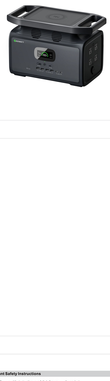
GROWATT

INFINITY 1500 PORTABLE POWER STATION

USER GUIDE



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Important Safety Instructions

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

Usage

- Read all the instructions before using the product.
- Do not disassemble the product by yourself.
- Do not put any heavy objects on the product.
- To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the charger.
- Do not expose to heat sources, fire or liquids (rainwater) when using the product. Do not use the product after it has been in a strong force or impact that is large.
- Do not use the product in a humid environment. Operating at a room temperature between 0°C and 40°C is recommended.
- The use of accessories not expressly recommended, which may result in a risk of fire, electric shock, or injury to persons. For replacement, please check the relevant purchase information on the Growatt official website.
- Please keep the product out of the reach of children. Please provide the product assembly and instructions carefully for your children to use efficiently and thoroughly.
- Do not disassemble the product or attempt to service the product with other objects.
- Do not use the product if the product has been modified or damaged beyond the limitations of the warranty, otherwise the power supply may be damaged.
- Avoid exposing the product to water. Do not immerse the product in water or get near. Do not use the product in rain or snow. Do not operate the product with wet hands or while standing in water.
- If you accidentally drop the product in water while using it, please take the plug out of the product immediately! It is safe to use and the product is unaffected. The short circuit protection in the product has its reused again and should be disposed of properly.
- Do not use the product in a location that can hinder its ventilation openings. Leaving at least 50cm/20in of clearance around the unit for adequate ventilation is recommended.
- Do not use cables and / or appliances that are damaged or altered. Damaged or modified batteries may exhibit unpredictable dangerous resulting in fire, explosion or risk of injury.
- Do not use the product for any purpose other than its intended use. Improper equipment according to the following activities: water or rain, acid, flammable, explosive, and/or chemically corrosive.
- You may use only cords or cables with the item as the product.

Storage and Transportation

- Store the product out of the reach of children and pets. If you short-circuit accidentally, please put it quickly, wait for hardware to cool down.
- For long-term storage, keep the battery level between 30% -80% and recharge it every 6 months. If the battery of the product is in low power, please recharge it in time to avoid damage to the battery. Please store the product in a dry and cool environment. Avoid exposure to direct sunlight. Store in a dry place, away from strong fire and other power sources.
- Do not place the product near a heat source, such as a fire or a heating furnace. The product should be stored in a dry, well-ventilated area with a temperature between -20°C and 45°C.
- During the transportation, please make sure that the power of the product is not less than 30%.
- Do not store or transport if the product with sunglasses, watches, metal hardware, hairpins, or other metal objects.

Important Note

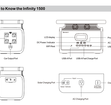
- Be sure to completely discharge the machine battery before placing the machine battery in the designated battery recycling bin. Batteries must not be thrown in fire or disposed of in ordinary trash bins. Follow local laws and regulations for battery recycling and disposal.
- Please thoroughly read these instructions that contain the warnings.

Package Contents

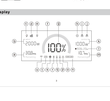
Infinity 1500*Portable Power Station

User Manual and Warranty Card

1 x AC Charging Cable



MC4 to XT90 Solar Panel Charging Cable



1 Set Car Charging Cable

Getting to Know the Infinity 1500

LED Display

	Indicators	Description
A	Remaining Charge Time	The remaining charging time estimated by the current measure of the current power. Only displayed when charging.
B	Input Power	The total input power of all charge, solar, driver, car charge.
C	AC Input Indicator	Infinity 1500 is charging integrated using the wall charger.
D	PV Input Indicator	Infinity 1500 is charging integrated using the solar panel.
E	Car Input Indicator	Infinity 1500 is charging integrated using the car charger.
Big	Remaining Battery Percentage	Displays the current remaining battery percentage in real time.
F	Car Power Indicator	Infinity 1500 is discharging integrated using the car socket port.
G	USB-A Output Indicator	Infinity 1500 is supplying power to external devices via USB-A port(s).
H	USB-C Output Indicator	Infinity 1500 is supplying power to external devices via USB-C port(s).
I	Output Power	The total output power of DC, AC, and wireless charging.
J	Input Voltage/Frequency	Displays the current input voltage and frequency.
K	Remaining Discharge Time	The remaining time estimated by the current measure of the current power. Only displayed when discharging.
L	Infinity 1500 Warning	Displays the warning code when Infinity 1500 is malfunctioning. Please consult the support for battery information.
M	Battery Level	The battery level is shown by the number of bars from the capacity in 20% increments. Each bar represents 20%.
N	Total Temperature Warning	The temperature of Infinity 1500 is too high. Please place the product in a cool area.
O	Input Power Indicator	Displays the current input power of AC, solar, driver, car charge.
P	Output Power Indicator	Displays the current output power of AC, solar, driver, car charge.
Q	Bluetooth Indicator	The product is connected to the app and can be controlled remotely through the Growatt App.
R	Fan Status Indicator	The fan is working in a low-load environment.
S	UPS Indicator	The product has a built-in UPS and is switched to battery power in an outage.
T	Wi-Fi Indicator	The product is connected to Wi-Fi and can be controlled remotely through the Growatt App.

How to Use

Before use, please turn Infinity 1500 on to ensure that the product is activated that the machine will not be in contact with liquid or dried, short-circuit interior rivers and foreign objects on the body.

Product On/Off

1) To turn on the Infinity 1500, long press the power button until the screen lights up.
2) To turn off the Infinity 1500, long press the power button until the screen goes off and observe for the "OFF" prompts on the screen.

LED Screen

1) Infinity 1500 LCD power button to turn on the LCD manually to brightness will dim and can output ports. You should know of these "secure and observe that the DC power indicator lights up.
2) Infinity 1500 LCD power button to turn on the LCD manually to brightness will dim and can output ports. You should observe that the DC power indicator lights off.
3) When the solar power is at the DC input port of the solar panel source, the screen will not trigger.
4) Infinity 1500 LCD power button to turn on the LCD manually to brightness will dim and can output ports. You should observe that the DC power indicator lights off.
5) The maximum output power of the Charger Output Port is 100W.
6) The maximum output power of the USB-C port is 60W.

Power Saving Mode

1) When the Infinity 1500 is powered on and no power source, and you will observe the DC power indicator lights on. Wait for 5 seconds to activate the DC power supply, then you should be able to charge your equipment using AC output ports.
2) When the Infinity 1500 is powered on and no power source, and you will observe the DC power indicator lights on. Wait for 5 seconds to activate the DC power supply, then you should be able to charge your equipment using AC output ports.
3) The maximum output power of the Charger Output Port is 100W.
4) The maximum output power of the USB-C port is 60W.

Wireless Charging

1) Wireless charging is activated and the LED power is turned on. You can check whether by placing the device within the wireless charging area of the product.
This feature is only available for devices that support wireless charging. You can check the wireless charging status by:
Wireless charging: wireless charging is working.
Slow Charging Fan: power is low and energy is being saved.
Flashing plug icon: an error occurred during wireless charging.
Blank screen: wireless charging is ready, but no devices are detected.

How to Recharge

Multi-Infinity Charging

- This product supports multi-charging, solar panel charging, and car charging.
- Please use the original charging cable to charge the product.
- The product charging cable can be plugged into a 100-240V AC outlet for charging. Otherwise, it could will not be responsible for any consequences.
- Please keep the product inside and in place the machine away from liquids, flammables, and combustibles.
- If the product is charged and electronic after the user has charge, user temperature protection may be triggered for battery safety reasons. It typically takes 2-3 hours for the product to cool down before a charge.
- Please charge the product in an environment between 0°C -40°C. Charging within the charge performance temperature range will help extend the battery life.

1) AC Charging

The charging speed for the INFINITY 1500 relies on the wall side of the product. The charging point for the Infinity 1500 is located on the front of the product. Please follow the instructions below to connect and recharge the product.

2) AC Charging

3) PV Charging

- The solar panel 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 discharged due to improper connection it is not in accordance with the instructions in this manual, please contact the support for battery information.
- Please charge the product in an environment between 0°C -40°C. Charging within the charge performance temperature range will help extend the battery life.
- The Infinity 1500 DC input range is 12V-150V. The most ensures that the input voltage is within the specified range. When connecting solar panels in series, please ensure that the total voltage does not exceed the limit, and the Infinity 1500 will trigger overvoltage protection.
- The product supports DC and solar power charging at the same time. The total charging method is performed, and the AC charging method is used to supplement when the PV input power is insufficient.

4) Connect with Ground-Solar Panels

You can charge the Infinity 1500 by connecting up to four 200 watts panels in series or using eight 100 watts panels that are in parallel with each set of panels in series. Connect the MC4 connector on the solar panel to the MC4 XT90 adapter cable, then connect the XT90 connector to the Infinity 1500 solar charging port. Please refer to the following diagram for the correct connection method. Do not connect in parallel, and then use the Infinity 1500 adapter cables to connect to the Infinity 1500 for charging.

Connecting to four 200/100W solar panels in series

200/100W Solar Panel x4

Connecting to eight 200/100W solar panels (two sets in parallel with each set of panels in series)

200/100W Solar Panel x8

5) Connect with Other Branded Solar Panels

Users can purchase other brands of solar panels (supporting MC4 Connectors) to power the Infinity 1500 through their own solar panels. Please refer to the following diagram for the correct connection method. Do not connect in parallel, and then use the Infinity 1500 adapter cables to connect to the Infinity 1500 for charging.

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, or the product will be damaged and will not work. Some of the third-party solar panels or improper operation. Growatt is not responsible for Free maintenance during the warranty period.

6) Precautions before using the DT Battery

- The inverter is a non-professional UPS function and does not support line switching. Please do not connect it to equipment that is highly sensitive to uninterrupted power supply, or you will not be responsible for any consequences.
- The UPS function is only supported when the Infinity 1500 is connected to the AC input.
- UPS function is only supported when one Infinity 1500 is turning independently, and it is not available when multiple Infinity 1500 are connected in parallel.
- The UPS function is only supported when the Infinity 1500 is connected to the AC input.

7) Multi-unit Expansion in Series

You can add 2 expansion batteries and three Infinity 1500s in series to get a large battery capacity.When you use the expansion method, you will need to define one of the units as the master and the rest as slaves. You need to connect the expansion battery to the master unit first, and then connect the slave unit to the master unit. Please refer to the figure below. If you connect them, it may be that the device has the function of Infinity 1500 and Infinity 1500 Expansion Battery.

When using the expansion battery, please ensure that the battery is charged. Otherwise, it will not be powered and will be triggered. After use, it is recommended to charge each unit separately to avoid excessive loads on the product.

Local Bluetooth Control

a) Go to the **Device** page and click **Pair via Bluetooth** to select the " " button at the top right of the page.
b) Select **Infinity 1500**.
c) Follow the instructions on the APP and finish the pairing.

d) Once you complete the connection setup, you may remotely control your portable power station through local connection (Bluetooth) or remote connection (WiFi).

How to connect to APP

1) Binding the Product with Your Device

When the product is connected to the APP for the first time, you need to be prepared by network configuration. Please follow the steps below to complete the binding. Please make sure your phone is connected to the Internet.
1. Download "BigBlue" APP from App Store or Google Play. Or you may download it from the official website https://www.growatt.com/. From the first time users, you need to follow the instructions to register an account.

2. Please make sure that the following ways to connect your portable power station:

Remote WiFi Connection

a) Go to the **Devices** page and click **Add Device**. Or select the " " button at the top right of the page.
b) Select **Infinity 1500**.
c) Connect your phone to **5G-WiFi** (Recommended) or **2.4G-WiFi** signals and scan and connect with your mobile devices.
d) Follow the instructions on the APP and finish the rest of settings.

2) Re-binding the product with New Mobile Devices.

If the device is already bound to a mobile device, you need to unbind the product from the current device before rebinding it to a new mobile device. Please follow the steps below to complete the unbind and rebind process.

1. Unbind the device by selecting the **Device** page.
Method 1: Unbind using APP
a) Click **Remove Device** and confirm the process from the device list to see how physical details, and then click to remove the device.
Method 2: Unbind using APP
b) Click **Remove Device** and confirm.

c) Press any combination the product screen, you may remotely control your portable power station through local connection (Bluetooth) or remote connection (WiFi).

2. Rebind the device by following the above, please log in to the APP on the new mobile device to find the device. Please refer to the steps in **Binding the Product with Your Device**.

Will two multiple mobile devices be control the product?

If multiple users need to control the product, the master account needs to authorize other mobile accounts to allow other mobile devices to control the product.

1. Click **Device** to enter the device list page and go to enter the product.
2. Click **Device Sharing** to enter the sharing page.
3. Click **Add Sharing** and enter the account ID of the device to be shared, and send a sharing invitation.
4. Log in to the APP with the shared account and accept the sharing invitation.
5. The shared account enters the device list page, the authorized shared account will be unbound and disappear, and the device cannot be controlled remotely.

Following is your device and power output

The default power output is set to be 1800W, and it's allowed to be modified to a maximum of 2200W in the app as needed. Maximizing your power output will help you get the most out of your device. Be aware the faster running

Of the Infinity mobile devices to control the product

Of Multiple your devices power output

How to Use

General

Model	Infinity 1500
Capacity	1210Wh (1kWh)
Dimensions	16.5*11.7*12.2inch(419.1*297.4*310mm)
Net Weight	30.86lbs (14kg)

Input Ports

AC Input	100-120V~,20A/1800W/60Hz
PV Input	12V-150V, 12A/1800W

Output Ports

AC Output (3x)	120V~,15A/1800W, Pure Sine Wave (Surge Power: 3600W, 20ms) (Max. 2200W, 2200W/Output port)
Car Charger(1x)	12V, 10A/120W Max
USB-A(2x)	5V=2.4A, 12W Max
USB-C Port (Output/In)	5V=3.0A,9V=3.0A,12V=3.0A 5V=3.0A, 9V=3.0A,12V=3.0A,20V=5.0A
Type-C(2x)	5V=3.0A, 9V=3.0A,12V=3.0A,20V=5.0A/100W Max
Wireless Charging	5V=1.5A/10W

Battery Information

Battery Type	LiFePO4
Lifecycle	3000 Cycles@80%
Charging Temperature	0~40°C(32~113°F)
Discharging Temperature	-20~45°C(-4~113°F)

FAQ

Can I take Infinity 1500 on a plane?

No, you can't. This product is a lithium battery product. According to international air transport regulations, lithium battery products are prohibited from carrying on commercial flights.

Why does the Infinity 1500 not reach progress when the total output power of the device is within 1500W, and the battery is not fully charged?

Infinity 1500 has a built-in BMS battery protection function, and when the temperature is low, the battery will have the instantaneous power of the equipment exceeds the maximum power power of Infinity 1500. Then, you should use Growatt higher power products.

Why does the Infinity 1500 make noise when in use?

The product vibration of air cooling system, and the fan will start the helps the products to dissipate heat. A slight noise when the product is now is normal.

Will Infinity 1500 automatically shut down?

Infinity 1500 supports power saving function. By default, the LCD display will turn off after 5 minutes of standby, and will automatically shut down after 30 minutes of standby. You can change the automatic screen off and automatic shutdown time via the APP.

How to clean Infinity 1500?

If the Infinity 1500 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 into the inside of the product, which may cause damage to the product or parts.

Error Codes

Indications	Problem	Description
E 001	Fan Failure	Please first to troubleshoot whether the fan is blocked, otherwise please contact the support for battery information.
E 002	Fan Recharge	Please check the fan is blocked. If there is no blockage, please turn off the machine and restart it. If the problem persists, please contact the support for battery information.
E 003	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 004	Fan Failure	Please check whether the fan is blocked. If there is no blockage, please turn off the machine and restart it. If the problem persists, please contact the support for battery information.
E 005	Low Voltage Protection	The battery voltage is too low. Please recharge the battery in time.
E 006	Over Voltage Protection	Please check whether the input voltage of the product is too high. If the input voltage is normal, turn off the machine and restart it. If the problem persists, please contact the support for battery information.
E 007	Over Current Protection	Please check whether the load power of the product is too high. If the load power is normal, turn off the machine and restart it. If the problem persists, please contact the support for battery information.
E 008	Short Circuit Protection	Please check whether the product is short-circuited. If there is no short circuit, turn off the machine and restart it. If the problem persists, please contact the support for battery information.
E 009	Power Failure	The battery is low and the product is automatically shut down.
E 010	Product Overheating	The temperature of the product is too high. Please place the product in a cool area.
E 011	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 012	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 013	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 014	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 015	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 016	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 017	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 018	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 019	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 020	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 021	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 022	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 023	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 024	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 025	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 026	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 027	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 028	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 029	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 030	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 031	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 032	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 033	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
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E 040	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 041	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 042	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 043	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 044	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 045	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 046	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 047	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 048	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
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E 050	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 051	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 052	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
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E 056	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 057	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 058	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 059	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
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E 061	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
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E 081	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 082	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 083	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 084	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
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E 098	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 099	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.
E 100	Fan Failure	Turn off the product and restart it. If the problem persists, please contact the support for battery information.

Troubleshooting

Indications	Troubleshooting	Description
Infinity 1500 Not Working	Check if the battery level is too low	Please charge the product in time.
	Please check whether the machine is overheating. If it is, please stop using it.	Please be overheated protection mode.
	Contact Service of the problems persists	Contact Growatt Customer Service for repair.
	Check if the battery is not plugged in properly	Please make sure the product is properly connected with the battery.
	Contact Service of the problems persists	Contact Growatt Customer Service for repair.
Infinity 1500 Not Charging	Check if the input power is too low	Please charge the product in time.
	Please check the DC input power is normal. If the input power is normal, please turn off the machine and restart it.	Please charge the INFINITY 1500 in time.
	Contact Service of the problems persists	Contact Growatt Customer Service for repair.