GROWATT INFINITY 2000

GROWATT INFINITY 2000 Portable Power Station User Manual

Model: INFINITY 2000

1. Introduction

The GROWATT INFINITY 2000 is a versatile and powerful portable power station designed to meet a wide range of energy needs, from home backup during outages to outdoor adventures and RV travel. Equipped with advanced LiFePO4 battery technology, it offers exceptional durability and safety. This manual provides essential information on setting up, operating, maintaining, and troubleshooting your INFINITY 2000 to ensure optimal performance and longevity.



Figure 1: The GROWATT INFINITY 2000 Portable Power Station, showcasing its robust design and multiple output ports.

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Video 1: An overview of the INFINITY 2000 Portable Power Station, highlighting its key features and applications.

2. Safety Information

Always adhere to the following safety guidelines to prevent injury, damage to the unit, or property damage:

- 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 other liquids.
- Use only original or certified accessories.
- Keep out of reach of children and pets.
- In case of fire, use a dry powder fire extinguisher.

3. Setup

3.1 Unboxing and Included Components

Upon receiving your GROWATT INFINITY 2000, carefully unpack all components. The package should include:

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

3.2 Initial Charging

It is recommended to fully charge the INFINITY 2000 before first use. The unit supports multiple fast charging methods:

- **AC Input:** Fully charges in approximately 1.6 hours.
- **Solar Input:** Fully charges in approximately 2.3 hours (with optimal solar conditions).
- **Combined AC + Solar:** Achieves a full charge in about 1.5 hours.

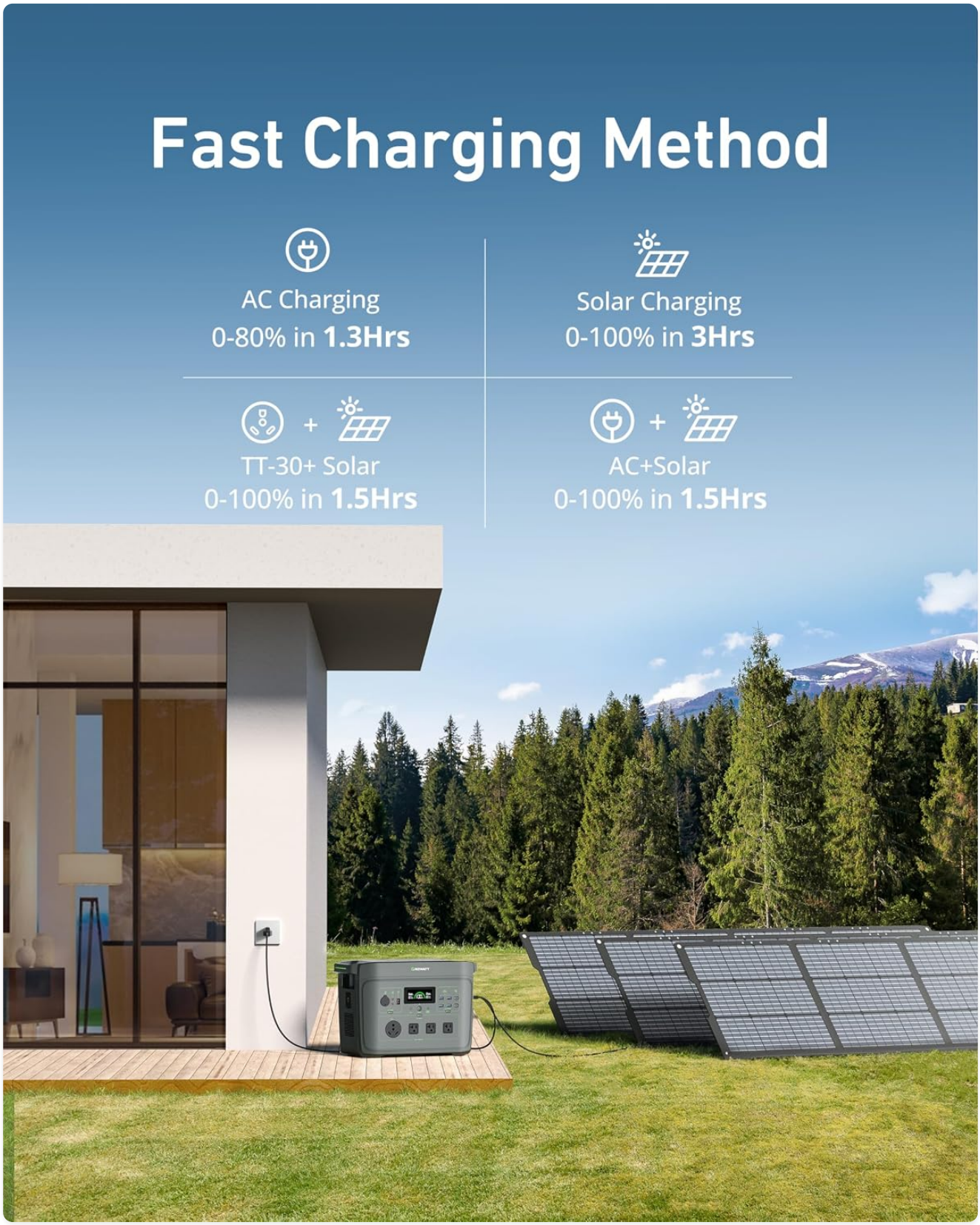


Figure 2: Illustration of various fast charging methods for the power station, including AC, solar, and combined charging.

3.3 Smart App Control Setup

Download the official GROWATT app to monitor and control your INFINITY 2000 remotely. The app allows for personalized settings and remote firmware upgrades.

1. Search for "MyGro" in your device's app store.
2. Install and open the app.
3. Follow the in-app instructions to connect your INFINITY 2000 via Wi-Fi or Bluetooth.

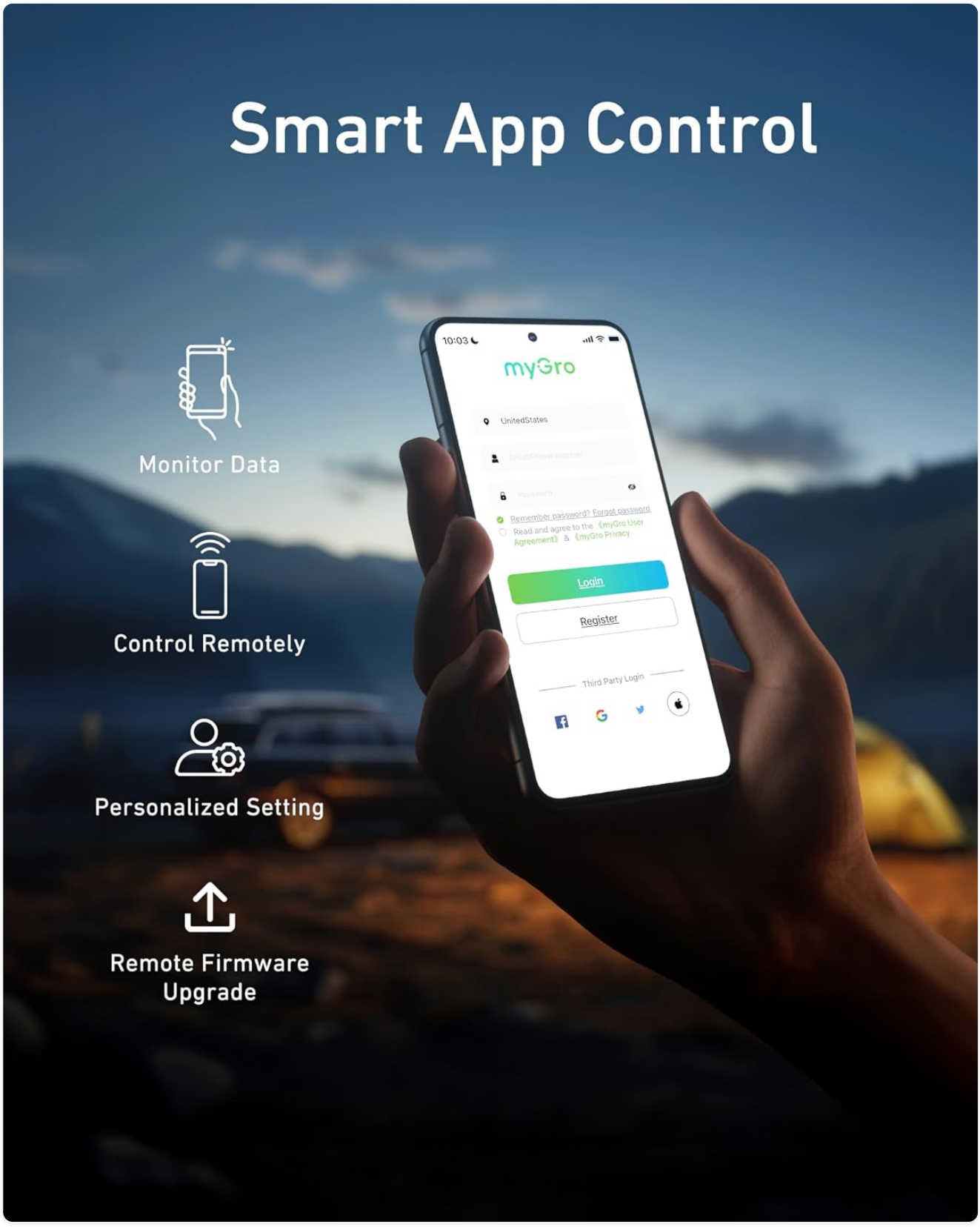


Figure 3: The GROWATT mobile application interface, demonstrating remote monitoring and control capabilities.

3.4 Expansion Batteries

The INFINITY 2000's capacity can be expanded from 2048Wh up to 6kWh by connecting up to two additional expansion batteries. This plug-and-play design allows for versatile energy needs.



Figure 4: The modular design of the INFINITY 2000, showing how additional batteries can be stacked to increase total capacity.

4. Operating Instructions

4.1 Powering On/Off

Press and hold the main power button located on the front panel to turn the unit on or off. The display will illuminate

upon activation.

4.2 Using AC Outlets

The INFINITY 2000 provides 2200W AC output (up to 3400W with Watt+ technology) through 15 versatile outlets, capable of powering 99% of common appliances.

- Connect your devices to the appropriate AC outlets.
- Ensure the total wattage of connected devices does not exceed the unit's output capacity.
- The Watt+ feature allows the unit to temporarily handle higher wattage devices than its rated output.



Figure 5: A detailed view of the INFINITY 2000's front panel, illustrating the variety and placement of its 15 output ports, including AC, USB, and specialized DC ports.

4.3 Using DC Outlets

The unit features various DC outputs for different needs:

- **USB-A & USB-C Ports:** For charging mobile devices, laptops, and other USB-powered electronics.
- **Car Outlet:** Standard 12V car socket for compatible devices.
- **DC 5521 Output:** Two ports for specific DC devices.
- **TT-30 Port:** Specifically designed for RV power, simplifying connection to recreational vehicles.
- **Anderson Port:** A 30A Anderson port for DIY enthusiasts and seamless integration with vehicle power panels.



Figure 6: The INFINITY 2000 providing power to an RV via its dedicated TT-30 port, ideal for mobile living.

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Video 2: Demonstrates the GROWATT INFINITY 2000 in an outdoor setting, showcasing its use with various appliances for camping and RVs.

4.4 Emergency Power Supply (EPS)

The INFINITY 2000 features a fast 20ms EPS switchover, protecting your connected devices from power interruptions. In case of a power outage, the unit automatically switches to battery power, ensuring continuous operation for critical devices like computers or medical equipment.



Figure 7: The INFINITY 2000 providing seamless emergency power during a simulated outage, highlighting its rapid 20ms switchover time.

4.5 Cold-Start Feature

The innovative cold-start feature ensures optimal battery performance even in extreme cold weather conditions, down to -22°F (-30°C).



Figure 8: An internal view of the INFINITY 2000's battery cells, illustrating the cold-start technology that enables operation in sub-zero temperatures.

5. Maintenance

5.1 Battery Lifespan

The INFINITY 2000 is equipped with EV-grade LiFePO4 battery cells, offering exceptional safety and reliability with over 4000 cycles, translating to a 10-year lifespan under normal usage conditions.



Figure 9: Visual representation of the LiFePO4 battery cells within the power station, emphasizing their long lifespan and system protection.

5.2 Storage Recommendations

For optimal battery health and longevity, store the unit in a cool, dry place away from direct sunlight and extreme temperatures. It is recommended to charge the unit to 50-80% before long-term storage and recharge every 3-6 months.

5.3 Cleaning

Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or immerse the unit in water.

6. Troubleshooting

If you encounter issues with your GROWATT INFINITY 2000, please refer to the following common troubleshooting tips:

- **Unit not turning on:** Ensure the battery is charged. If not, connect to a power source.
- **No output from ports:** Check if the specific output port is enabled on the unit or via the app. Verify that the connected device is functioning correctly and its power requirements do not exceed the port's limit.
- **Slow charging:** Ensure you are using the original charging cables. Check the power source for adequate output. For solar charging, ensure panels are in direct sunlight and free from obstructions.
- **Overload protection activated:** Disconnect some devices to reduce the load. The unit will automatically reset once the load is within limits.

For persistent issues, please contact customer support.

7. Specifications

Feature	Specification
Brand	GROWATT
Model Name	INFINITY 2000
Wattage	2200 watts
Fuel Type	electric
Power Source	Battery Powered, Solar Powered
Recommended Uses	Power Station for Indoor and Outdoor Use, 2048Wh Solar Generator for Camping, Quiet Generators for Home Use, 2048Wh Battery Generator, Electric Generator for RV
Item Weight	51 Pounds
Voltage	120 Volts
Output Wattage	2200 Watts
Special Feature	Fast Charging Solar Generator, Remote APP Control, Portable Power Station with EPS, 2048Wh LifePo4 Battery for Camping, 4000+ Cycles for 10 Year Lifespan
Included Components	Solar Charging Cable & Car Charging Cable, User Manual & Quick Start Guide & Warranty Card, INFINITY 2000 Portable Power Station, DC 5521 Output Cable, AC Charging Cable
Color	INFINITY 2000
Engine Type	Solar

Feature	Specification
Ignition System Type	Electric Start
Runtime	1 hour (at max load)
Total Power Outlets	15
Frequency	60 Hz
Product Dimensions	17.99 x 9.72 x 12.2 inches

8. Warranty and Support

8.1 Warranty Information

The GROWATT INFINITY 2000 comes with a 5-year warranty, ensuring peace of mind regarding its quality and performance. Please refer to the included Warranty Card for detailed terms and conditions.

8.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact GROWATT customer support through their official website or the contact information provided on your Warranty Card.

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