

# gosun POWER 550 | 1100 User Manual

High capacity, portable  
solar generator



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Manual de usuario en Espanol  
Manuel d'utilisation en Français  
Gebruikershandleiding auf Deutsch  
日本語のユーザーマニュアル  
中文用 手册



# Table of Contents

Cautions & Warnings .....	1-2
Compatibility .....	2
What's Included .....	3
Product Specifications .....	3
Product Overview .....	4
Display Screen .....	5
How to turn on/off .....	6
How to charge .....	7
Tips & Tricks .....	8
Warranty .....	8

# Cautions & Warnings



## **Before using, carefully read and follow the instructions**

Misuse may cause the portable solar generator to generate excessive heat, rupture, smoke, catch fire, or otherwise cause a dangerous situation.

- ① The Power 550/1100 produces 110V AC, please use caution as these voltages can cause personal injury or death. Only use AC powered devices designed for safe use with 110V AC when using the unit's AC output.
- ② DO NOT leave out in the rain.
- ③ DO NOT use the power 550/1100 as a UPS for long periods (more than 24hrs) this will reduce battery life over time.
- ④ Do Not short circuit any of the inputs or outputs of the Power 550/1100.
- ⑤ Do not heat the Power 550/1100, or place near sources of heat or ignition such as space heaters, fires, or in direct sunlight.
- ⑥ DO NOT immerse in water or allow the Power 550/1100 to be rained on or splashed with water or other liquids.
- ⑦ Keep away from children.
- ⑧ Not intended for use by persons with diminished physical, sensory, or mental capabilities.
- ⑨ DO NOT disassemble, no user serviceable parts inside.
- ⑩ DO NOT drop, place heavy items on, or allow other items to impact with the Power 550/1100.

# Cautions & Warnings (continued)

- ⑪ DO NOT cover the Power 550/1100 with a cloth, towel, or other object that would prevent the unit from cooling itself.
- ⑫ DO NOT charge the Power 550/1100 if the ambient temperature of the unit is below freezing (32 F or 0 C), this can lead to immediate and permanent reduction in battery capacity.
- ⑬ DO NOT dispose of the Power 550/1100 in the trash or fire, please consult your local waste management agency for proper disposal instructions.

## Compatibility

- ① Solar Charging: The Power 550 and Power 1100 are designed to be compatible with all GoSun Solar Products with the 5.5 × 2.1mm outputs (As of the time this manual was written: Solar 30, Solar 100, Table 60, Table 120)
- ② 12V Loads: The Power 550 and Power 1100 are designed to power all GoSun 12V devices. (As of the time this manual was written: GoSun Fusion, GoSun Brew, GoSun Flow Heater, GoSun Chill, GoSun Chillest)

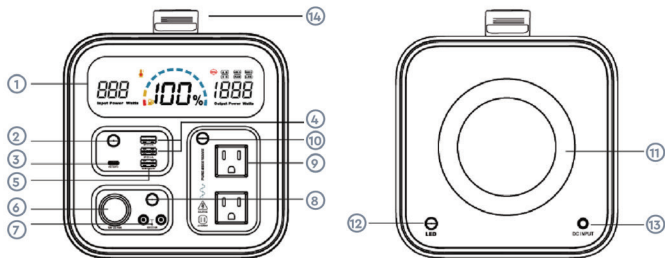
# What's Included

- 1 Portable Solar Generator: (Power 550 or Power 1100)
- 2 Car Adapter
- 3 AC Adapter

## Product Specifications

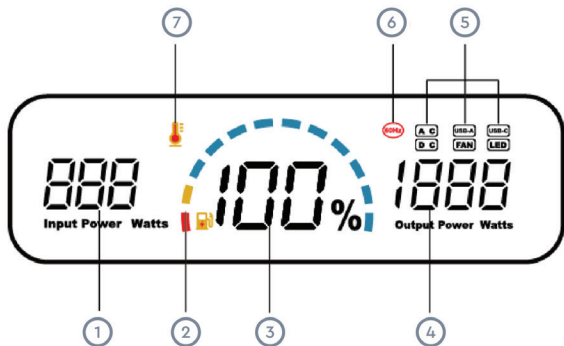
Model	Power 550	Power 1100
Dimensions (LxWxH)	192*192*218 mm (7.6*7.6*8.6) in	192*192*303 mm (7.6*7.6*11.9) in
Weight	6.8kg (15)lbs	11.5kg (25.4)lbs
Operating Temps	-10 to 40°C (14 to 104°F) [Do Not charge when below freezing (0°C/32°F)]	
Battery	Lithium-ion: 550Wh (148,800mAh @3.7V)	Lithium-ion: 1,100Wh (297,600mAh @3.7V)
Cycle Life	>800 charge cycles (while maintaining 80% capacity)	
AC Out Voltage	110V 60Hz Pure Sine Wave AC	
AC Out Power	600W @ 1.0 power factor	1,200W @ 1.0 power factor
AC Surge Power	1,000W @ 1.0 power factor	2,000W @ 1.0 power factor
Input (Adapter)	12-24Vdc	
Input (Solar)	18-24Vdc (max power: 300W)	
Input (Car)	12V Car Outlet (min 100W rated)	
USB-A Output	1 x USB QC3.0, 2 x USB 5V 2.4A	
USB-C Output	PD 45W, 5V/3A, 9V/3A, 12V/3A, 15V/3A	
12V DC Output	12.3Vdc @ 12.0Amps Max (Works for all GoSun 12V Products: Fusion, Brew, Flow, etc...)	
LED	5W, 450lm	
Charge Time	Approximately 6hrs (Adapter)	Approximately 12hrs (Adapter)

# Product Overview



- ① Display Screen
- ② USB Power Button
- ③ USB-C PD 45W Port
- ④ 2 x USB 5V 2.4A Ports
- ⑤ USB QC3.0 Port
- ⑥ Regulated 12V 12A Car Outlet
- ⑦ Dual Regulated 5.5 × 2.1mm 12V DC Out Ports
- ⑧ DC Output Power Button
- ⑨ 110V 60Hz AC Outlets
- ⑩ AC Output Power Button
- ⑪ 450lm LED Light
- ⑫ LED Power Button
- ⑬ DC Input Port (AC Adapter/Car Adapter/Solar)
- ⑭ Carrying Handle

# Display Screen



No.	Icon Name	Description
1	Input Power	Power (in Watts) entering the Power 550/1100 through the DC Input Port
2	Output Power	Total output power (in Watts) of all outputs
3	Battery Level Arc	Visual indicator of battery level, each segment represents approximately 9% of the total battery capacity.
4	Battery Percentage	% of battery capacity remaining
5	Thermometer	Indicates the Power 550/1100 is overheating
6	Frequency Indicator	Indicates frequency of AC Output
7	Operating Function Indicator	Indicates which functional sections of the Power 550/1100 are currently active

# How to turn On/Off

Each functional section of the Power 550/1100 can be turned on and off independently (USB, DC Outputs, AC Outputs, LED Light).

- ① To turn "on" any of these functions, press and hold that sections power button for 1.5 seconds
- ② To turn "off" that function, press and hold the same button for 1.5 seconds.
- ③ If multiple sections are active and you want to turn off the whole unit at once, press and hold any power button for 3+ seconds.

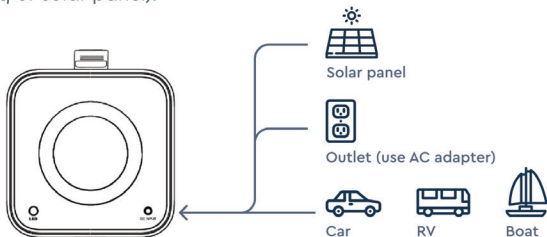
Note: turn off the AC outputs when not in use, as the inverter can consume 5-10W even when idle.

Each section has its own protection features. If any section is overloaded, it will shut down. If this happens, disconnect the attached load, and turn the section on again. Please note the limits of each section to ensure you do not overload the Power 550/1100.



# How to charge

All charging sources use the same DC Input Port on the back of the unit. Simply plug the charging source of choice (AC adapter, car adapter, or solar panel) into the DC Input Port, and connect the other end of the cable into the power source (wall outlet, car outlet, or solar panel).



## Charging Source Guide

Input Type	Maximum Charging Power	Approximate Charge time (Power 550)	Approximate Charge Time (Power 1100)
AC Adapter (22V 5A)	110 Watts	5.5–6 hrs	11–12 hrs
Car Adapter (Engine Off)	50 Watts	11+ hrs*	23+ hrs*
Car Adapter (Engine On)	90 Watts	6.5–7 hrs	13–14 hrs
Solar (MPPT)	120 Watts**	5–6 hrs***	10–11 hrs***

**\*Warning:** not to charge with engine off as this may discharge the car battery, the Power 550/1100 does not protect the car battery from over-discharge

**\*\*Note:** Use a maximum of 300W of solar panels for the Power 550 or Power 1100. The MPPT charging circuit will limit power to the battery to 120 Watts automatically.

**\*\*\*Note:** Charge times will vary greatly based on the amount of available sunlight, angle of the solar panel, shading on the solar panel, and the outdoor temperature.

# Tips & Tricks

- ① Over time the battery level sensor needs to be calibrated to accurately display battery capacity. Fully charging until the blue LED's are all solid ensures that the battery is 100% full, and calibrates the battery % display.
- ② For long term storage, it is ideal to store the Power 550/1100 at a state of charge of between 50–75%. Also, it is recommended that the unit be charged back to this level once every 6 months to maintain ideal battery life.

# Warranty

## **Scope of one-year limited warranty**

GoSun provides a One-Year Limited Warranty against Manufacturing Defects. If a product contained a Manufacturing Defect when it was purchased from an Authorized Dealer, GoSun, at its sole discretion, will (i) repair, (ii) replace, or (iii) provide a Warranty Credit for the Product on the GoSun online store. The amount of the Warranty Credit shall be equal to the purchase price of the Product paid to the Authorized Dealer. GoSun reserves the right to inspect any Product subject to a warranty claim to determine, at its sole discretion, whether the claimed defect is a Manufacturing defect, whether the claimed defect is a Manufacturing Defect or otherwise.

# Need help?

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