GROWATT INFINITY 2000 PRO

GROWATT Portable Power Station User Manual

Model: INFINITY 2000 PRO

1. Introduction

1.1 Product Overview

The GROWATT INFINITY 2000 PRO is a versatile and powerful portable power station designed to provide reliable energy for various applications, including home backup, outdoor camping, RVs, and emergency situations. Equipped with advanced LiFePO4 battery technology, it offers a long lifespan and robust performance.

- **High Capacity:** 2048Wh LiFePO4 battery for extended power supply.
- **Powerful Output:** 2400W AC output (up to 3400W with Watt+) and 15 outlets to power 99% of appliances.
- **Fast Charging:** Fully charges in 1.6 hours via AC input, or 1.5 hours with combined AC and solar input.
- **Long Lifespan:** EV-grade LFP battery cells with a 10-year lifespan and 4000+ cycles.
- **Expandable:** Capacity can be upgraded from 2kWh to 6kWh with additional expansion batteries.
- **Emergency Power Supply (EPS):** Fast 20ms switchover to protect critical devices during power interruptions.
- **Cold-Start Feature:** Ensures optimal battery performance even in extreme cold weather (-22°F).
- **RV-Ready & DIY-Friendly:** Includes TT-30 and Anderson outlets for seamless integration with RVs and custom setups.

1.2 Safety Instructions

Please read and understand all safety instructions before operating the GROWATT INFINITY 2000 PRO. 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 block ventilation openings.
- Do not expose the unit to water or excessive humidity.
- Use only original or certified charging cables and accessories.
- Keep out of reach of children and pets.

- In case of fire, use a dry powder fire extinguisher.

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2. Setup Guide

2.1 Unboxing and Included Components

Carefully remove all components from the packaging. Verify that all items listed below are present:

- GROWATT INFINITY 2000 Pro Portable Power Station
- AC Charging Cable
- Solar Charging Cable
- Car Charging Cable
- DC 5521 Output Cable
- User Manual & Quick Start Guide & Warranty Card

2.2 Initial Charge

Before first use, it is recommended to fully charge the GROWATT INFINITY 2000 PRO. This ensures optimal battery performance and longevity.



Image: Various fast charging methods for the GROWATT INFINITY 2000 PRO, including AC, solar, and combined inputs.

- **AC Charging:** Connect the AC charging cable to the unit's AC input port and a standard wall outlet. The unit can charge fully in approximately 1.6 hours.
- **Solar Charging:** Connect compatible solar panels (up to 1200W) to the unit's solar input port using the provided solar charging cable. Full charge takes approximately 2.3 hours depending on solar intensity.
- **Combined Charging (AC + Solar):** For the fastest charging, combine AC and solar inputs. The unit can reach a full charge in about 1.5 hours.
- **Car Charging:** Use the car charging cable to charge the unit from your vehicle's 12V/24V DC outlet.

Your browser does not support the video tag.

Video: An overview of the GROWATT INFINITY 2000 PRO Portable Power Station, demonstrating its features and capabilities, including charging options.

3. Operation

3.1 Powering On/Off

To power on the unit, press and hold the main power button until the display illuminates. To power off, press and hold the main power button again until the display turns off.

3.2 Connecting Devices

The GROWATT INFINITY 2000 PRO offers a wide array of output ports to connect various devices and appliances.



Image: Front view of the GROWATT INFINITY 2000 PRO, highlighting its multiple AC, USB, DC, TT-30, and Anderson output ports.

- **AC Outlets (x4):** Provides 120V AC power up to 2400W (3400W with Watt+ feature) for standard household appliances.
- **USB-A Fast Charge (x4):** For quick charging of smartphones, tablets, and other USB-powered devices.
- **USB-C (x2):** 100W USB-C ports for charging laptops and other high-power USB-C devices.
- **DC 5521 Ports (x2):** For connecting DC-powered devices.
- **Car Outlet (x1):** Standard 12V car port for automotive accessories.
- **TT-30 (for RV) (x1):** Specifically designed for RV power needs, simplifying connection to your recreational

vehicle.

- **Anderson Port (x1):** A 30A Anderson port for DIY enthusiasts and seamless integration with SUV or van power panels.



Image: The GROWATT INFINITY 2000 PRO being used to power various appliances during outdoor camping and home activities, demonstrating its versatility.

3.3 Expandable Capacity

The INFINITY 2000 PRO's capacity can be expanded from its base 2048Wh up to 6kWh by connecting up to two additional expansion batteries. This is ideal for longer trips, extended home backup, or off-grid living.



Image: Diagram showing the GROWATT INFINITY 2000 PRO with one and two expansion batteries, illustrating its scalable capacity up to 6144Wh.

3.4 Emergency Power Supply (EPS) Feature

The EPS feature provides uninterrupted power to connected devices during grid outages. With a fast 20ms switchover time, your sensitive electronics like computers, medical devices, and fish tanks will continue to run seamlessly.



Image: A person working on a laptop during a power outage, with the GROWATT INFINITY 2000 PRO providing non-stop power, demonstrating its EPS capability.

Your browser does not support the video tag.

Video: A demonstration of the EPS (Emergency Power Supply) feature of the GROWATT INFINITY 2000 PRO, showing how it seamlessly provides power during an outage.

4. Maintenance

4.1 Battery Care

The GROWATT INFINITY 2000 PRO uses EV-grade LiFePO4 battery cells, known for their durability and long cycle life (4000+ cycles). To maximize battery lifespan:



Image: An X-ray view of the GROWATT INFINITY 2000 PRO, showing the internal LiFePO4 battery cells and highlighting their 10-year lifespan and 4000+ cycles.

- Avoid fully discharging the battery regularly.
- Store the unit in a cool, dry place when not in use.
- Recharge the unit every 3-6 months if stored for long periods to maintain battery health.

- The innovative cold-start feature allows operation in temperatures as low as -22℉ (-30℃), ensuring performance in harsh conditions.

4.2 Cleaning

Regularly clean the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure ventilation openings are free from dust and debris.

4.3 Storage

If storing the unit for an extended period, ensure it is charged to approximately 50-80% and stored in a temperature-controlled environment (ideally 0-40°C / 32-104°F). Avoid extreme temperatures and direct sunlight.

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5. Troubleshooting

If you encounter issues with your GROWATT INFINITY 2000 PRO, refer to the common problems and solutions below. For persistent issues, contact customer support.

Problem	Possible Cause	Solution
Unit does not power on.	Battery is completely discharged.	Connect the unit to an AC outlet or solar panel for charging.
No output from AC/DC/USB ports.	Output port not activated; Overload protection triggered.	Ensure the respective output button (AC Power, USB Power, DC Power) is pressed. Reduce load if overloaded.
Slow charging speed.	Low input power (e.g., weak solar input); Quiet Charge mode enabled.	Ensure sufficient input power. Disable Quiet Charge mode via the unit or mobile app for faster charging.
Abnormal temperature warning.	Unit is too hot or too cold.	Move the unit to a well-ventilated area with moderate temperature. Allow it to cool down or warm up.

For more detailed diagnostics and control, utilize the GROWATT mobile application. The app allows remote access, monitoring, control, and settings customizations.

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6. Technical Specifications

Feature	Specification
Brand	GROWATT
Model Name	INFINITY 2000 PRO
Battery Type	LiFePO4 (LFP)
Capacity	2048Wh (Expandable up to 6144Wh)
AC Output Power	2400W (Pure Sine Wave, 3400W with Watt+)

Feature	Specification
Total Power Outlets	15 (4x AC, 4x USB-A, 2x USB-C, 2x DC5521, 1x Car, 1x TT-30, 1x Anderson)
AC Input Charging	1800W Max (Full charge in 1.6 hours)
Solar Input Charging	1200W Max (Full charge in 2.3 hours)
Combined Charging (AC+Solar)	2300W Max (Full charge in 1.5 hours)
Operating Temperature	-22℉ to 104℉ (-30℃ to 40℃) with cold-start feature
Dimensions (L x W x H)	9.72" x 12.2" x 17.99"
Weight	57 pounds

7. Warranty and Support

7.1 Product Warranty

The GROWATT INFINITY 2000 PRO is backed by a 5-year warranty, ensuring peace of mind regarding its quality and reliability. Please refer to the included Warranty Card for detailed terms and conditions.

7.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact GROWATT customer support. You can find contact information on the Warranty Card or by visiting the official GROWATT website.
You can also visit the GROWATT Store on Amazon for more product information and resources.