFF Button

Function Buttons

Button 1: NG-PPS500 POWER ON/OFF

Button 1 is the master switch. Press Button 1 to turn on the power or to shut down the output(s) when not in use.

Button 2: SOS MODE & LED LIGHT

Function is available no matter the Button "POWER ON/OFF" is activated or not as the following steps:

Firstly: Press Button 2 to turn on the LED light into the LED light mode.

Secondly: Double click it to turn on the SOS mode.

Thirdly: Press Button 2 back to LED light mode and then press it again, the light will be turn off.

Button 3: DC OUTPUT POWER ON/OFF

Please make sure that the "POWER ON/OFF" button is activated before pressing Button 3 to turn on, when not in use, press Button 3 to turn off the output(s).

Button 4: USB OUTPUT POWER ON/OFF

Please make sure that the "POWER ON/OFF" button is activated before pressing Button 4 to turn on, when not in use, press Button 4 to turn off the output(s).

The USB-C cable of different devices need different endorsements of corresponding protocols, if the USB-C port doesn't work, try to use the AC adapter to charge.

Button 5: AC OUTPUT POWER ON/OFF

Please make sure that the "POWER ON/OFF" button is activated before pressing Button 5 to turn on, when not in use, press Button 5 to turn off the output(s).

Wireless Charger

Press "POWER ON/OFF" Button to turn on the wireless charger. Press "POWER ON/OFF" Button to shut down the output(s) when not in use.

Cooling Fan

NG-PP5500 utilizes an internal cooling fan to ensure the product is operating within the appropriate temperature range. NG-PP5500, when there is a larger output load, the fan will automatically turn on during discharge or recharging. The fan may operate intermittently to keep the internal temperature within the operational range. To ensure appropriate operation, the fan will most likely start when the AC circuit is turned on.

With It Powers



Laptops(41.4Wh)
Around 10 Recharges



DJ Drone(89.2Wh)
Around 4.9 Recharges



32" TV(60W) 7 hours



CPAP without heated
humidifier(15W) 29 hours



Switch(16Wh)
Around 27 Recharges



Gopro(5.9Wh)
Around 74 Recharges



Floodlight(4W)
Around 110 hours



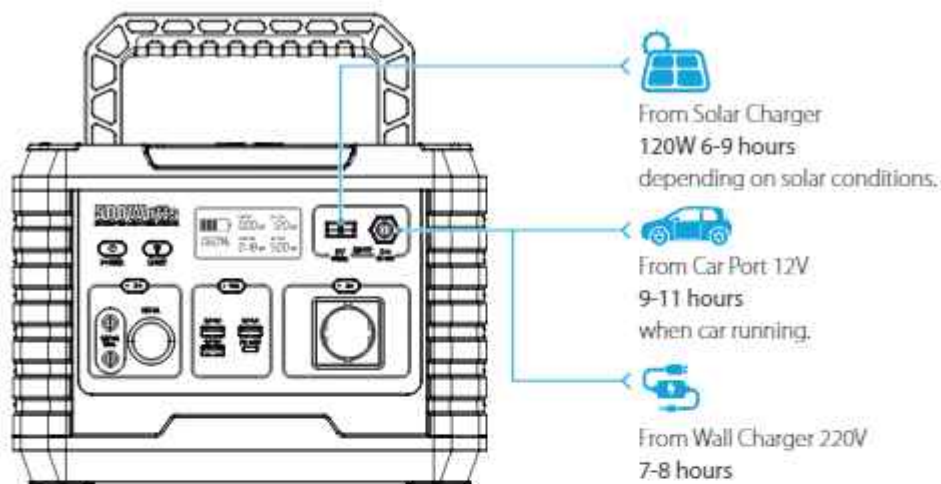
Smartphone(10Wh)
Around 44 Recharges



Mini Fridge(40W)
Around 11 hours

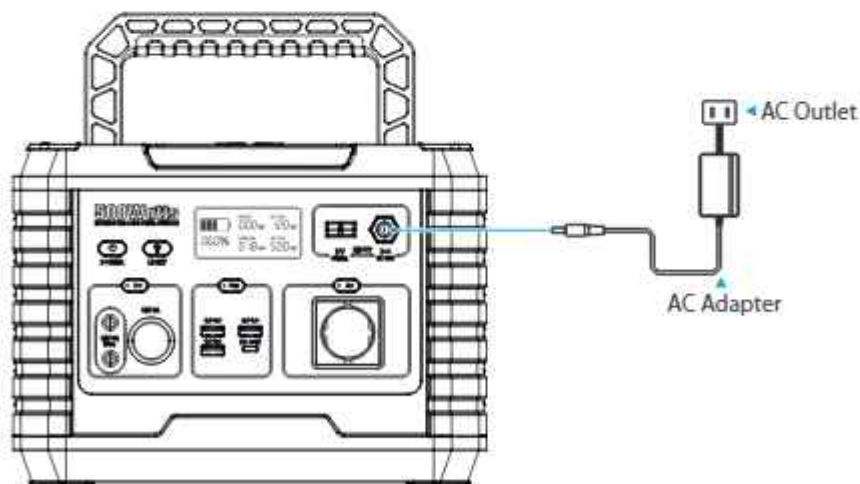
+MORE

How to Charge



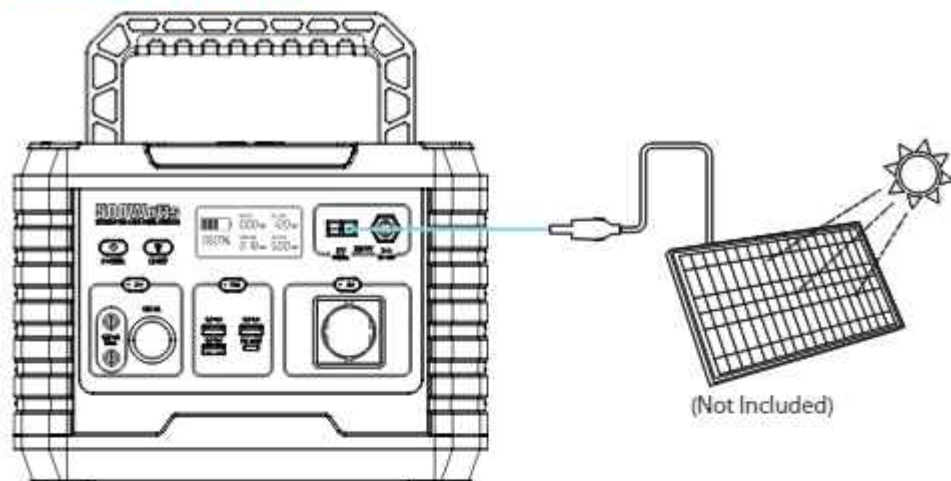
Note: Do not connect device using AC output port while charging the NG-PP500 and it is recommend to disconnect the NG-PP500 when fully charged.

1. AC Adapter Charging



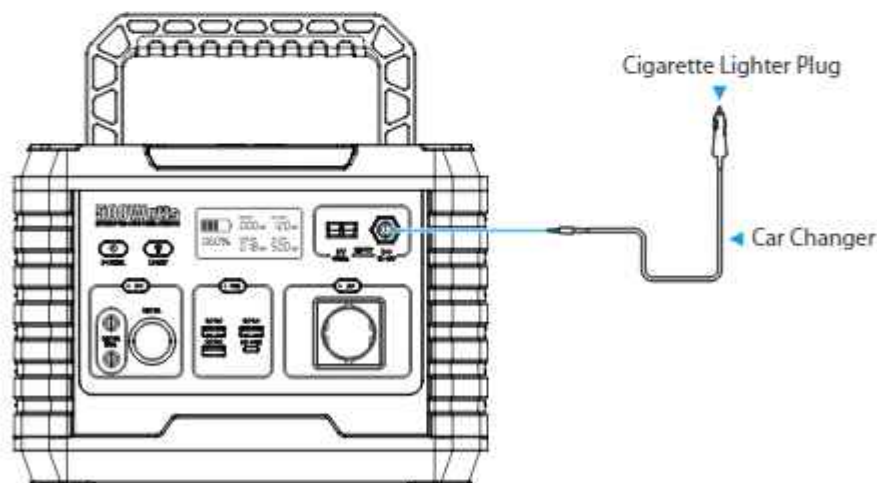
It will take 6 to 7 hours to charge fully by using the AC adapter provided by us.

2. Solar Panel Charging



1. DO NOT charge the unit via solar panel that operate voltage outside of DC12 to 26V.
2. Place Solar Panels in direct sunlight as much as possible.
3. Support 60W/80W/100W/120W Max Solar Panels (Not included), the charging time is determined by the solar light intensity. Recommended to use 120W Solar panel (not included).

3. 12V Car Charger Charging



Use the Car Charger we provided to charge this unit. To charge fully it may take 7 to 8 hours. When the LCD display shows the battery power of 100%, it indicates that this unit is fully charged.

Operating Instructions

Charging NG-PPS500

Connect the provided AC Wall power adapter to Input, and allow NG-PPS500 to fully charge prior to use, approx. 5-7 hours. When charging, the LCD Screen will be illuminated, and the LCD display will provide Battery level Indicator, NG-PPS500 is fully charged when the level is 100%. It is recommended to fully charge NG-PPS500 every 3 months to maintain the health of the battery pack.

Powering/Charging Devices With NG-PPS500

Select the type of outlet required by pressing the Output ON/OFF Button 3/4/5. The output port will NOT function until the appropriate button is pressed to activate the port. When activated, the indicator on the button will illuminate green, indicating that the output(s) are active, and the LCD display will turn on and provide details on the charging output. The LCD Screen will automatically shut down when no outputs are activated.

Pass-Through Charging

The advanced battery management system of the NG-PPS500 allows it to charge a connected device via DC output & USB output while charge the NG-PPS500. DO NOT Connected Device VIA AC Output With Charge the NG-PPS500.

Overload Condition

If an overload condition occurs on the OUTPUT port, NG-PPS500 will:

- Automatically turn off AC Output power.
- The blue indicator light of LCD Screen still illuminated.
- DC OUTPUT Status still the same status as usual.

Do Following:

Check the input charge cable. The port will be efficient when the input charge cable meets the specification outlined in the GENERAL SPECIFICATIONS section.

Note: Only charge NG-PPS500 with provided AC wall power adapter.

Other Considerations

1. Cleaning

Be sure that NG-PPS500 is disconnected from all input power sources and output devices. Use a clean, dry, soft-lint-free cloth to wipe down it. Remove any debris, dirt, or other blockages on both side vents. When cleaning debris from the side vents, do not allow the debris, dirt, or other blockages to enter the body of NG-PPS500.

DO NOT use abrasive cleaners or solvents.

DO NOT use compressed air to clean side cooling vents, as this will force foreign particles into the internal circuitry.

To avoid the risk of electrical shock, **DO NOT** use metal objects to clean ports.

2. Storage

If storing for more than 1 month, charge completely before storage and recharge approximately every 3 months to avoid full discharge and possible damage. Store indoors, in cool temperatures, mild humidity, and away from direct sunlight (See GENERAL SPECIFICATIONS section). Leaving in a vehicle or other confined spaces in extreme hot. Temperatures can lead to decreased service life, overheating, and fire. Extreme cold conditions below specific storage range can also harm NG-PPS500 performance and service life. Keep away from corrosion chemicals and gases.

After taking out of storage, visually inspect to make sure that NG-PPS500 and all accessories look satisfactory. This increase review the intake and exhaust side vents to make sure that they are clear of debris. Allow NG-PPS500 to return to ambient conditions before recharging, or charging other devices.

3. Attention

Transportation: NG-PPS500 complies with all legal requirements for transport of dangerous goods. The capacity of the lithium battery pack exceeds 100Wh.

Based on international standards, if NG-PPS500 is transported by airplane, it must be transported in accordance with IATA standard packaging. IATA instructions and labeling requirements and the relevant declarations must be completed.



Not Permitted On Aircrafts



Avoid Dropping



To preserve the battery lifespans, please use and recharge at least once every 3 months



Do not Disassemble



Use original or certified charger and cables



It's not waterproof, do not expose to liquids



Avoid Extreme Temperature



Please dispose of batteries and electronic goods in accordance with local regulations

4. Troubleshooting

NG-PPS500 WILL NOT CHARGE OR OPERATE connected devices:

- Ensure that the DC/USB/AC output ports are activated by pressing the Button(s) 1 & 3/4/5 for the port(s) in use.
- Confirm the connected device is suitable for the NG-PPS500 by reviewing the output specifications provided in the GENERAL SPECIFICATIONS section.
- Confirm NG-PPS500 is charged by reviewing the Battery Level Indicator.

- Verify the watt data displayed on the Status Indicator 2/3/4 of LCD Screen for overload condition.

The device can not be charged:

- Confirm that the wall plug power adapter's cord is inserted fully into the DC Input.
- Confirm that the AC wall plug power adapter is the charger provided with NG-PPS500. If the input does not comply with the requirements located in the general specifications section, the low watt range 0% to 10% may be displayed on the LCD.
- If the device cannot be charged immediately after it is discharged, please wait for an hour and try again, it may enter the over-temperature protection.

5. Maintenance

Recharge as needed. There are no pre-designated intervals at which to recharge as long as the NG-PPS500 is being used regularly. Avoid discharging completed on a regular basis, as this can impact overall life.

Regularly inspect all ports and wall charger for any debris, dirt, damage and corrosion.

DO NOT attempt to fix:

DO NOT cover the NG-PPS500 with towels, clothing or other items.

Regularly observe if the side vents are collecting dirt or dust, and clean following cleaning procedures noted in manual.

6. Disposal/Recycle



Do not place equipment and its accessories in the trash. Items must be properly disposed of in accordance with local regulations.

See www.epa.gov for additional information.

7. Statement

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The information contained herein is subject to change without notice. The only warranties for NGTeco products and services are set forth in the warranty statements accompanying such products and services. NGTeco shall not be liable for technical or editorial errors or omissions contained herein.

8. Limited Warranty

We warrant to the original consumer purchaser that our product will be free from defects in workmanship and material under normal consumer use during applicable warranty period identified in the "Warranty Period" section below, subject to the exclusion set forth below. This warranty statement sets forth our total and exclusive warranty obligation. We will not assume, not authorize any person to assume for us, any other liability in connection with the sale of our products.

9. Warranty Period

The warranty period is 12 months. In each case, the warranty period begins on the date of purchase by the original purchaser and ends on the date of expiration. To establish the start date of the warranty period, the sales receipt from the initial consumer purchase, or other appropriate documentation proof, is necessary.

10. Remedy

During the applicable warranty period, we will repair or replace any of our products that fails to operate due to defects in workmanship or material. If a valid claim is made during the applicable period, we will Replace or Exchange the product of equal value. A replacement product assumes the original product's remaining warranty or ninety (90) days from the date of replacement, whichever is higher. The customer is responsible for the cost of return shipping.

11. Limited To Original Consumer Buyer

The warranty on ours product is limited to the original consumer purchaser and to any subsequent owner.

12. Exclusions

Our warranty does not apply to (1) any product that is misused, abused, modified, damaged by accident, or used for anything other than normal consumer use as authorized in ours current product literature, or (2) any product purchased through an online auction house.

Ours warranty does not apply to the battery cell unless the battery cell is fully charged by you within 7 days after you purchase the product at least every months thereafter.

13. How To Receive Service

To obtain warranty service, contact our customer service team.

General Specifications










General Specifications

	Rated capacity	519.48Wh
	Weight (Net Weight)	≈6.8kg
	Weight (including Accessories)	≈7.8kg
	Product Size	290mm*194mm*200mm




Input

	Recharging Input Voltage	12 to 26V
	Recharging Input Power	100W
	AC/DC Adapter	100W MAX, AC 100 to 240V (50Hz/60Hz), DC 25V, 4A
	Solar Charge Input	12 to 26V, DC 6A MAX
	Car Charger	DC 12V, 100W MAX

Output

	AC Output Voltage	230V/50Hz
	Rated Output Power	500W
	Output Waveform	Pure sine wave
	Overload Protection Power	550±40W
	Cigarette Lighter Socket Output	14V/8A
	DC 55*25 Output	14V/4A
	Wireless Charger	10W
	USB Output	QC3.0/18W
	Output Type-C	PD60W

Battery

	Standard Capacity of Cells	3.7V/140400mAh
	Discharging Temperature	14 to 104°F(-10 to 40°C)
	Recharging Temperature	32 to 104°F(0 to 40°C)