

GRECELL T1 PRO

GRECELL T1 PRO 2200W Portable Power Station User Manual

Model: T1 PRO | Brand: GRECELL

1. INTRODUCTION

The GRECELL T1 PRO 2200W Portable Power Station is a versatile and robust power solution designed for various applications, from home backup to outdoor adventures and RV use. It features a substantial 1126Wh capacity, a high rated power of 2200W (with a peak of 4800W), and utilizes a durable LiFePO4 battery pack. This manual provides essential information for the safe and efficient operation and maintenance of your power station.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the GRECELL T1 PRO Power Station. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- Do not disassemble, repair, or modify the unit.
- Do not expose the unit to fire or high temperatures.
- Do not use or store the unit in direct sunlight or in hot environments.
- Keep the unit away from water, moisture, and corrosive substances.
- Ensure proper ventilation during use to prevent overheating.
- Keep out of reach of children and pets.
- Use only original or certified accessories.
- In case of fire, use a dry powder fire extinguisher.

3. PACKAGE CONTENTS

Verify that all items are included in your package:

- 1x GRECELL T1 PRO 2200W Power Station
- 1x AC Charger
- 1x Car Charger
- 1x Anderson Cable
- 1x Cable Storage Bag
- 1x User Manual



Image: GRECELL T1 PRO Power Station with included accessories: AC charger, car charger, Anderson cable, cable storage bag, and user manual.

4. PRODUCT OVERVIEW

The GRECELL T1 PRO is designed for intuitive operation with clearly labeled ports and controls.



Image: Front view of the GRECELL T1 PRO Power Station, highlighting the central display, AC outputs, DC inputs, and various USB ports.

4.1 Key Features

- **High Capacity:** 1126Wh LiFePO4 battery.
- **High Power Output:** 2200W rated, 4800W peak.
- **Multiple Output Ports:** 13 ports including 4x AC, 2x USB-C PD100W, 2x USB-C QC3.0 18W, 2x USB-A QC3.0 18W, 2x DC, and 1x Car Lighter.
- **Fast Charging:** 1.25 hours via 1200W AC input.
- **Advanced BMS:** Built-in Battery Management System for protection and longevity.
- **Portable Design:** Compact size with integrated handles for easy transport.

4.2 Display Indicators

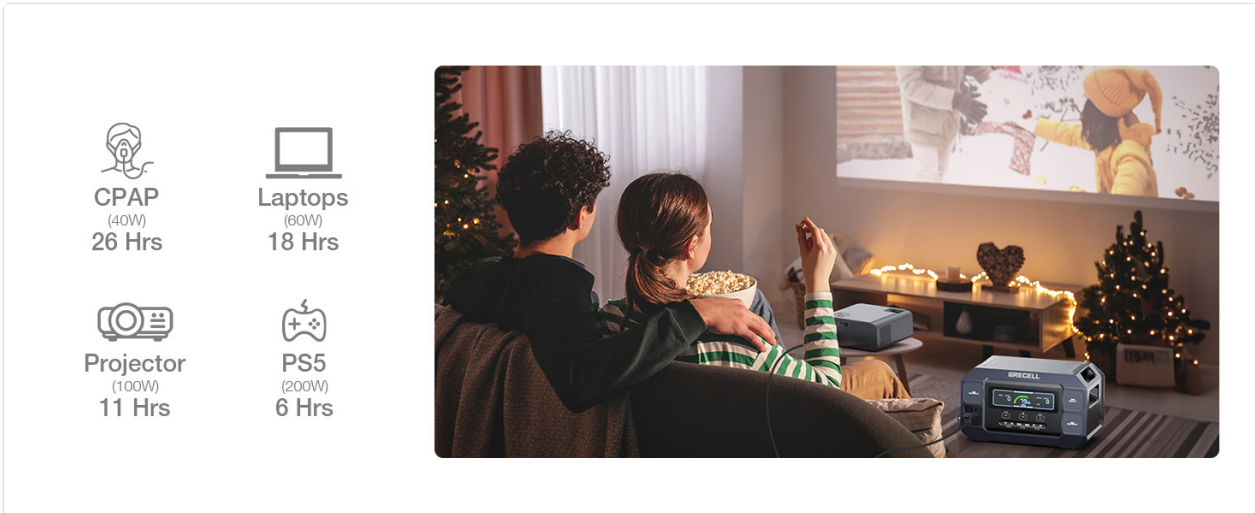


Image: Detailed view of the power station's display panel, showing input/output wattage, battery level, charging status, and various warning indicators.

- **Input Watts:** Current power input.
- **Output Watts:** Current power output.
- **Battery Level:** Percentage of remaining battery.
- **Time:** Estimated remaining runtime or charging time.
- **Warning Indicators:** Low/High temperature, overvoltage, overcurrent, etc.

5. SETUP

5.1 Initial Charging

Before first use, fully charge your GRECELL T1 PRO Power Station. This ensures optimal battery performance and calibration.

1. Connect the AC charger to the AC input port on the power station.
2. Plug the AC charger into a wall outlet.
3. The display will show charging status. The unit is fully charged when the battery level reaches 100%.

AC SUPER FAST CHARGING



600W AC
Charging Input **2h**



1200W AC
Charging Input **1.25h**



Image: The power station connected to an AC wall outlet, demonstrating the fast charging capability.

5.2 Connecting Solar Panels (Optional)

For solar charging, connect compatible solar panels (sold separately) to the DC input port using the provided Anderson cable.

GREEN POWER SOURCE

Max **600W** solar input



Image: The GRECELL T1 PRO Power Station connected to two portable solar panels in an outdoor setting, illustrating solar charging.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

Long press the main power button for 3 seconds to turn the unit on or off.



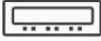



6.2 Using AC Outputs


Press the AC button to activate the AC outlets. Plug your AC devices into the 4x 2200W AC output ports. Ensure the total wattage does not exceed 2200W (4800W peak).

6.3 Using DC/USB Outputs

Press the DC button to activate the DC and USB ports. Connect your devices to the appropriate ports (USB-C PD100W, USB-C QC3.0 18W, USB-A QC3.0 18W, DC Output, Car Lighter).

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



The image shows a GRECELL power station on a wooden table outdoors. The power station is connected to a drone, a camera, a laptop, and a smartphone. The power station's display shows 78% battery level and 1000mAh output. The background features a scenic view of a rocky coastline with the sea.

Image: The power station connected to and powering various electronic devices like a drone, camera, laptop, and smartphone, demonstrating its multi-device capability.

6.4 Charging Methods

The GRECELL T1 PRO supports four charging methods:

- **AC Charging:** Max 1200W, 1.25-2 hours.

- **Solar Charging:** Max 600W, 2-3 hours (with 2x200W solar panels).
- **Car Charging:** Via 12V/24V car charger.
- **AC + Solar Charging:** Max 1200W, 1.5-2 hours.

4 WAYS TO RECHARGE



Image: Visual representation of the four charging methods: AC, Solar, Car, and combined AC+Solar charging.

6.5 Usage Scenarios

The power station can power a wide range of devices for extended periods:

- CPAP (40W): 26 hours
- Laptops (60W): 18 hours

- Projector (100W): 11 hours
- PS5 (200W): 6 hours
- Fan (200W): 6 hours
- Blender (500W): 2.5 hours
- Air Conditioner (750W): 1.4 hours
- Electric Grill (1000W): 1.1 hours
- Kettle (500W): 2.5 hours
- Refrigerator (120W): 8 hours
- Camera (16Wh): 65 times
- Drone (60Wh): 16 times



Image: The power station providing power to a CPAP machine in a bedroom setting.

Image: The power station supplying power to a projector and game console for outdoor entertainment.

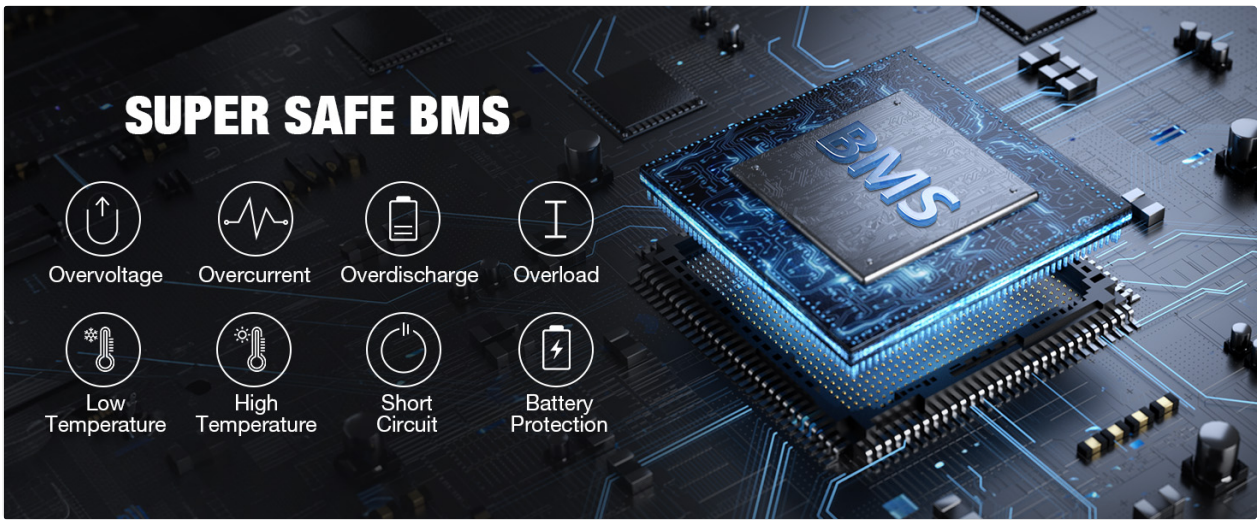


Image: The power station powering a fan and blender inside an RV, showcasing its utility for mobile living.



Image: The power station powering a kettle and refrigerator at a campsite, highlighting its outdoor use.

7. BATTERY MANAGEMENT SYSTEM (BMS)

The GRECELL T1 PRO is equipped with an advanced Battery Management System (BMS) to ensure the safety and longevity of its LiFePO4 battery.

BMS INTELLIGENT BATTERY MANAGEMENT



22000MAH
Large Capacity

LiFePO4
Battery

2200W
Continuous Power

3500+
Charge Cycles

Image: An exploded view of the power station, revealing the internal LiFePO4 battery cells and the integrated BMS for intelligent battery management.

7.1 BMS Protections

- Overvoltage Protection
- Overcurrent Protection
- Overdischarge Protection
- Overload Protection
- Low Temperature Protection
- High Temperature Protection

- Short Circuit Protection
- Battery Cell Protection



Image: A graphic illustrating the comprehensive safety features provided by the Super Safe BMS, including protections against overvoltage, overcurrent, overdischarge, overload, temperature extremes, and short circuits.

8. MAINTENANCE

To ensure the longevity and optimal performance of your power station, follow these maintenance guidelines:

- Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- Recharge the unit every 3-6 months, even if not in use, to maintain battery health.
- Clean the exterior with a dry, soft cloth. Do not use harsh chemicals or abrasives.
- Avoid dropping or subjecting the unit to strong impacts.

9. TROUBLESHOOTING

If you encounter issues with your GRECELL T1 PRO, refer to the following common problems and solutions:

- **Unit not turning on:** Ensure the battery is charged. Long press the power button for 3 seconds.
- **No output from AC/DC ports:** Ensure the respective AC/DC output buttons are pressed and their indicators are lit. Check if the device connected is within the power station's wattage limits.
- **Slow charging:** Verify that the charging cable is securely connected. For solar charging, ensure panels are in direct sunlight and properly angled. Check for any error codes on the display.
- **Overload warning:** Disconnect devices exceeding the power station's output limit. The unit may automatically shut down to protect itself.

For persistent issues, contact GRECELL customer support.

10. SPECIFICATIONS

Feature	Detail
Brand	GRECELL

Feature	Detail
Model Number	T1 PRO
Wattage	2200 KW (Running)
Starting Wattage	4800 Watts (Peak)
Fuel Type	Electric
Power Source	AC/DC
Recommended Uses	Camping, Home Backup, Outdoor, RV
Battery Type	Lithium Iron Phosphate (LiFePO4)
Battery Capacity	1126Wh
Charge Cycles	3500+
Total Power Outlets	13
AC Output	4x 2200W
USB-C Output	2x PD100W, 2x QC3.0 18W
USB-A Output	2x QC3.0 18W
DC Output	2x DC Output, 1x Cigar Lighter
AC Charging Time	1.25 hours (1200W)
Solar Charging Input	Max 600W
Product Dimensions	15.6 x 6.13 x 9.19 inches
Item Weight	37.4 pounds
Special Feature	Portable, Short Circuit Protection

11. WARRANTY & SUPPORT

GRECELL products typically come with a manufacturer's warranty. Please refer to the warranty card included in your package or visit the official GRECELL website for detailed warranty information and terms. For technical support, troubleshooting assistance, or any inquiries, please contact GRECELL customer service.

12. OFFICIAL PRODUCT VIDEOS

12.1 GRECELL Power Station 2200W LiFePO4 1.25Hrs Fast Charging

Your browser does not support the video tag.

Video: This video provides a detailed overview of the GRECELL Power Station 2200W, highlighting its

LiFePO4 battery and 1.25-hour fast charging capability. It demonstrates the product's features and ease of use.

12.2 GRECELL Solar Generator 2200W - 1.25Hrs Fast Charging

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Video: A concise video showcasing the GRECELL Solar Generator 2200W, emphasizing its rapid 1.25-hour fast charging feature and solar input capabilities.