

GUARDIAN

2000Wh Semi-solid battery
power station

model **SSP-2000**

Instruction Manual

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Introduction

Thank you for acquiring GUARDIAN.

Please review this instruction manual thoroughly prior to use and ensure the product is utilized appropriately. Please ensure that you read the "Safety Precautions" and utilize the product safely.

After reading, please keep it in a secure location where you can readily access it.

Please ensure that the battery is charged promptly after purchase.

The instruction manual for this product is updated from time to time, so please refer to the official website for the latest instruction manual.

- This instruction manual is subject to change without notice.
- For the purpose of product improvement, the appearance or part of specifications may be changed without notice.
- If you have any questions, errors, or omissions in this instruction manual, please contact us.
- Unauthorized copying of this instruction manual, in whole or in part, is prohibited except for personal use. Unauthorized reproduction is strictly prohibited.

Safety Precautions

To ensure safe and proper use of this product, please observe the following before use.

- ◆ Please be sure to observe the "Safety Precautions".
 - Please read and follow the precautions in this instruction manual carefully.
- ◆ Perform periodic inspections.
 - Every six months, inspect the input AC cable for charging for damage, dust between the power plug and the outlet, whether the power plug is securely plugged in to the base, and whether the intake and exhaust ports are free of dust and debris.
- ◆ Do not use it when it is malfunctioning.
 - If you notice any abnormal operation or damage, please contact your dealer immediately.
 - Do not attempt to repair it yourself as it is very dangerous.
- ◆ In the event of an abnormality
 - If any of the following abnormalities occur, discontinue use immediately. Disconnect the power plugs of the main unit and all electrical appliances and turn off the main unit's main power. Contact your dealer immediately.
 - When the main unit, input AC cable for charging, or plug is unusually hot or smells burning
 - When water or other liquid enters the main unit
 - When metal or other foreign objects enter the interior
 - When this product has been dropped or subjected to a strong impact
 - When this product is damaged

◆About Displays

This symbol is provided to ensure safe and proper use of the product and to prevent injury to customers and other people and damage to property.

Please read the text after carefully understanding the contents that may result from mishandling.

⚠DANGER	May cause sudden serious injury and death.
⚠WARNING	May cause serious injury and death.
⚠CAUTION	May cause injury or damage other equipment.

- Serious injuries are those that result in permanent damages such as blindness, injury, burns, electric shock, broken bones, poisoning, etc., and those that require hospitalization or long-term hospital visits for treatment.
- Injury is defined as an injury, burn, electric shock, etc. that does not require hospitalization or long-term hospitalization for treatment.
- Property damage is defined as extended damage to the house, household goods, livestock and pets.

⚠DANGER

- Do not disassemble, modify, or repair.
 - Failure to do so may cause electric shock, overheating, smoking, rupture, or fire.
- Do not give strong impacts such as throwing, nailing, hitting with a hammer, stepping on, or dropping the product. Do not use the product if it is deformed or damaged.
 - Failure to do so may cause overheating, smoking, ignition, rupture, fire, burns, electric shock or injury.
- Do not throw into fire, solder directly or heat.
 - Failure to do so may cause overheating, smoking, ignition, or rupture.
- Do not use, store, leave, or charge the product in places with high temperatures, such as near a heat source such as a stove, in direct sunlight, or inside a company parked in the hot sun.
 - Failure to do so may cause overheating, smoking, ignition, or rupture.
- Do not insert metal, water, paper, etc. into or into the input/output terminals of the charging inlet, output outlet, etc.
 - Failure to do so may result in fire, electric shock, or malfunction.
- Do not touch any liquid leaking from inside the product. If it gets into your eyes, wash them with clean water without rubbing and seek medical attention immediately.
 - This can cause blindness and other problems.
- Do not get wet with water, sea water, juice, etc. Also, do not charge, use, or store the product in places prone to condensation, or in damp places such as bathrooms. Also, do not wash the product in water.
 - Failure to do so may cause overheating, smoking, ignition, rupture, electric shock, overheating, or fire.
- Do not touch this product or the plugs of connected electrical appliances with wet hands.
 - Failure to do so may result in electric shock.
- Do not dispose of as general waste.
 - In garbage collection areas or inside garbage trucks, it may cause electric shock, heat generation, smoking, fire, etc.

■ Do not make circular connections to the AC cables.

Do not insert the plug of the AC cable plugged into the charging inlet into the output outlet.

- Doing so may cause electric shock, heat generation, or fire.

■ Never connect the output outlet to electrical wiring from the power company or to indoor wiring.

- Failure to do so may cause electric shock or fire.

■ Do not place the product in a place where it is likely to fall over or fall off (high places such as on desks, furniture, shelves, etc.) or where the floor surface is unstable (sloping surfaces, etc.).

- If this product falls over, it may result in injury or a serious accident.

■ Do not place or sit on it.

- Failure to do so may cause electric shock, heat generation, fire, or other damage to the unit.

- Failure to do so may result in injury.

■ Do not move the product while it is charging or in use.

- Vibration and shock caused by movement may result in fire, electric shock, or other injury due to heat generation, or damage to the main unit.

■ Do not touch the intake and exhaust ports while in use.

- Failure to do so may cause electric shock, injury, or malfunction.

■ Do not spray chemicals directly on or near this product.

- Failure to do so may cause overheating, smoking, or electric shock.

■ Do not place equipment that generates water vapor, cold air, oil fumes, or corrosive gases near this product.

- Failure to do so may cause overheating, smoking, or electric shock.

■ If you notice any unusual odor, heat, smoke, deformation, or other unusual behavior while using, charging, or storing this product, turn off the AC output, unplug the input AC cable, and immediately keep the product away from fire.

- Failure to do so may cause the battery to overheat or catch fire.

■ If an unusual odor, heat generation, or smoke emission occurs in your electrical product connected to this product, unplug your product from the outlet of this product.

- Doing so may cause the battery to overheat or catch fire.

⚠WARNING

■ When charging, if charging is not completed after the specified charging time, stop charging.

- Failure to do so may cause overheating, smoking, rupture, fire, or leakage of liquid.

■ Keep the area where the product is used, stored, and used clean.

- If dust, small metal objects, etc. enter the terminals or inside the product, they may cause a short circuit, resulting in smoking or ignition.

■ Always inspect before use.

- If you find any abnormality such as a crack, chip, or crease, liquid leakage, heat generation, or damage to the AC cable, stop using the product immediately and contact the dealer where you purchased it or us.

■ If leaked liquid gets on skin or clothing, do not rub it off, but rinse thoroughly with clean water immediately.

- It can cause skin damage.

■ Do not allow small children to use this product. Also, do not install or store in a place where young children can reach.

- If the product falls over, it can lead to injury or a serious accident.

■ Please do not use the product for long periods of time on the beach or in dusty places.

- Smoking or ignition may occur.

■ Do not do anything (e.g., pulling or bending) to damage the AC cable, plug, or conversion plug.

- Using a damaged product may cause ignition or electric shock.

■ Be sure to insert the AC cable plug all the way to the root.

- Incomplete insertion may cause electric shock or fire due to heat generation.

■ Do not use AC cables other than those supplied.

- Use of other than the supplied items may cause fire, smoke, malfunction, or malfunction.

■ If lightning approaches during charging, immediately unplug the AC cable from the outlet.

• A lightning strike may cause a large current to flow from the outlet, resulting in heat generation, ignition, or fire.

■ Do not use or store upside down.

- Failure to do so may cause malfunction, heat generation, or fire.

■ Do not insert anything (metal, paper, water, etc.) into or through the intake and exhaust ports.

- Failure to do so may result in fire, electric shock, or malfunction.

■ If this product is flooded, submerged, deformed, or damaged due to a disaster, etc., do not approach this product.

• There is a danger of electric shock, generation of toxic gas, heat, smoke, fire, or leakage of electrolyte from the product, so disconnect all cables connected to the product, turn off the power, and immediately contact your dealer.

■ Do not paint this product.

- Failure to do so may cause malfunction, heat generation, or fire.

■ Do not enclose or cover this product with plastic or other materials.

- Failure to do so may cause malfunction, heat generation, or fire.

■ Do not drop the product during transportation.

- Dropping the product during transportation may cause injury.

- Failure to do so may cause malfunction, heat generation, or fire.

⚠CAUTION

■ Do not use in the rain or in locations where water can penetrate the interior. Also, do not store it.

- Failure to do so may cause electric shock, heat generation, or fire.

■ Do not leave or store the product in direct sunlight or in extremely hot places such as inside a car in summer for a long time.

- Failure to do so may cause malfunction or performance degradation.
- When using the product, make sure there is no dust between the plug of the power supply and the outlet.
- Failure to do so may cause fire due to overheating or ignition.
- Do not wipe this product with chemicals (thinner, etc.).
- Printing may disappear or cause discoloration.
- This product is heavy. Please handle with care.
- Improper use can cause back pain and injury.
- When transporting the product by car, etc., fix the product firmly so that it will not move.
- Damage to the unit may cause electric shock, heat generation, fire, etc.
- When charging, avoid high temperature and humidity, and charge within an ambient temperature range of 14~104°F (-10~40°C).
- This may cause performance degradation or heat generation in the product.
- Do not place this product in a place where it will vibrate for a long period of time.
- Failure to do so may cause malfunction.
- Use at altitudes of 2000 m or less.
- This may adversely affect the product and cause it to malfunction.
- Keep equipment affected by electrical noise away from the product.
- Electrical noise generated by this product may affect television and reception of nearby amateur radio communications and radios.
- Do not block the intake and exhaust vents or place luggage near the intake and exhaust vents.
- Rising temperatures may cause the product to shut down.
- Do not touch the product for a long period of time while it is operating or immediately after it has stopped, as the product may be hot.
- There is a risk of burns.
- Do not leave the product's battery fully discharged, even for a short period of time.
- The battery's performance and life will be negatively impacted, and it will not be able to recharge the battery.
- When not in use for long periods of time, recharge the battery before storing it.
- To prevent deterioration, check the remaining battery level once every three months and recharge the batteries if the level is low.
- The battery's performance and life will be negatively impacted, and it will not be able to recharge the battery.
- Carry it with care.
- The body may get caught in the product, resulting in injury.
- This product does not have a communication function. Therefore, when using this product as an EPS, please check the display panel periodically for any abnormalities in the product.
- If the unit is left in an abnormal state, it may not switch to backup operation normally in the event of a power failure.

- Do not use or allow sufficient distance for those with medical implants or personal medical devices such as pacemakers, cochlear implants, hearing aids, defibrillators, etc.
 - There is a risk of being affected in any way.
- When transporting the product, disconnect all plugs, cables, and connectors from the product itself, and turn off the power before packing.
 - The cable may be damaged when packed without disconnecting it.
 - Failure to turn off the power may result in an over-discharge condition.
- When charging, be sure to connect the supplied AC cable directly to a wall outlet without using a power strip or similar device. Make sure that no other electrical appliances are connected before charging.
- This product is for use within the UK/EU only. Do not use in other regions.
- This product has EPS function, but the switching time is within 20ms. Switching within 0ms is not possible, so the EPS function cannot be used in medical equipment that may seriously affect the human body/life, or in products with high accuracy requirements such as data servers/workstations.
- Do not use in the following applications that require high reliability and safety in terms of function, accuracy, etc. Space equipment, communication equipment (trunk lines), nuclear power control equipment, disaster prevention and security equipment, information equipment, control of transportation equipment (airplanes, trains, automobiles, etc.) and various safety-related equipment, etc.

Product Overview

This product is a multifunctional power station consisting of a semi-solid-state lithium-ion battery and a gallium nitride inverter.

Equipped with various interfaces such as DC, AC, and USB, it was developed to supply power to equipment in video production and news reporting, in addition to enabling the use of general household electrical products and office equipment indoors during disasters and power outages, and indoors where no power supply is available. It also has an EPS function, so it can be used continuously in the event of an input voltage drop (power failure) while the device is connected and in use.

The maximum time until switching to battery output in the event of input voltage drop (power failure) is 20 ms (actual measured value 14 ms) (EPS function). And it can be charged in various ways (solar charging, cigarette socket charging, AC charging).

It includes a UL-approved automotive-grade semi-solid-state lithium-ion battery, a battery management system (BMS), a charge management system, a power consumption management system, a DC module, and an AC inverter module.

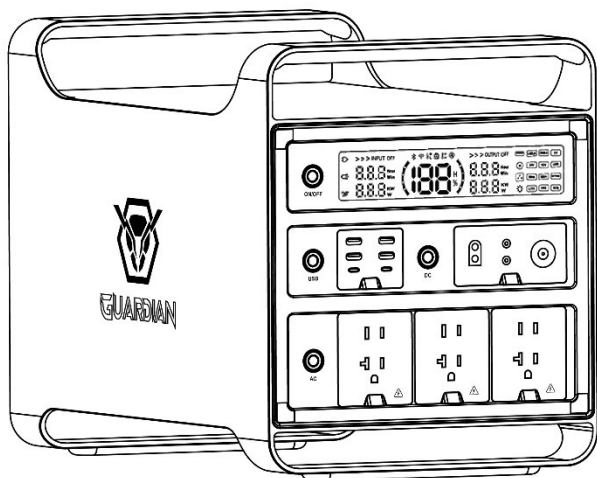
This product is smaller and lighter than comparable power stations of similar capacity and is capable of rapid recharging. Professional design and verification ensure safety and reliability with international certifications such as CE, RoHS, and UN38.3.

Included items

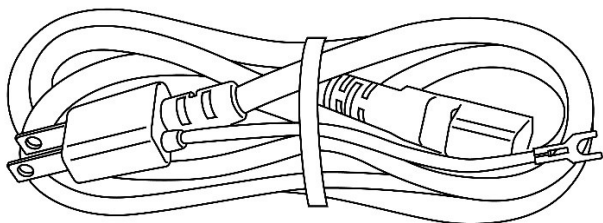
After removing the product from its packaging box, make sure that the following items are included.

Also, please make sure that there are no dents or distortions in the product itself.

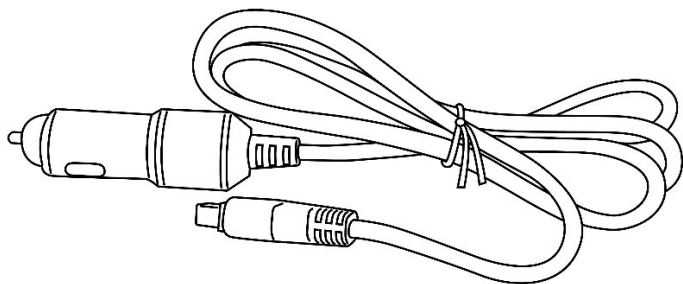
- Product main body ×1 (The diagram below is the Japanese version)



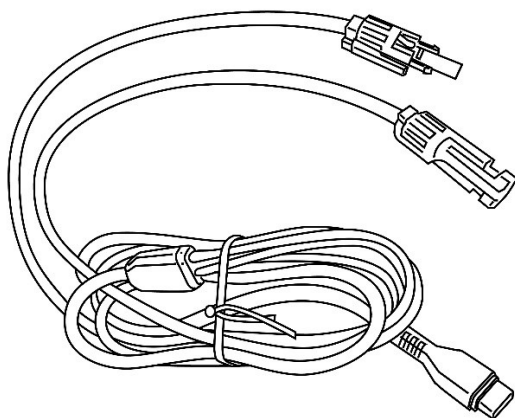
- AC cable (for charging input) ×1 (The diagram below is the Japanese version)



- Cigar socket charging cable (conversion from cigar socket to XT-60 terminal) ×1



- Solar panel charging cable (conversion from MC4 terminal to XT-60 terminal) ×1

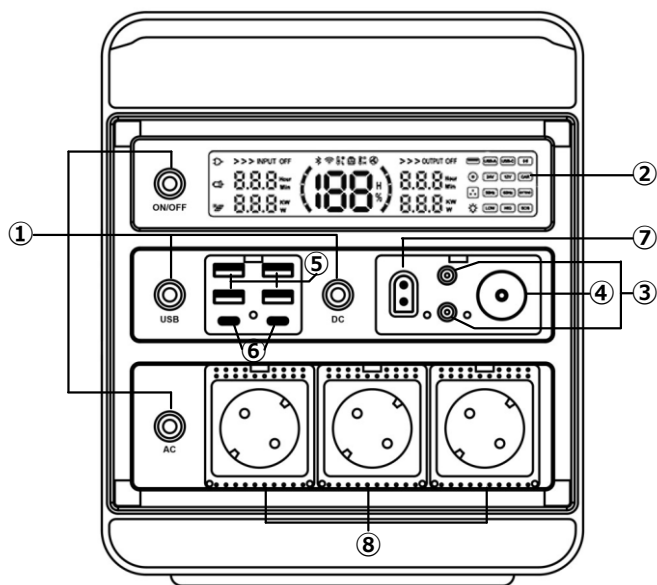


- Quick start guide ×1

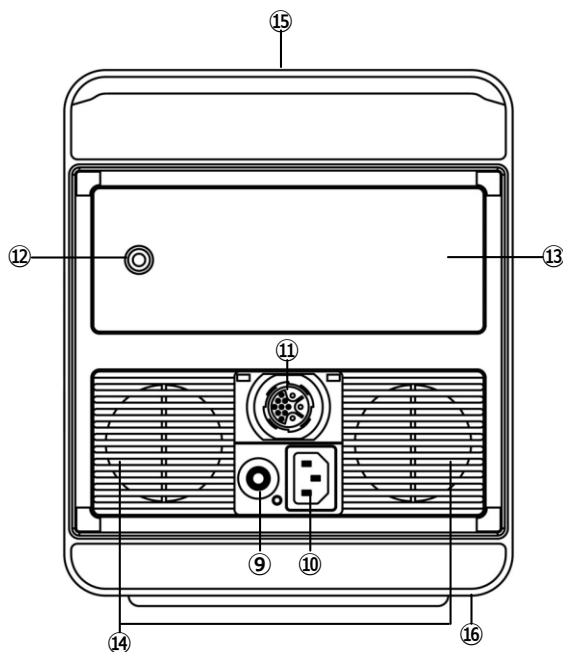
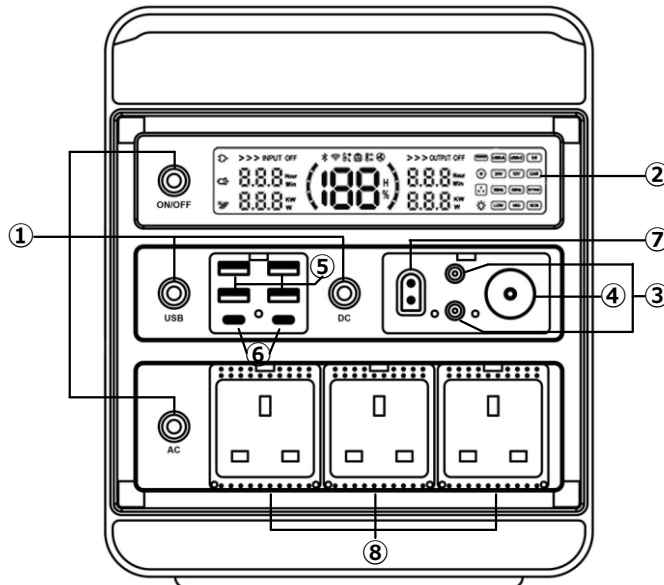
Name of each part

Part names/functions are as follows.

EU socket version



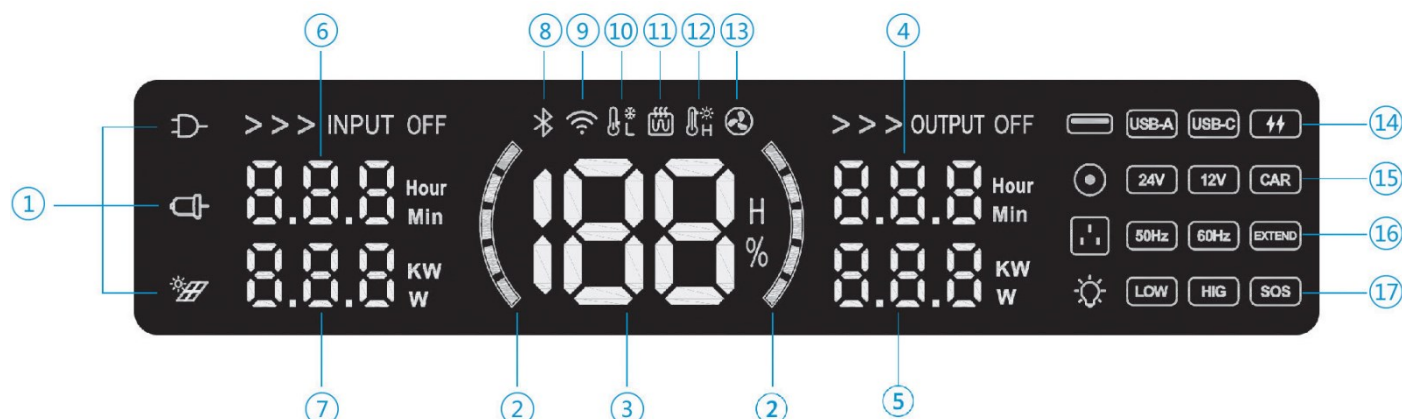
UK socket version



No.	Name/ function			
1	Power On/Off	9	Overload protection breaker	
2	Display	10	AC Charging input	
3	DC jack output (DC5521 12.6V output)×2 ports	11	Unused	
4	Cigar socket output (DC12.6V output)	12	LED light On/Off	
5	USB-A(Black) 2.4A /(Blue) QC3.0 60W 2 ports each	13	LED light	
6	USB-C PD3.0 Max.100W output x2 ports	14	FAN Air outlet	
7	XT60 Solar/Car Charger Charging Input	15	Handle	
8	AC200V output ×3 ports、 Total 2000W UK & EU socket Version	16	Leg	

Display

Items shown on the display are as follows



No.	Item	Function
1	Charging icon	From top to bottom, AC charging, cigarette socket charging, and solar charging
2	Battery icon	Displays battery level in 5 levels of bars
3	Battery percentage	Displays battery level as a percentage from 0% to 100%
4	Remaining time	Displays discharge remaining time. Indicates remaining time in "hours" or "minutes"
5	Discharge output	Displays output power Displayed in "kW" or "W"
6	Remaining charge time	Displays remaining time until full charge. Remaining time in "hours" or "minutes"
7	Charging input	Displays charging input Displayed in "kW" or "W"
8	Bluetooth icon	For maintenance only
9	Wi-Fi icon	For maintenance only
10	Low temperature icon	Indicates a low internal temperature
11	Preheat icon	Indicates preheat is on
12	High temperature icon	Indicates a high internal temperature
13	Fan icon	Indicates that the fan is turning to cool the interior
14	USB icon	Indicates USB is enabled
15	DC icon	Indicates the cigarette socket output is enabled
16	AC icon	Indicates the AC output is enabled and displays frequency
17	LED icon	Displays "LOW", "HIG" and "SOS" when in blinking mode

Carrying

1. Carrying by the handle.
2. Place it on a stable place (do not place it on an unstable place)

How to operate

●Charging

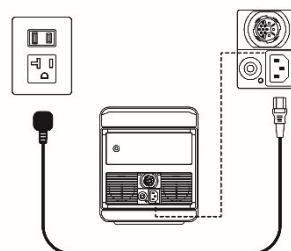
There are three methods of charging: "AC charging", "cigarette socket charging", and "solar panel charging". The operation methods are described in the respective sections below.

Caution: Charging should be done in a temperature range of 14~104°F (-10~40°C).

◆AC Charging

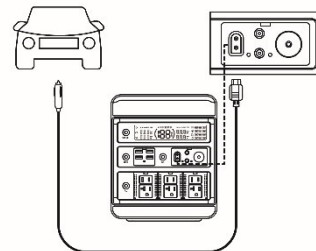
Plug the supplied AC cable into an AC outlet and the other end of the AC cable into the "INPUT" on the back of the main body.

The "AC plug icon" appears on the display, and the remaining charge time is displayed at the same time. Immediately after charging, it takes a few seconds for the system to finish calculating the remaining time.



◆Cigar socket charging

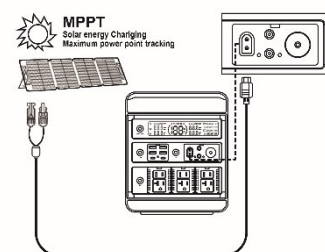
Start the car engine and plug the supplied cigar socket charging cable into the car's cigar socket. Insert the XT60 male plug into the power XT60 female socket. The "Cigarette socket icon" appears on the display, and the remaining charge time is displayed at the same time.



◆Solar panel charging

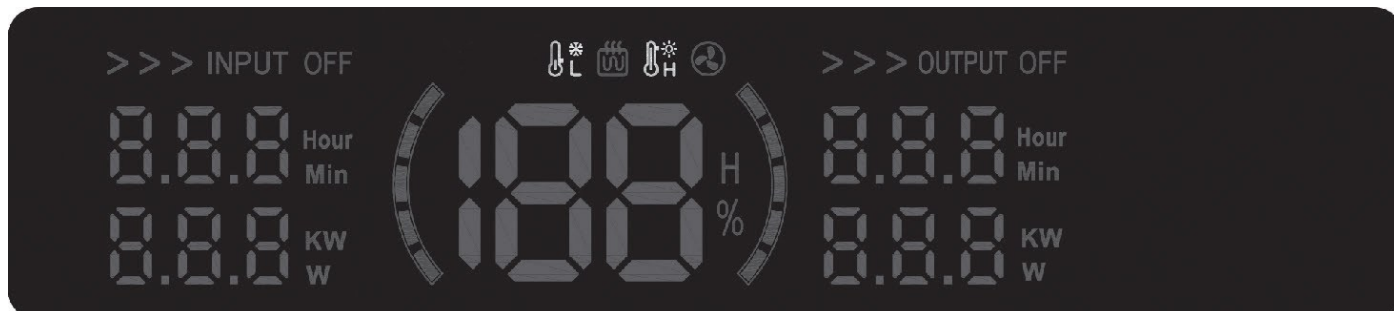
When the XT60 terminal of the solar panel charging cable is plugged into the terminal on the front of the body, "solar panel icon" will appear on the display, and the remaining charge time is displayed at the same time.

The solar panel's power output is heavily dependent on sunlight. The amount of power generated fluctuates, and the remaining time adjusts dynamically.



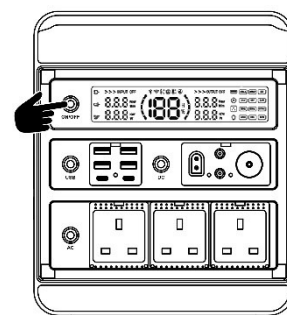
◆Charging temperature standby

Charging temperature protection is provided, and if the battery temperature is outside the safe range 32~104°F(0~40°C), the product enters the charge standby phase, and the LED display indicates that it is waiting for charging with “L” for low temperature and “H” for high temperature. When the internal temperature returns to the normal range, the temperature standby mark on the LED display will disappear and charging will begin automatically.



●Power On/Off

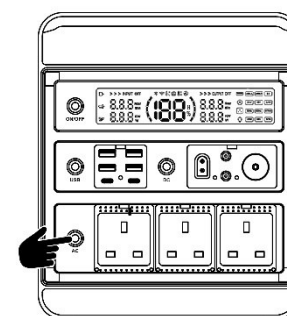
Press and hold the button marked “ON/OFF” until you hear a beep. Display illuminates to indicate “powered on”. To turn off the power, press and hold the “ON/OFF” button until you hear beep. Display dims to indicate that the power is off.



●AC Output

With the power on, press and hold the AC button for about 1 second to hear a beep and turn on the AC output. The AC icon appears on the display.

In this state, press and hold the AC button for about 1 second to turn off the AC output.

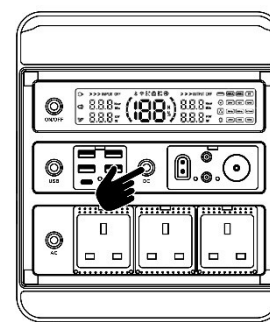


●DC output

With the power on, press and hold the DC button for about 1 second to hear a beep and turn on the DC5521 and cigar socket output.

“12V” and “CAR icon” will appear on the display.

In this state, press and hold the DC button for about 1 second to turn off the DC5521 and cigar socket output.

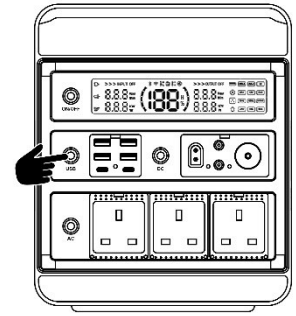


●USB output

With the power on, press and hold the USB button for about 1 second to hear a beep and turn on the USB-A and USB-C outputs.

"USB-A" and "USB-C" will appear on the display.

In this state, press and hold the USB button for about 1 second to turn off the USB-A and USB-C outputs.



●LED light ON/OFF and Mode switching

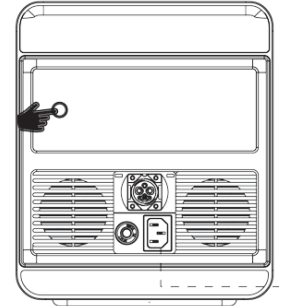
With the power on, press and hold the LED light on/off button on the back for about 1 second to hear a beep, turn on the LED light, and enter low-brightness mode.

「💡」 will appear on the display.

Clicking the buttons consecutively toggles between high brightness mode, SOS mode, flashing mode, and fast flashing mode.

Double-clicking the LED button switches the light color between white, bulb, and daylight white.

In this state, press and hold the button for about 1 second to turn off the LED light.



Care and Storage

How to care

Before cleaning the product, disconnect the AC cable and make sure the main power is off.

Stains should be removed with a neutral detergent diluted with water or a cloth lightly dampened with water, then wiped with a dry cloth.

Electrical connections such as output outlets and charging inlets should be closed and protected from water and detergents.

⚠CAUTION

- Do not wash the product with water. Doing so may cause fire, electric shock, or malfunction.
- Do not wipe with alcohol, thinner, benzene, etc. Printing may be erased or discolored.

How to store

If not to be used for a long period of time, after charging about 70% of the battery, make sure that the main power is turned off, and then store the battery in a safe place, temperature, and humidity.

In addition, charge the battery once every three months until it shows about 70% charge.

⚠CAUTION

- The battery will gradually discharge. When fully discharged, the battery may become unusable.

Check the remaining battery level once every three months and recharge the batteries if the level is low.

- Store in a dust-free and dry place.
- Be sure to check that the main power is turned off.

If stored with the main power on, they may become fully discharged within a short period of time, rendering them unusable.

- When storing, keep the product out of direct sunlight.
- After printing this manual, it is recommended that you store it with the product in the packaging box

Key Points for Handling

- If the battery is stored with a low level of remaining charge, it will be fully discharged in a short period of time compared to the fully charged state.

When storing for a long period of time, be sure to store the batteries with about 70% charge.

- For long-term storage, it is recommended to place the battery in a cool place (approx. 68°F(20°C)) and to replenish power periodically to control battery performance degradation.

About the product's built-in battery

● To extend battery life

- Charging, use, and storage temperatures should be used and stored within the specification range.
(☞Page18 「Specification」)

The service life of the batteries will be reduced if they are exposed to temperatures outside the specified range.

- Avoid frequent overload use.

Although this product properly detects overload and stops output, frequent subsequent overload conditions may cause a decrease in battery life

- Please refrain from using the product with 0% remaining battery power.

Although this product will properly perform a remaining battery warning (0% remaining capacity detection) and stop output, frequent subsequent output may cause a decrease in battery life.

- Turn off the main power when not in use.

Wasted battery power can cause a decrease in service life.

- For storage, charge about 70% of the battery.

If the product is not used for a long period of time, charge 70% before storing it. Also, please check the remaining battery level once every three months and recharge the battery if the level is low.

● Transportation by ship or air

- Lithium ion batteries are classified as Class 9 Dangerous Goods according to the United Nations (UN) "Recommendations on the Transport of Dangerous Goods". When transporting this product, which contains a lithium-ion battery, by ship or air, it is necessary to comply with laws and regulations.
Please check with the carrier for details.

● Disposal

- When disposing of the product, please inquire with your local government for disposal instructions, or contact the retailer where you purchased the product or us.

⚠WARNING

- Do not dispose of this product with household garbage. Failure to do so may cause smoking or ignition inside garbage trucks or at collection points.
- Never attempt to disassemble or disassemble the product. Doing so may cause heat generation, fire, electric shock, injury, or damage.

Specification

The specifications of the SSP-2000 are as follows:

Item	Content	
Cell	Type	Semi-solid Li-ion
	Voltage	32.4V
	Capacity Ah	62Ah
	Capacity Wh	2008.8Wh
	Cycle life	≥1000
	Protection function	Over-charge/Discharge, High/low temperature, overcurrent, Short-circuit
AC output	Output voltage	230V(220 V ~ 240V)
	Output waveform	Sine wave
	Output Rating	3ports Total Max.2000W ※Instantaneous max. 3000W (<1 sec.)
DC output	DC5521(DC jack)	DC12.6V 6A x 2 ports
	Cigar socket	DC12.6V 12A
USB output	USB Type A (Black)	5V 2.4A x 2 ports
	USB Type A (Blue)	QC2.0/QC3.0/QC4.0 5V/9V/12V/15V/20V[Max. 60W(20V 3A)] x 2 ports
	USB Type C	PD3.0(PPS), 5V/9V/12V/15V(3A)/20V(5A) Max. 100W x 2 ports
LED light	Phase 1	5W, White, light bulb/daylight white switchable
	Phase 2	10W, White, light bulb/daylight white switchable
	Phase 3	Blinking (SOS mode)
	Phase 4	High speed blinking (SOS mode)
Charging input	AC input	210V~245V Max1200W
	DC input : Car charger	XT60 Connector, DC12.6V-15V 8A
	DC input : Solor	XT60 Connector, DC25V(18V-50V) 20A Max 1000W
EPS※1	switching time	Within 20ms
Weight	Weight	Approx. 16.8kg / 37.04lbs
Dimensions	Dimensions	H:258mm x W:216mm x D:355mm
		H:10.16 inches x W:8.50 inches x D:13.98 inches
Operating temperature	Charging	14~104°F (-10~40°C)(The built-in heater warms the battery before charging when the temperature is below 32°F(0°C))
	Discharging	-4~113°F (-20~45°C)

※1 : EPS(Emergency Power Supply)

Warranty and After Sales Service

Warranty

- The warranty period is 2 years from the date of purchase.
- Batteries are consumables and their capacity gradually decreases, shortening the time they can be used. Loss of battery capacity is not covered by the warranty.

After Sales Service

- Wondering whether it is malfunctioning, Please refer to this instruction manual again to check.
- The specifications of this product are subject to change without notice, however, changes or improvements other than product repair will not be accepted.
- This product may not be repairable due to discontinuation of the electronic components used.
- Please contact your dealer if you have any questions or need help with repairs.

If a distributor is unavailable, please contact the office listed below.

- When requesting repairs

When requesting a repair, please provide the following information.

- Date of purchase
- Serial number
- Failure Status (Please explain in as much detail as possible.)

UK, ROI & EMEA

IDX Technology Europe Ltd

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Disclaimers

- The Company shall not be liable for any damage caused by natural disasters such as earthquakes, lightning, windstorms, floods, etc., fire, acts of third parties, other accidents, intentional or negligent acts by the customer, misuse or malfunction, or use under other abnormal conditions for which the Company is not responsible.

- We are not liable for any incidental damages resulting from defects or malfunctions of this product, including expenses incurred in taking pictures or loss of profits that could have been gained from taking pictures.

- Do not attempt to repair this product or its accessories if they are damaged.

We are not responsible for any damage caused by your disassembly or repair of the product.

- We are not responsible for any nonconformity caused by failure to comply with the instructions in the manual.

- We are not liable for any incidental damages (including loss of business profits) arising from the use or inability to use this product. We are also not liable for any damage resulting from the malfunction of this product when used with connected equipment or software that we did not develop.

- Do not use this product as a power source for hospital-specific equipment such as CPAP (continuous positive airway pressure) machines, ECMO (extracorporeal membrane oxygenation) machines, pacemakers, or other medical emergency equipment involving personal safety. Do not use this product for equipment with high power consumption. Do not use it in large installations, such as nuclear facility equipment or space shuttle production.

The company is not responsible for any damage or accidents, including fire or equipment failure, that occur after the use of the above equipment.

- The following cases will incur repair charges, even within the warranty period:

1. Failure or damage due to the following reasons

①If the warranty card is not presented or the purchase date or retailer name is unknown

②The serial number cannot be verified.

③Due to a fault received from an electrical product connected to this product

④Opening the lid of this product, disassembling, modifying, or repairing the product

⑤When used in a manner contrary to the instruction manual

⑥Cases resulting from gross negligence in maintaining the installation environment as described in the instruction manual, such as failing to clean around the product.

⑦In the event of an earthquake, windstorm, flood, tsunami, lightning, volcanic eruption, or other natural disaster; fire; pollution; or foreign accident, or other force majeure caused by animals, such as insects, birds, or rats.

⑧Use with a power supply (voltage/frequency) other than that specified in the instruction manual.

⑨Discoloration, sound, vibration, rust, or scratches resulting from aging or normal use.

⑩Failure due to careless handling (drop, fall, shock, water, sand, chemicals getting inside the equipment, etc.)

⑪Failures caused by reasons other than those listed above and not attributable to the company.

2. The following costs are the customer's responsibility.

①Repair cost at a non-dealer



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