GROWATT VITA 550

GROWATT VITA550 Portable Power Station User Manual

Model: VITA 550 | Brand: GROWATT

1. Introduction

The GROWATT VITA550 is a compact and powerful portable power station designed to provide reliable electricity for various applications, from outdoor adventures to home backup during power outages. Featuring a durable LiFePO4 battery, multiple output ports, and fast charging capabilities, it offers a versatile energy solution.



Figure 1.1: GROWATT VITA550 Portable Power Station and included 200W Solar Panel.

2. Safety Instructions

Please read and understand all safety instructions before operating the VITA550. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from heat sources, direct sunlight, and flammable materials.
- Ensure proper ventilation during use and charging.
- Do not expose the unit to water or excessive humidity.
- Keep out of reach of children and pets.
- Use only original or certified accessories.

3. Package Contents

Verify that all items are included in your package:

- 1 x VITA 550 Portable Power Station
- 1 x 200W Solar Panel
- 1 x AC Charging Cable (1.8m)
- 1 x Solar Panel Charging Cable
- 1 x User Manual and Warranty Card

4. Product Overview

The VITA550 is designed for ease of use and portability. It features a clear display, multiple ports, and a robust build.

4.1. Main Features

- **Compact and Portable:** Weighs only 17.99 lbs with a foldable handle for easy transport.
- **Versatile Outputs:** Equipped with USB-A, USB-C, car outlets, DC5521, wireless charging, and standard AC outlets.
- **Fast Charging:** Recharges from 0-100% in 1.6 hours via wall socket.
- **Long Lifespan:** Utilizes EV-grade LiFePO4 battery cells for over 3000 cycles.
- **Uninterruptible Power Supply (UPS):** Features 20ms switchover capability for critical devices.
- **Built-in LED Light:** Provides ambient and SOS lighting.

4.2. Informative Display



Figure 4.1: The VITA550's display provides real-time information on battery capacity, current input/output, estimated recharge/use time, and system alerts.

4.3. Input and Output Ports

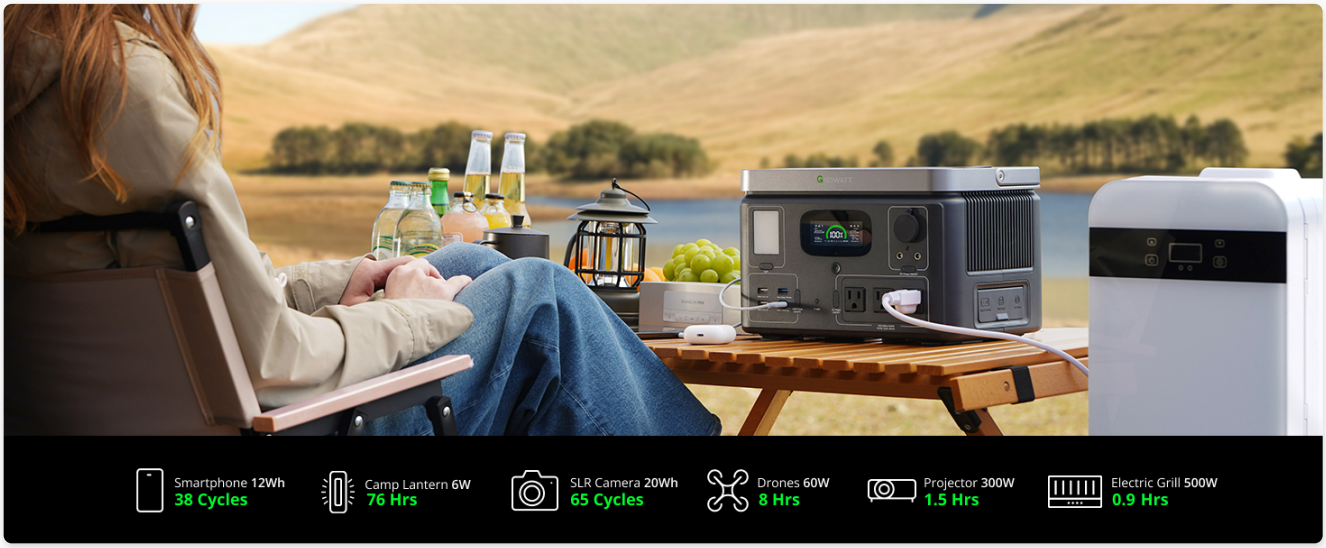


Figure 4.2: The VITA550 offers a comprehensive array of 11 output ports, including AC, DC, USB-A, USB-C, car outlets, and wireless charging.

5. Setup

Before first use, it is recommended to fully charge your VITA550.

5.1. Charging the VITA550

The VITA550 supports multiple charging methods:

- **AC Wall Charging:** Connect the included AC charging cable to the unit's AC input port and then to a standard wall outlet. The VITA550 can charge from 0-100% in approximately 1.6 hours thanks to its bi-directional inverter technology.
- **Solar Charging:** Connect the 200W solar panel (included) to the unit's solar input port using the provided solar charging cable. Optimal charging time is approximately 2.5 hours under ideal sunlight conditions due to 99% MPPT efficiency.
- **Car Charging:** Use a 12V car charger (not included) to charge the unit from your vehicle's cigarette lighter

port.

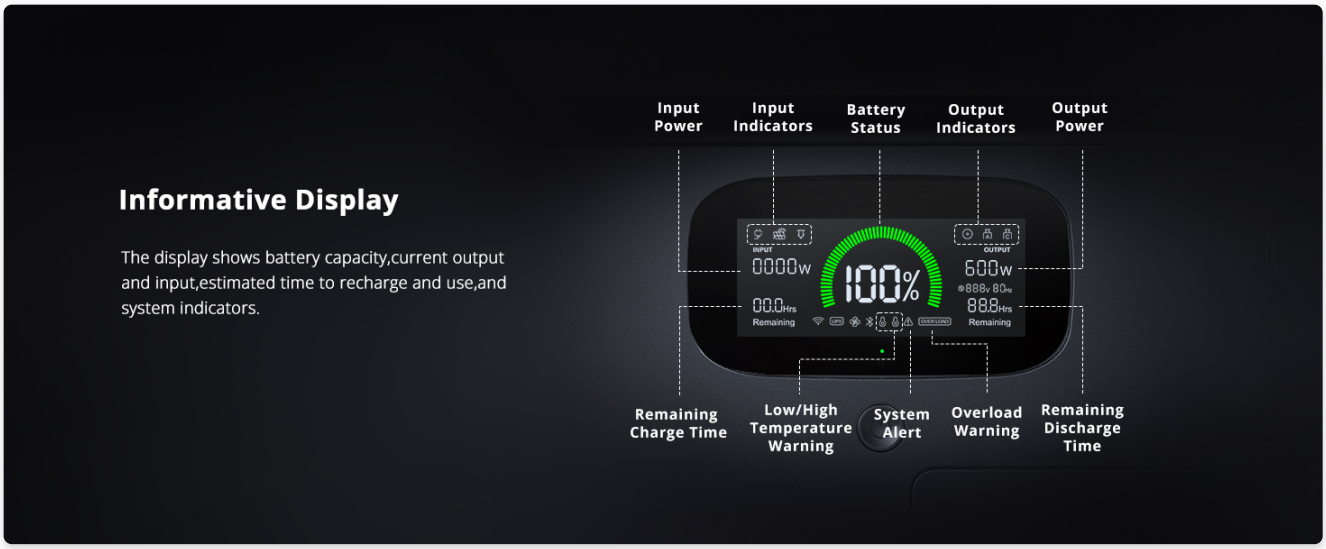


Figure 5.1: The VITA550 features rapid AC charging, reaching full capacity in 1.6 hours.

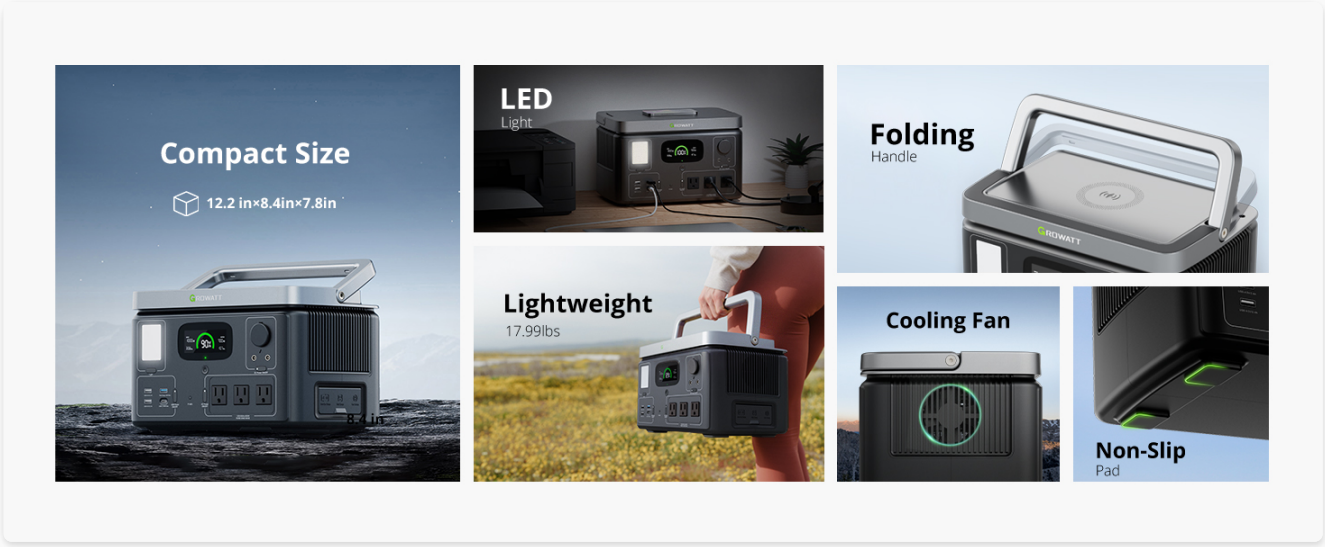


Figure 5.2: Efficient solar charging allows the VITA550 to be fully charged in 2.5 hours.

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Video 5.1: Demonstrates the GROWATT VITA550 Portable Solar Generator in a camping setting, highlighting its solar charging capabilities.

6. Operating the VITA550

The VITA550 is designed for intuitive operation, allowing you to power various devices efficiently.

6.1. Powering Devices

Simply plug your devices into the appropriate AC, DC, or USB ports. Ensure the power station is turned on and the specific output (AC/DC) is activated if necessary.



Figure 6.1: The VITA550 can power up to 11 devices simultaneously.

6.2. Watt+ Feature

The Watt+ feature allows the VITA550 to power devices requiring more than its rated 600W AC output, up to 1050W, by dynamically adjusting the output voltage. This is ideal for resistive loads like kettles or toasters.



Figure 6.2: The Watt+ feature enables the VITA550 to drive a wider range of high-wattage appliances.

6.3. Wireless Charging

Place your Qi-compatible smartphone on the designated wireless charging pad on top of the unit for convenient charging.



Figure 6.3: Enjoy effortless wireless charging for compatible devices.

6.4. Built-in LED Light

The VITA550 includes a powerful LED light with adjustable brightness and an SOS flashing mode for emergencies.

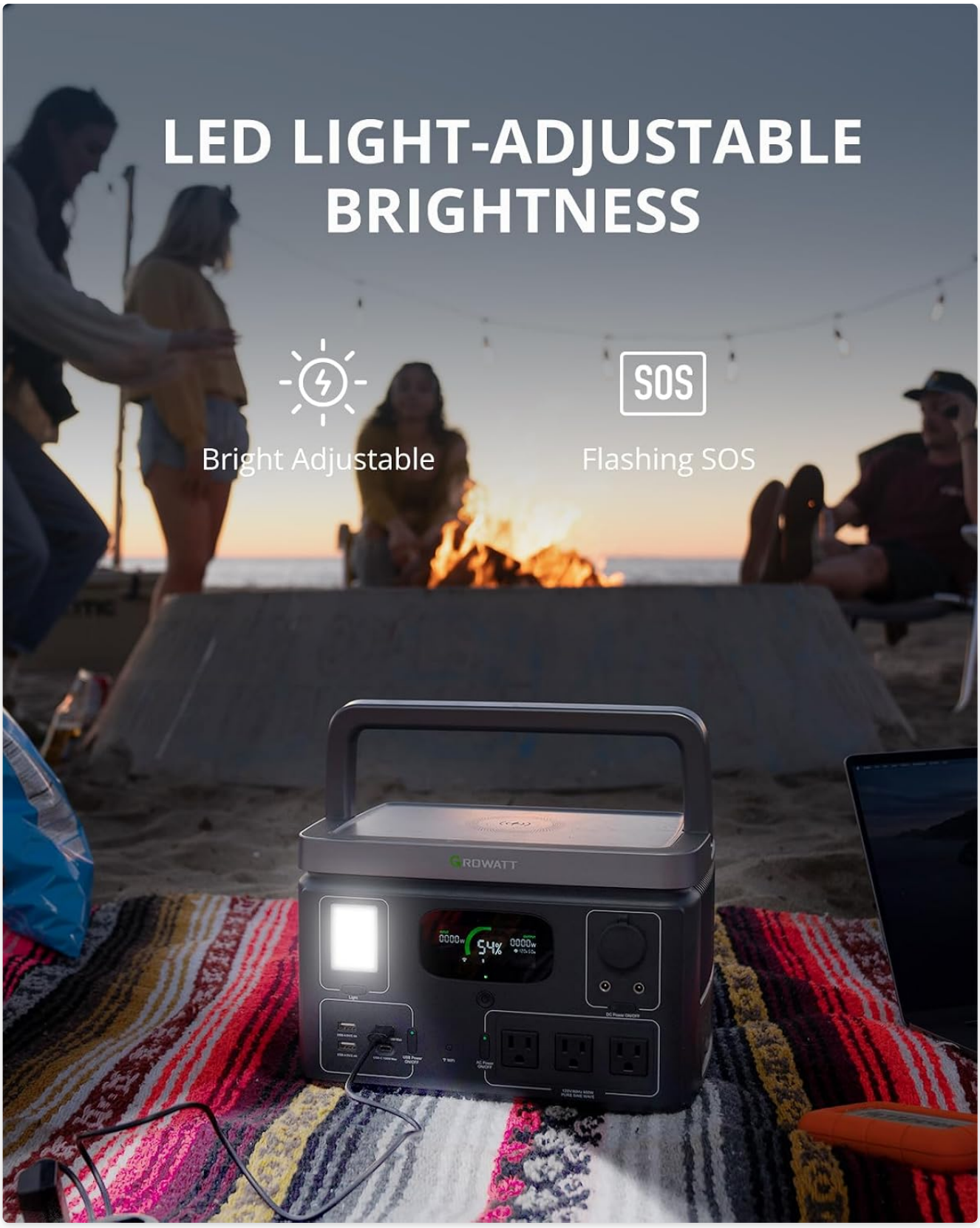


Figure 6.4: The integrated LED light provides versatile illumination for various situations.

6.5. App Control

Monitor and control your VITA550 remotely via the dedicated GROWATT app, available for both iOS and Android devices. The app allows for real-time status display, power on/off control for outlets, and personalized settings.

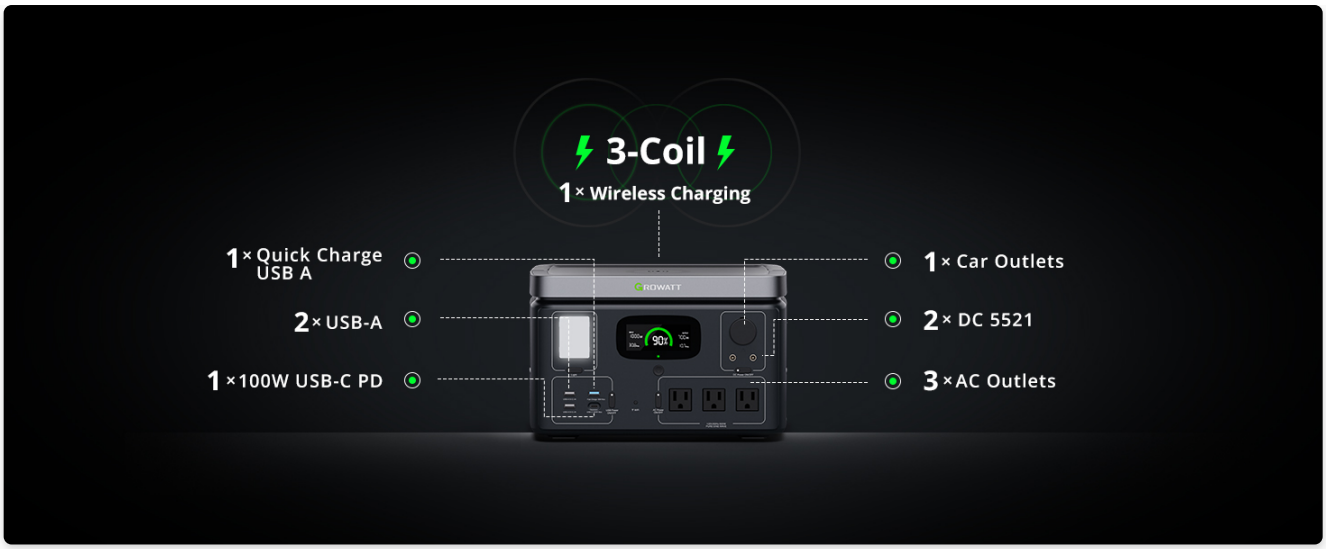


Figure 6.5: Manage your VITA550 conveniently through the GROWATT mobile application.

6.6. Uninterruptible Power Supply (UPS) Functionality

When connected to a wall outlet and devices are plugged into its AC outputs, the VITA550 can act as a Plug&Play UPS. In case of a power outage, it automatically switches to battery power within 20ms, ensuring continuous operation for critical devices like computers or servers.



Figure 6.6: The VITA550 provides reliable backup power with its rapid UPS switchover.

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Video 6.1: An overview of the Growatt VITA 550, showcasing its compact size and various possibilities for use.

7. Maintenance

Proper maintenance ensures the longevity and optimal performance of your VITA550.

7.1. Battery Care

The VITA550 uses EV-grade LiFePO4 battery cells, known for their long lifespan of over 3000 cycles, which translates to 8-10 years of typical use. To maximize battery life:

- Avoid fully discharging the battery frequently.
- Store the unit in a cool, dry place when not in use.
- Recharge the unit to 50-80% every 3-6 months if stored for extended periods.



Figure 7.1: LiFePO4 batteries offer significantly more charge cycles and a longer lifespan compared to NMC batteries.

7.2. Cleaning and Storage

- Wipe the unit with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- Ensure the unit is completely dry before storing.
- Store in a well-ventilated area, away from direct sunlight and extreme temperatures.

8. Troubleshooting

If you encounter issues with your VITA550, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit not turning on	Battery fully discharged; Power button not pressed correctly.	Charge the unit; Press and hold the power button for 3 seconds.
AC output not working	AC output not enabled; Overload protection activated.	Press the AC output button to enable; Reduce load, then restart AC output.
Slow charging via solar panel	Insufficient sunlight; Panel not optimally angled; Dirty panel.	Ensure direct sunlight; Adjust panel angle; Clean panel surface.

Problem	Possible Cause	Solution
Wireless charging not working	Phone not Qi-compatible; Phone not placed correctly; Obstruction.	Check phone compatibility; Reposition phone; Remove case or foreign objects.

If the problem persists, please contact GROWATT customer support.

9. Specifications

Feature	Specification
Brand	GROWATT
Model Name	VITA 550
Battery Type	LiFePO4
Battery Capacity	538Wh
AC Output (Rated)	600W
AC Output (Watt+)	1050W
Max Solar Input	240W
AC Charging Time (0-100%)	1.6 hours
Solar Charging Time (0-100%)	2.5 hours (with 200W solar panel)
Item Weight	17.99 Pounds
Product Dimensions	12.2"L x 8.4"W x 7.8"H
Total Power Outlets	11
Certification	ETL Listed

10. Warranty and Support

The GROWATT VITA550 Portable Power Station comes with a**2-Year Warranty**. For warranty claims, technical support, or any inquiries, please refer to the contact information provided in your Warranty Card included in the package.
You can also visit the official GROWATT store on Amazon for more information and support:GROWATT Amazon Store.
A digital version of this user manual is available for download:Download User Manual (PDF).

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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