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> GRECELL Portable Power Station 2200W and 2x200W Solar Panels User Manual

GRECELL T1 PRO

GRECELL Portable Power Station 2200W and 2x200W Solar Panels User Manual

Model: T1 PRO

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your GRECELL Portable Power Station 2200W and the included 2x200W Solar Panels. Please read this manual thoroughly before using the product to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

2. SAFETY INSTRUCTIONS

Observe the following safety precautions to prevent electric shock, fire, or serious injury:

- Do not disassemble, repair, or modify the unit.
- Do not expose the unit to fire or high temperatures.
- Avoid extreme temperatures, direct sunlight, and humid environments.
- Keep away from children and pets.
- Ensure proper ventilation during use and charging.
- Do not use if the unit or cables are damaged.
- Use only original or certified accessories.
- Do not immerse in water or expose to heavy rain. The solar panels are IP65 water-resistant, protecting against splashing water, but not immersion.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x GRECELL Portable Power Station 2200W
- 2x GRECELL 200W Solar Panels
- 1x AC Charging Cable

- 1x Car Charger Cable
- 1x Anderson to MC4 Cable
- 1x User Manual
- 1x Cable Storage Bag



Image: GRECELL Portable Power Station 2200W, AC charger, car charger cable, Anderson to MC4 cable, user manual, and cable storage bag.

4. PRODUCT OVERVIEW

4.1. Portable Power Station 2200W

The GRECELL 2200W Portable Power Station features a high-capacity 1126Wh LiFePO4 battery, providing 2200W rated power and up to 4800W peak power. It is equipped with multiple output ports for various devices.



Image: The GRECELL Portable Power Station 2200W shown with two connected solar panels.

Output Ports:

- 4x AC Output (2200W, 110V~50/60Hz)
- 2x USB-C PD 100W
- 2x USB-C QC3.0 18W
- 2x USB-A QC3.0 18W

- 2x DC Output 13.3V/8A
- 1x Cigar Lighter 13.3V/10A

POWER 13 DEVICES AT THE SAME TIME



USB-C*2
PD100W



USB-C*2
QC3.0 18W



USB-A*2
QC3.0 18W



DC Output*2
13.3V/8A



Cigar Lighter
13.3V/10A



AC Output*4
2200W 110V~50/60Hz



Image: The GRECELL Portable Power Station 2200W displaying its various output ports, including AC, USB-C, USB-A, DC, and a cigar lighter port, capable of powering up to 13 devices simultaneously.

4.2. 200W Solar Panels

The included 200W monocrystalline solar panels feature a high conversion efficiency of up to 23.5%. They are designed to be flexible, durable, and weather-resistant (IP65 rated for water splashing).

HIGH EFFICIENT MONOCRYSTALLINE SOLAR CELLS



Cell Efficiency UP TO

23.5%



Open Circuit Voltage

24V

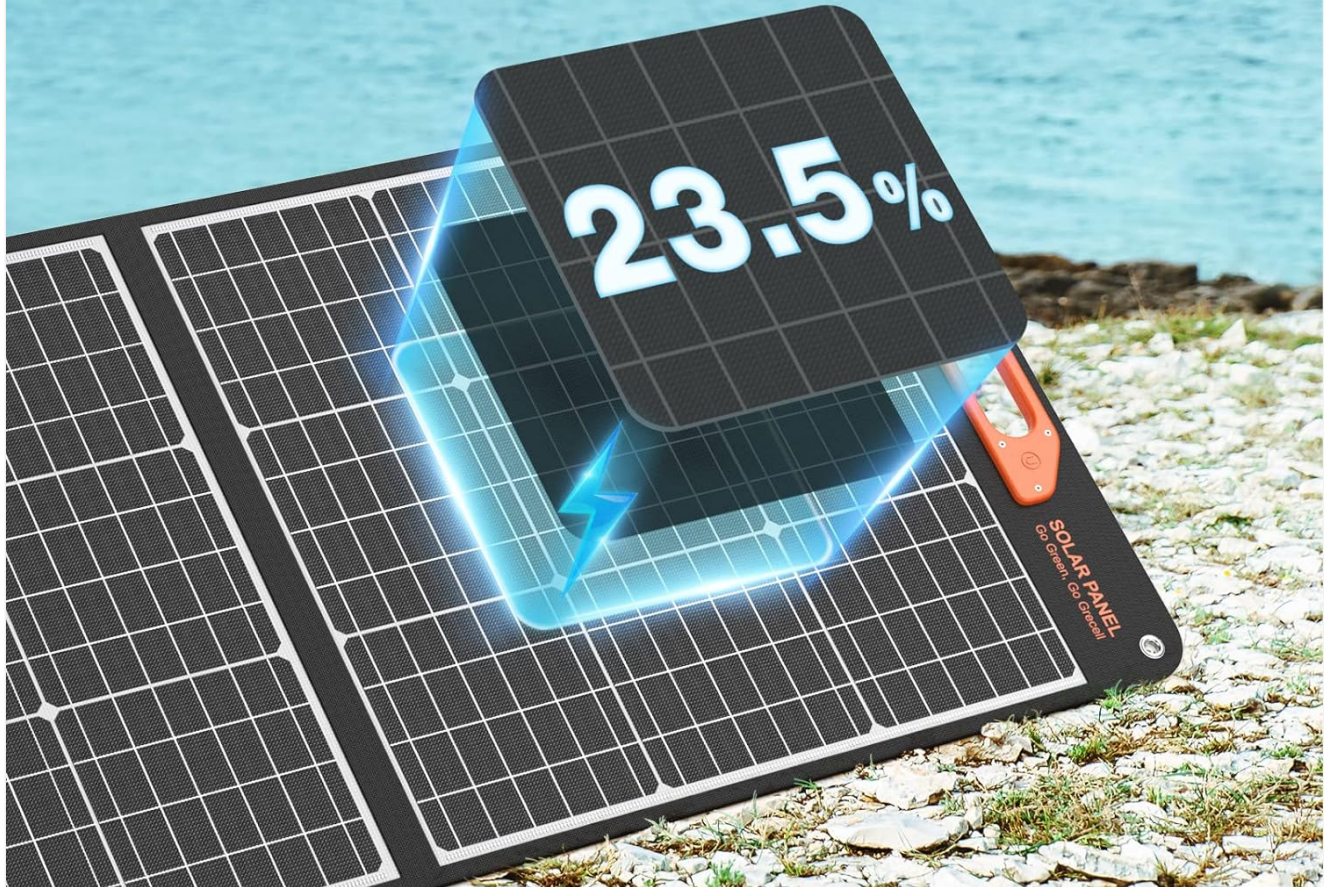


Image: A close-up view of a GRECELL solar panel, emphasizing its high cell efficiency of 23.5% and 24V open circuit voltage.



Image: A GRECELL solar panel being bent to illustrate its flexible and bendable design.

5. SETUP

5.1. Unpacking and Inspection

Carefully remove all components from the packaging. Inspect the power station and solar panels for any visible

damage. If any damage is found, contact customer support immediately.

5.2. Initial Charge

Before first use, fully charge the power station using the AC charging cable. This ensures the battery is calibrated and ready for optimal performance.

5.3. Connecting Solar Panels

To connect the solar panels:

1. Unfold the solar panels and position them in direct sunlight for maximum exposure.
2. Connect the MC4 connectors from the solar panels to the Anderson to MC4 cable.
3. Plug the Anderson connector into the input port of the GRECELL Portable Power Station.
4. The display on the power station will indicate solar input and charging status.

GREEN POWER SOURCE

Max **600W** solar input



Image: The GRECELL Portable Power Station connected to two solar panels, illustrating solar charging in an outdoor setting.

6. OPERATING INSTRUCTIONS

6.1. Charging the Power Station

Your GRECELL Power Station can be charged via AC wall outlet, solar panels, or a car charger.

AC Wall Charging:

Connect the AC charging cable to the power station's AC input port and then to a standard wall outlet. The

bidirectional inverter technology allows for a full charge in approximately 1.25 hours using a 1200W AC input.

AC SUPER FAST CHARGING



600W AC
Charging Input **2h**



1200W AC
Charging Input **1.25h**



Image: The GRECELL Portable Power Station connected to a wall outlet for AC super fast charging, indicating a 1200W input for a 1.25-hour charge time.

Solar Charging:

As described in Section 5.3, connect the solar panels to the power station. The unit supports up to 800W solar input. The MPPT controller optimizes charging efficiency, and the auto-optimization function ensures reconnection after charging interruptions.



Image: The GRECELL Portable Power Station and solar panels set up for solar charging by a scenic lake, capable of full charge in 2-3 hours with max 600W solar input.

Car Charging:

Use the provided car charger cable to charge the power station from your vehicle's 12V cigarette lighter port.

6.2. Using the Power Station

To use the output ports, press the corresponding power button (AC, DC, USB) on the power station. The LCD display will show real-time input/output wattage and remaining battery capacity.

POWER ALL YOUR NEEDS


Phone (10Wh)
100 Time


Mini fridge (60W)
18 Hrs


Electric Blanket (120W)
10 Hrs


Slow cooker (200W)
6 Hrs


Blender (500W)
3 Hrs



2200W
OUTPUT

4800W
PEAK

1126WH
CAPACITY

Image: Individuals utilizing the GRECELL Portable Power Station to power various devices like a laptop, blender, and drone during an outdoor activity, highlighting its 2200W output, 4800W peak, and 1126Wh capacity.

Emergency Power Supply (EPS) Mode:

The power station features an EPS mode for continuous power supply with a 20ms switchover time, ideal for sensitive electronics during power outages.

LED Light & SOS Mode:

The integrated LED light offers three constant brightness levels and an SOS flashing mode for emergencies. Activate by pressing the dedicated light button.



Image: A man working at a desk with the GRECELL Portable Power Station providing illumination via its LED light, demonstrating its constant (3 levels) and SOS modes.

7. MAINTENANCE

7.1. Battery Care

The LiFePO4 battery is designed for over 3500 charge cycles. For optimal lifespan, avoid fully discharging the battery frequently. Recharge the unit at least every 3-6 months if not in regular use.

7.2. Cleaning

Wipe the power station and solar panels with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure all ports are free of dust and debris.

7.3. Storage

Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the battery is charged to approximately 50-80% before long-term storage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit not charging	Charging cable not properly connected; power source issue; solar panels not in direct sunlight.	Check all cable connections; verify power source functionality; reposition solar panels for optimal sun exposure.
No output from ports	Output port not activated; device power consumption exceeds unit capacity; low battery.	Press the corresponding output button; check device wattage; recharge the power station.
Overload warning	Connected device(s) exceed the power station's output limit.	Disconnect high-power devices. Reduce the total load to below 2200W (4800W peak).
Solar charging intermittent	Partial shading on solar panels; dirty panels; cloudy weather.	Ensure panels are fully exposed to sunlight; clean panel surface; charging efficiency will be lower in cloudy conditions.

9. SPECIFICATIONS

Feature	Specification
Model Name	T1 PRO
Battery Type	LiFePO4
Capacity	1126Wh
Rated Power	2200W
Peak Power	4800W
AC Input	1200W (Fast Charging)
Solar Input	Max 800W
AC Output	4x 110V~50/60Hz
USB-C Output	2x PD 100W, 2x QC3.0 18W
USB-A Output	2x QC3.0 18W
DC Output	2x 13.3V/8A
Cigar Lighter Output	1x 13.3V/10A
Product Dimensions	15.6"L x 6.13"W x 9.19"H
Solar Panel Type	Monocrystalline
Solar Panel Efficiency	Up to 23.5%
Solar Panel Water Resistance	IP65 (splash-proof)

10. WARRANTY AND SUPPORT

The GRECELL Portable Power Station 2200W and 2x200W Solar Panels come with a 2-year warranty. For technical support, warranty claims, or any questions regarding your product, please contact GRECELL customer service through the retailer where you purchased the product or visit the official GRECELL website for contact information.

