

### INFINITY 1300 Portable Power Station User Guide

SAVE THESE INSTRUCTIONS

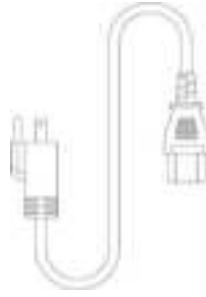
**Contact Us**

[www.Growatt.com](http://www.Growatt.com)

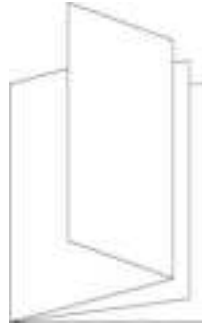
## Package Contents



INFINITY 1300 Portable Power Station



1.5m AC Charging Cable



User Manual and Warranty Card

## Important Safety Instructions

**Warning – Please read the instructions carefully before you use the product. You must follow the precautions below when using this product.**

WARNING – When using this product, basic precautions should always be followed, including the following:	
a)	Read all the instructions before using the product.
b)	To reduce the risk of injury, close supervision is necessary when the product is used near children.
c)	Do not put fingers or hands into the product.
d)	Use of an attachment not recommended or sold by power pack manufacturer may result in a risk of fire, electric shock, or injury to persons.
e)	To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the power pack.
f)	Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
g)	Do not operate the power pack with a damaged cord or plug, or a damaged output cable.
h)	Do not disassemble the power pack, take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
i)	To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed servicing.
j)	WARNING – RISK OF EXPLOSIVE GASES.
	1) To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of the battery. Review cautionary marking on these products and on engine.
k)	PERSONAL PRECAUTIONS

	1) Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
	2) Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
	3) If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.
	4) NEVER smoke or allow a spark or flame in vicinity of battery or engine.
	5) Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short-circuit battery or other electrical part that may cause explosion.
l)	When charging the internal battery, work in a well ventilated area and do not restrict ventilation in any way.
m)	Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
n)	Do not expose a power pack to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion. The temperature of 130°C can be replaced by the temperature of 265°F.
o)	Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.

## 1.Usage

- Do not stack any heavy objects on the product.
- Please avoid impact, falls or severe vibrations when using the product. Do not use the product after it has been hit by a strong force or dropped from a height.
- Do not use wires or other metal objects to cause product short circuit.
- The use of unofficial components and accessories is strictly prohibited. For replacement, please check the relevant purchase information on the Growatt official website([www.growatt.com](http://www.growatt.com)). Growatt is not responsible for product accidents and malfunctions caused by the use of products not officially provided by Growatt.
- Do not disassemble the product in anyway or pierce the product with sharp objects.
- Make sure the machine is turned off before installing or unplugging any modules of the machine, otherwise the power interface may be damaged.
- Avoid exposing the product to water. Do not immerse the product in water or get it wet. Do not use the product in rain or humid environment, otherwise the battery may catch fire or explode.
- If you accidentally drop the product into water while using it, please stay away from the product and keep it in a safe open area until the product is completely dry. The dried product should not be reused again and should be disposed of properly according to the disposal guide in this manual.
- Do not use the product in an environment of strong static electricity or magnetic field; otherwise, it may cause the product to malfunction or even serious damage.
- Do not place this product in a microwave or pressure cooker.
- The operating environment temperature of this product is from -10°C to 45°C. Using this product in a high temperature environment may result in a fire or explosion. Conversely, using the product at ultra-low temperature will seriously degrade the product performance and may cause the product to stop working.
- If the product catches fire, it is recommended to use fire extinguishing equipment according to the following priorities: water or mist, sand, fire blanket, dry powder, carbon dioxide fire extinguisher.
- You may use a dry cloth to clean off the dirt on the product

## 2.Storage and Transportation

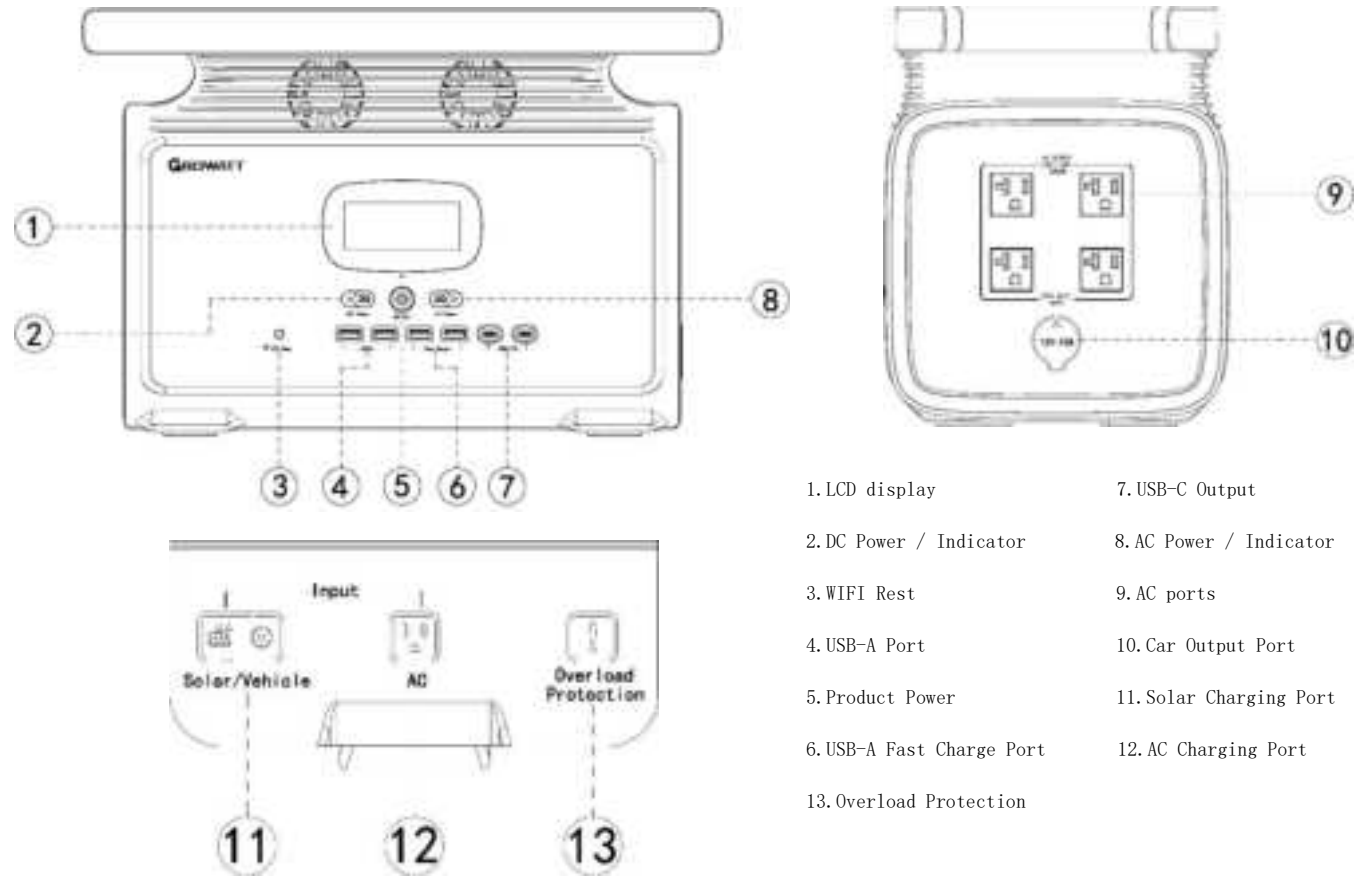
- Keep the product out of the reach of children and pets. If your child accidentally swallows product parts, seek for medical help right away.
- For long-term storage, keep the battery level between 30%-80% and store it indoors. If the battery of the product is in a low-power state for a long time, the battery will enter a deep sleep mode, and the battery may even be damaged in a serious low-power state. To wake the battery from deep sleep, please recharge the portable power station.
- Do not place the product near a heat source, such as in a fire or a heating furnace.
- The product should be stored in a dry environment. Do not place the machine in water or where it may leak.

5. During transportation, please make sure that the power of the product is less than 30%.
6. Do not store or transport this product with eyeglasses, watches, metal necklaces, hairpins, or other metal objects.

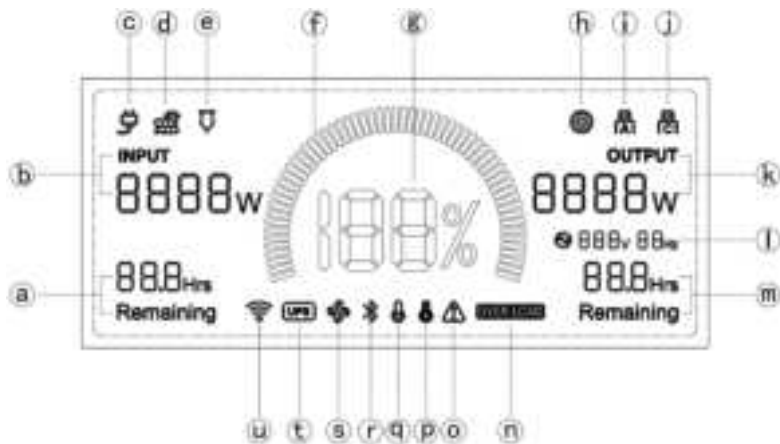
3. Disposal Guide

1. Be sure to completely discharge the machine battery before placing the machine battery in the designated battery recycling bin. Batteries are hazardous chemicals and should not be disposed of in ordinary trash cans. Follow local laws and regulations for battery recycling and disposal.
- 2.Please dispose of over-discharged batteries that cannot be recharged












Getting to Know the INFINITY 1300



LED Display



	Indicators	Description
a	Remaining Charge Time	The remaining charging time calculated by the system based on the current power consumption, accurate to 0.1 hour.
b	Input Power	The total input power of wall charge, solar charge, and car charge.
c	AC Input Indicator	INFINITY 1300 is being charged using the wall charger.
d	PV Input Indicator	INFINITY 1300 is being charged using the solar panels.

e	 <b>Car Input Indicator</b>	INFINITY 1300 is being charged using the car charger..
g	<b>Remaining Battery Percentage</b>	Displays the current remaining battery percentage in real time.
h	 <b>Car Output Indicator</b>	INFINITY 1300 is supplying power to external devices via the car output port.
i	 <b>USB-A Output Indicator</b>	INFINITY 1300 is supplying power to external devices via USB-A port(s).
j	 <b>USB-C Output Indicator</b>	INFINITY 1300 is supplying power to external devices via USB-C port(s).
k	<b>Output Power</b>	The total output power of DC, AC, and wireless charging.
l	<b>Output Voltage and Frequency</b>	Displays the current AC output voltage and frequency.
m	<b>Remaining Discharge Time</b>	The remaining discharging time calculated by the system based on the current power consumption, accurate to 0.1 hour.
n	<b>OVERLOAD Warning</b>	The current total output power is higher than 1800W, the AC output will be stopped for battery protection.
o	 <b>System Alert</b>	The product is not working properly. Check the error codes in the appendix to understand the cause of the error and find the solution.
p	 <b>High Temperature Warning</b>	The temperature of INFINITY 1300 is too high. Please place the product in an open area for cooling.
q	 <b>Low Temperature Warning</b>	The current battery temperature is low, and the charging efficiency will be reduced. Keep using the product, and the charging efficiency will return to normal as the temperature rises.
r	 <b>Bluetooth Indicator</b>	The product is connected to Bluetooth and can be controlled remotely through the MyGro APP.
s	 <b>Fan Status Indicator</b>	The fan is running to cool the product.
t	 <b>UPS Indicator</b>	The product has turned on UPS mode to provide uninterrupted power to your devices.
u	 <b>Wi-Fi Indicator</b>	The product is connected to Wi-Fi and can be controlled remotely through the MyGro APP.

## How to Use

Before use, please put INFINITY 1300 on a clean and flat ground to ensure that the machine will not be in contact with liquid or tilted, and check whether there are foreign objects on the body.

### Product ON/OFF

- A) To turn on the INFINITY 1300, long press the power button until the screen lights up.
- B) To turn off the INFINITY 1300, press and hold the power button until you hear a beep and observe the "OFF" prompts on the screen.

### LCD Screen

- C) After a period of inactivity, the screen will be turned off to save power.
- D) To wake up the screen, short press the DC or AC button.

### Output Power ON/OFF:

#### DC:

- C) Short press the DC power button to turn on the DC output supply (including all USB ports and car output port). You should hear a "beep" sound and observe that the DC power indicator lights up.
- D) To turn off the DC output power, short press the DC power button. You should observe that the DC power indicator lights off.

When the output power of a single DC port exceeds the rated power below, the system will trigger an overload alarm and cut off the DC output.

The maximum output power of a USB-A port is 12W

The maximum output power of a Fast Charge USB-A port is 18W

The maximum output power of a USB-C port is 100W.

### AC Power ON/OFF:

**E) To turn on the AC output supply, short press the AC power button, and you will observe the AC power indicator lights on. Wait for 5 seconds to activate the AC power supply, then you should be able to charge your equipment using AC output ports.**

**F) Long press the AC power button for 6 seconds to change AC frequency mode (50HZ/60HZ).**

The total output power of the AC output ports is up to 1800W (the sum of the four ports). When the total output power exceeds the rated power, the product will trigger overload protection, cut off the AC output and prompt an overload alarm. Unplugging the AC load will clear the alarm and restore normal AC output.

## Wireless

**G) Wireless charging is automatically activated when the product is powered on. You can charge wirelessly simply by placing the device within the wireless charging range on top of the product.**

This feature is only available for devices that support wireless charging. Slow breathing blue light indicates wireless charging, sky light flashing indicates wireless charging error, green light on for 30 seconds means the wireless device has just been taken out or just turned on.

## Connection:

**H) Long press the WIFI button for 3 seconds to reset the connection with your smart devices.**

## How to Recharge

### Notice before charging.

1. This product supports wall charging, solar panel charging, and car charging.
2. This product supports charging and discharging at the same time.
3. Do not use a charging cable not officially designated by Growatt for charging. Otherwise, Growatt will not be responsible for any consequences.
4. When charging, please make sure to place the machine away from liquids, flammables, and combustibles.
5. If the product is charged immediately after full-load discharge, over-temperature protection may be triggered for battery safety reasons. It typically takes 2-3 hours for the product to cool down before another charge.
6. The product's rechargeable temperature is 32°F~104°F (0°C~40°C). Charging within the ideal charging ambient temperature 50°F~82.4°F (10°C~28°C) can greatly extend the battery life.

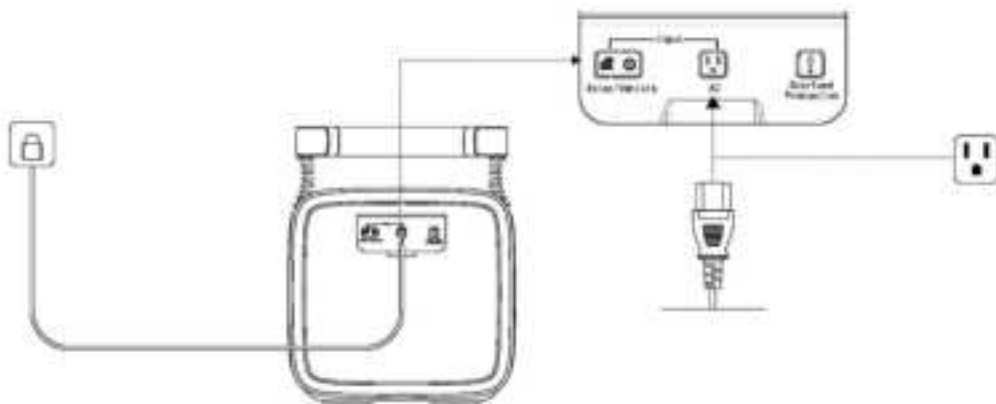
## I) AC Charging and Car Charging

The charging ports for the INFINITY 1300 locate on the left side of the product. The charging port for the INFINITY 1300 is on the left side of the product.

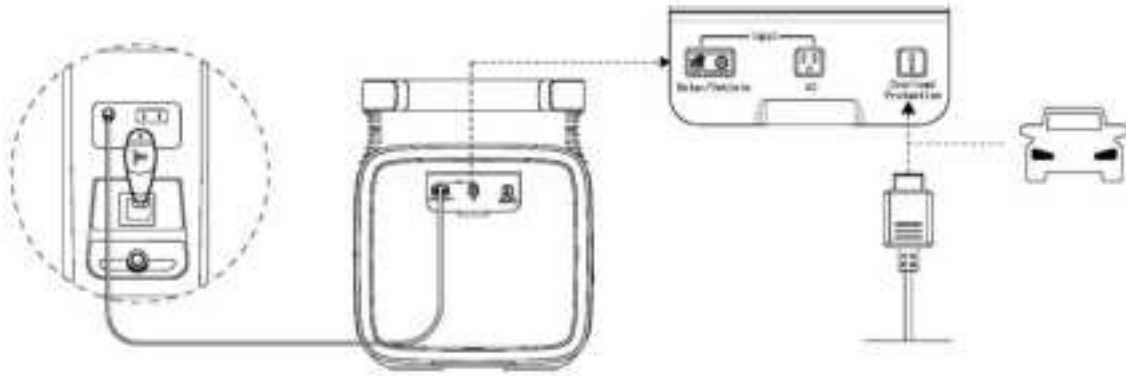
Please follow the instructions below to connect and recharge the product.

### a) AC Charging.

The AC input voltage range is 100-120Vac. When the AC input is overloaded, the circuit breaker will be activated to protect the battery from damage.



### b) Car Charging.



## II) PV Charging

The series and parallel connection methods of solar panels will be explained here to ensure that you are connecting the solar panels correctly for charging. If the product is damaged due to incorrect connection not in accordance with the instructions, Growatt will not be responsible for the free maintenance of the machine within the warranty period.

The solar charging ports for the INFINITY 1300 locate on the left side of the product.

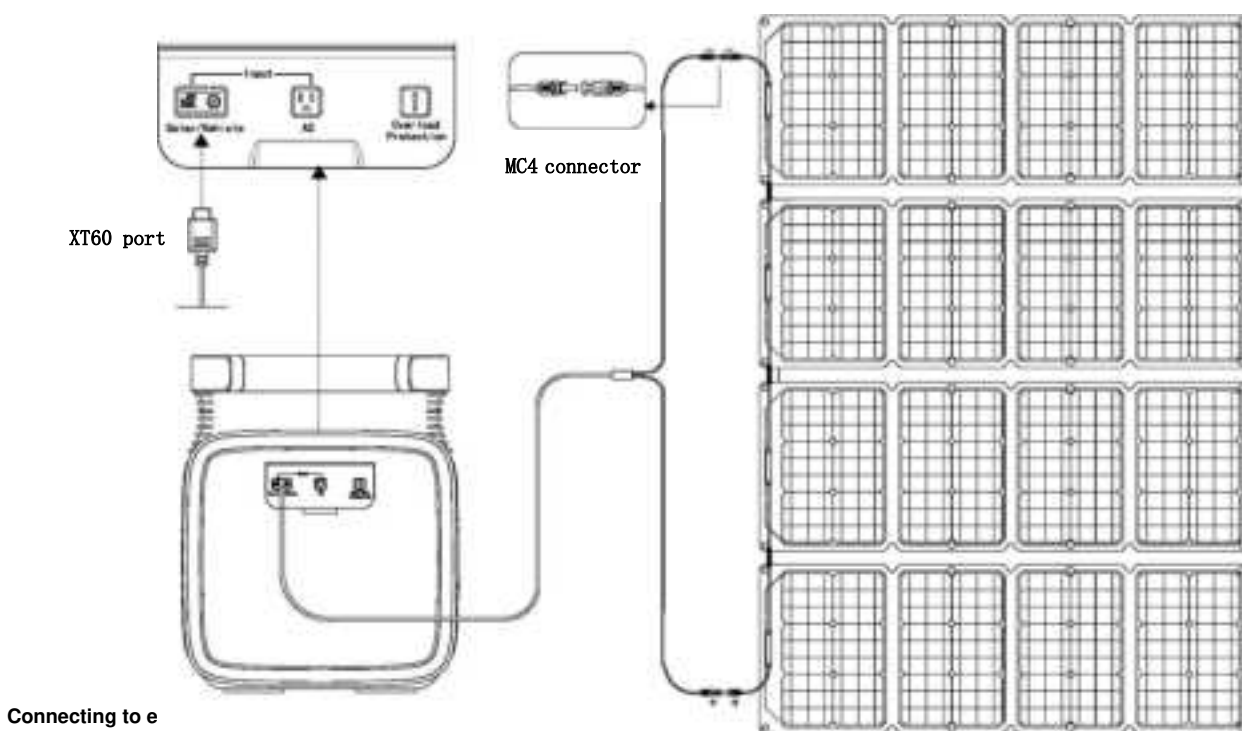
The INFINITY 1300 DC input range is 12V-100V. You must ensure that the input voltage is within the specified range. When the input voltage exceeds 100V, the excessive voltage may cause damage to the product, and the INFINITY 1300 will trigger overvoltage protection.

\* This product supports AC and solar panel charging at the same time. The solar charging method is preferred, and the AC charging method is used to supplement when the PV input power is insufficient.

### 1.Connect with Growatt Solar Panels

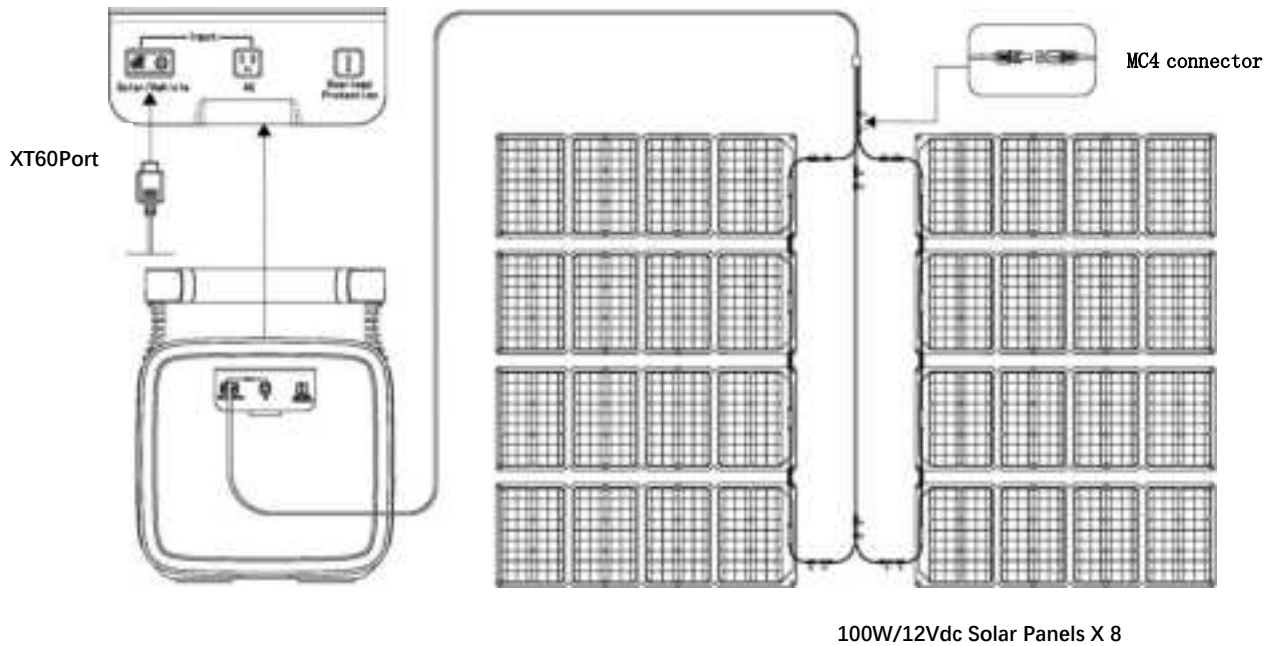
You can charge the INFINITY 1300 by connecting up to four 24V solar panels in series or using eight 12V solar panels (two sets in parallel with each set of 4 panels in series). Connect the MC4 connector on the solar panel to the MC4-XT60 adapter cable, and supply power to the INFINITY 1300 through the XT60 port on the side of the INFINITY. When you need to connect two solar panels, it is recommended to connect the two solar panels in parallel, and then use the MC4-XT60 adapter cable to connect to the INFINITY 1300 for charging.

#### Connecting to four 24V/200W solar panels in series



Connecting to e

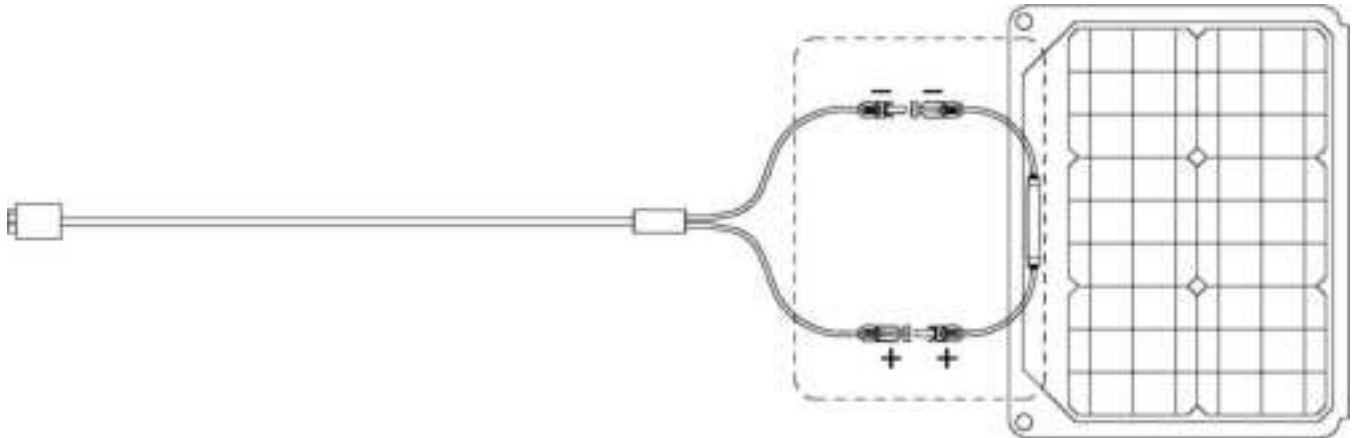
200W/24Vdc Solar Panels X 4



## 2.Connect with Other Branded Solar Panels

Users can purchase other brands of solar panels (supporting MC4 Connector) to power the INFINITY 1300 through their own channels. As long as the voltage and current are within the DC input range of INFINITY 1300 (10-100V 12AMax), users can charge INFINITY 1300 through the MC4 to XT60 adapter cable.

Please follow the figure below to connect the positive and negative poles. Incorrect connection may result in damage to the product. During the warranty period, if the product is damaged due to quality problems of the third-party solar panels or improper operation, Growatt is not responsible for free maintenance during the warranty period.



## Instructions for Advanced Features

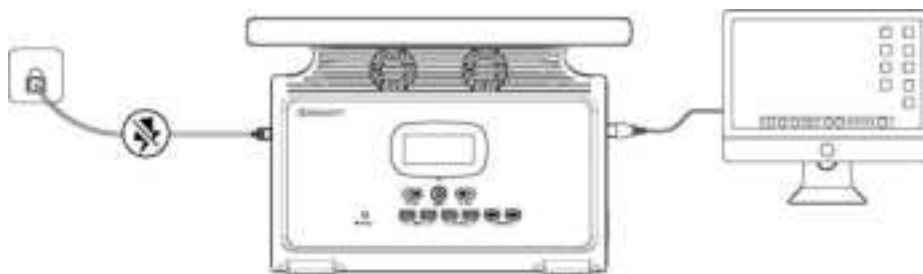
### I) UPS (Uninterruptible Power Supply)

The INFINITY 1300 supports UPS (Uninterruptible Power Supply) function. In UPS mode, the AC power comes from the grid, not the battery. When the power grid is cut off, INFINITY 1500 will automatically switch to battery power supply mode within 20ms, providing high stability power supply for your load.

#### UPS Use Guide

When using wall charging as the input method, turning on the AC output and plugging in devices on AC ports will automatically activate the UPS mode. Please connect the device according to the figure below to enable the UPS function.





### Precautions before using the UPS feature

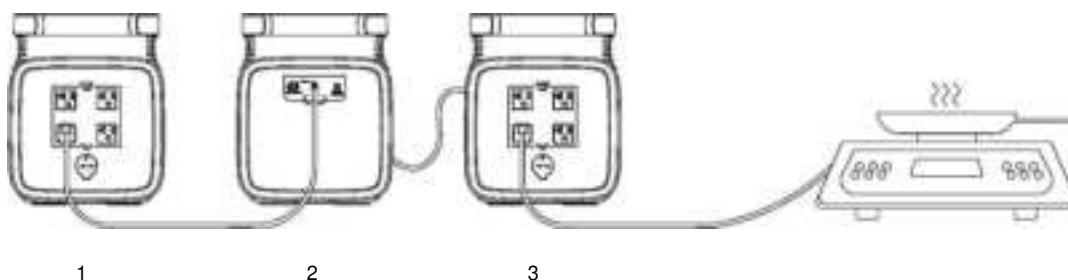
1. This function is a non-professional UPS function and does not support 0ms switching. Please do not connect it to equipment that is highly sensitive to uninterrupted power supply, or perform multiple tests before use.
2. UPS only supports the use of electrical appliances below 1800W, and do not use other devices at the same time during use to avoid OVERLOAD protection.
3. UPS function is only supported when one INFINITY 1300 is running independently, and it is not available when multiple INFINITY 1300s work in series.
4. Growatt is not responsible for equipment failure or loss of data if the instructions are not followed.

## II) Multi-unit Expansion in Series

You can use AC adapters to connect up to three INFINITY 1300 in series to get a larger battery capacity.

When you use this expansion method, you will need to define one of the units as the master and the rest as slaves. You need to connect the AC output port of the master unit to the AC input port of Slave 1, then connect the AC output port of Slave 1 to the AC input port of Slave 2, then plug the load device into the AC output port of Slave 2 (as shown in the figure below), and finally turn on the AC output power of all INFINITY 1300 to enable battery expansion.

When using this expansion method, make sure that each unit is fully charged, otherwise an overload protection will be triggered. After use, it is recommended to charge each unit separately to avoid excessive burden on the home grid.



### Technical Specifications

General	
Weight	42.33lbs (19.2KG)
Dimensions (L x W x H)	16.5*8.4*11in (41.8*21.4*28.0cm)
Capacities	51.2V*27Ah (1382wh)
Certifications	FCC,CE,ETL
Output Ports	
AC Output (X4)	1800W (surge 3600W) total
Full Sine Wave	120Vac (60Hz) / (50Hz)
USB-A (X2)	5VDC, 2.4A, 12W MAX
USB-A Fast Charge (X2)	5V/2.4A, 9V/2A, 12V/1.5A 18W MAX
USB-C (X2)	5V, 9V, 12V, 15V, 20V/5A 100W MAX
Car Charger (X2)	13.2V/10A 132W MAX

Input Ports	
AC Charger	1200W MAX
AC Input Voltage	100V-120Vac, 60Hz
DC Charger	12-24Vdc/8A MAX

Battery Information	
Cell Chemistry	Lithium-ion
Discharge Temperature	-10°C ~ 45°C
Charge Temperature	0°C ~ 45°C
Optimal Operating Temperature	10°C ~ 28°C
Shelf Life	1 Year (after fully charge)
Lifecycle	3000 Cycles/80%

### FAQ

#### Can I take INFINITY 1300 on a plane?

No, you can't. This product is a lithium battery product. According to international air transport regulations, lithium battery products exceeding 100Wh cannot be carried on the plane.

#### Why does the Infinity 1300 not work properly when the total output power of the device is within the rated power of the INFINITY 1300?

First, please check whether the power of the product is too low, and charge the product in time. Secondly, check that the instantaneous power of the equipment exceeds the instantaneous peak power of INFINITY 1300. If so, you should use Growatt higher power products.

**Why does the INFINITY 1300 make noise when in use?**

The product adopts an air cooling system, and the built-in fan helps the product to dissipate heat. A slight noise when the product is in use is normal.


**Will INFINITY 1300 automatically shut down?**

INFINITY 1300 supports power saving function. By default, the LCD display will turn off after 5 minutes of inactivity, and will automatically shut down after another 12 hours of inactivity. You can change the automatic screen-off and automatic shutdown time via MyGro APP.

**How to clean INFINITY 1300?**

If the INFINITY 1300 needs to be cleaned, please wipe it with a dry, non-abrasive cloth or use a special cleaner for LCD screens to achieve better cleaning results. Do not let water enter the inside of the product, which may cause damage to the circuit or parts!

\*Error Codes

Indicator	Problem	Solution
 A00	<b>System Alert</b>	Restart the portable power supply. If the problem persists after several attempts, please contact Growatt Customer Service for repair.
  A01	<b>Fan Blockage</b>	Please check if the fan is blocked. If there is a blockage, please turn off the machine and remove the blockage, then restart the product to return to normal. If the problem persists, please contact Growatt Customer Service for repair.
  A02	<b>High Temperature Warning</b>	Turn off the product and place it in an open area for 2-3 hours. After cooling, the product will continue to work normally,
  A03	<b>Inverter Overload</b>	The AC output is overloaded. Unplug the load(s) on the AC output port(s) and keep the total AC output power within 2000W to resume normal operation. Overloading for a long time may cause damage to the product.
 A04	<b>Low Battery Voltage</b>	The battery voltage is too low. Please recharge the battery in time.
 A05	<b>PV Over Voltage</b>	PV input voltage is too high. Please check the status of the solar panel. If the output voltage of the solar panel is normal, please contact Growatt Customer Service for repair.
 A06	<b>USB Output Overload</b>	Please check the output power of your USB devices. Remove your USB device(s) if the output exceeds the maximum output of the USB port(s).
  A07	<b>Product Overload</b>	The INFINITY 1300 is overloaded. Unplug part or all of the loads and keep the total output within 2400W to resume normal operation.
  A08	<b>PV board over temperature</b>	Disconnect the solar panels from the portable power station to resume normal operation.
  A09	<b>Discharge Over Temperature</b>	Turn off the product and place it in an open area for 2-3 hours. After cooling, the product will continue to work normally,
  A10	<b>High Battery Temperature</b>	Turn off the product and place it in an open area for 2-3 hours. After cooling, the product will continue to work normally.
  A11	<b>Low Battery Temperature</b>	Keep discharging the power station, the temperature will rise and the product will resume normal status. If the error persists, contact Growatt Customer Service for repair.
 A12	<b>Car charging overcurrent</b>	Please check whether the input meets the specification of car charging. Remove the car charger to resume normal operation.
F00	<b>System Failure</b>	Restart the portable power supply. If the problem persists after several attempts, please contact Growatt support team for repair.
F01	<b>Output Short Circuit</b>	Please check if there is a problem with the output loads. Remove the loads to resume normal operation. If the problem persists, please contact Growatt Customer Service for repair.
 F02	<b>Product Over Temperature</b>	Turn off the product and place it in an open area for 2-3 hours. After cooling, the product will continue to work normally.
 F03	<b>Inverter Overload</b>	Please make sure the total output power is within the acceptable range. Remove the excess loads to resume normal operation. If the problem persists, contact Growatt Customer Service for repair.

fault phenomenon	Troubleshooting	Solution
<b>INFINITY 1300 can't charge</b>	1. The charging cable and the mains interface are not plugged in properly.	Double check that the interface of the charging cable is in good contact.
	2. Whether the mains input overload button has popped up.	Press the protect button back.
	3. There is nothing wrong with the above, but you also can't charge.	Contact Professional Repair.
<b>INFINITY 1300 can't be loaded</b>	1. The device and INFINITY 1300 cable are not plugged in properly.	Check if the connection is active, keep the connection fit tightly.
	2. Output port switch not turned on.	Turn on the DC or AC output switch, there will be beeps and indicators to remind you.
	3. battery too low.	Charge the INFINITY 1300.
	4. Whether the instantaneous start-up power of the equipment is greater than that of the INFINITY1300 rated.	Choose the product rated power bigger.
	5. There is nothing wrong with the above.	Contact Professional Repair.

#### FCC STATEMENT

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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

#### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, Human proximity to the antenna shall not be less than 20cm(8 inches)during normal operation.

That changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## ISED Statement

English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada.

L'exploitation est soumise aux deux conditions suivantes :

- (1) Cet appareil ne doit pas provoquer d'interférences.
- (2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil. L'appareil numérique du CIEM conforme canadien peut - 3 (b) / NMB - 3 (b).

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian Information on RF exposure and compliance.

Cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du CNR - 102 et conformité avec RSS 102 de l'exposition aux RF, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs RF et la conformité.

For Bluetooth and Wi-Fi

Pour Bluetooth et Wi-Fi

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

For WPT

Pour le WPT

This equipment should be installed and operated with minimum distance 10cm between the radiator & your body.

Cet équipement doit être installé et utilisé à une distance minimale de 10 cm entre le radiateur et votre corps.

This equipment contains a certified radio transmission module:

FCC ID: 2ATPO-ESP-C3-X