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› GRECELL Portable Power Station T300 User Manual

## GRECELL T300

# GRECELL Portable Power Station T300 User Manual

Model: T300 | Brand: GRECELL

## 1. INTRODUCTION AND OVERVIEW

The GRECELL Portable Power Station T300 is a versatile and reliable power solution designed for various applications, including outdoor adventures, camping, travel, and as a backup power source during home blackouts. With a substantial 230.88Wh capacity and a 330W (600W peak) pure sine wave AC output, it can power a wide range of devices.

This power station features an upgraded Battery Management System (BMS) that provides built-in overload, overcharge, and short-circuit protection, ensuring safe and efficient operation. Dual built-in silent cooling fans help maintain optimal temperature during use.



Figure 1: GRECELL Portable Power Station T300 - Front View

The image displays the GRECELL Portable Power Station T300, a compact black and orange unit with a top handle, featuring a digital display and multiple output ports on the front panel.

# SAFE BMS BATTERY SYSTEM



Figure 2: Safe BMS Battery System Diagram

This diagram illustrates the internal components and safety features of the power station's Battery Management System (BMS), highlighting protections against over-charge, over-discharge, high-temperature, over-current, and short-circuit.

## 2. SETUP

Upon receiving your GRECELL Portable Power Station T300, it is recommended to fully charge the unit before its first use to optimize battery performance and lifespan. The package includes a user manual, an AC 100-240V wall plug power adapter, an MC4-7909 connector cable, and a 12V car charger cable.

### Initial Charging:

1. Connect the AC wall plug power adapter to the power station's input port (12-26V).
2. Plug the adapter into a standard wall outlet.
3. The display will indicate charging status. Allow the unit to charge until it reaches 100%.

## 3. OPERATING INSTRUCTIONS

### Control Panel Overview:

- **Power Button:** Press and hold to turn the unit ON/OFF.
- **Light Button:** Activates the built-in flashlight.
- **DC Output Button:** Activates/deactivates the DC output ports.
- **USB Output Button:** Activates/deactivates the USB output ports.
- **AC Output Button:** Activates/deactivates the AC output port.
- **LCD Display:** Shows battery level, input/output wattage, and active ports.

### Output Ports:

- **1x AC Outlet:** 110V Pure Sine Wave, 330W (600W Peak) for laptops, small appliances.
- **1x USB-C PD 60W:** For fast charging compatible smartphones, tablets, and laptops.
- **1x USB-C PD 18W:** Additional USB-C charging.
- **2x USB-A QC 15W:** Quick Charge 3.0 for various USB devices.
- **1x Car Port (12V/10A):** For 12V car appliances.



Figure 3: Powering Multiple Devices

This image highlights the various output ports available on the GRECELL T300, demonstrating its capability to power up to 6 devices simultaneously, including USB-C, USB-A, car outlet, and AC outlet.

# 60W PD USB-C FAST CHARGING

**4X** faster charging

**60W<sup>PD</sup>** fast charging 100%

**15W** Common charging 25%



Figure 4: 60W PD USB-C Fast Charging

The image illustrates the fast-charging capability of the 60W USB-C PD port, showing it can charge devices significantly faster than standard 15W charging.

## Recharging the Power Station:

The GRECELL T300 offers three convenient ways to recharge:

- **AC Outlet:** Use the included AC adapter for a full charge in approximately 6-7 hours.
- **Solar Panel:** Connect a compatible solar panel (not included) using the MC4-7909 connector cable. The built-in MPPT controller optimizes solar energy conversion, allowing a full charge in 5-9 hours depending on sunlight conditions.
- **Car Outlet:** Use the included 12V car charger cable to recharge from your vehicle's cigarette lighter port, typically taking 7-9 hours.

# 3 WAYS FOR YOU TO RECHARGE



**5-9** hours

100W Solar Charger

**6-7** hours

Wall Outlet



**7-9** hours

Car Outlet



Figure 5: Three Ways to Recharge

This graphic visually explains the three primary methods for recharging the power station: via a 100W solar charger (5-9 hours), a wall outlet (6-7 hours), or a car outlet (7-9 hours).

## 4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your power station.

### Battery Care:

- Avoid completely draining the battery frequently. It's best to recharge before the battery level drops below 20%.
- For long-term storage, charge the unit to about 50-80% and recharge every 3-6 months to prevent battery degradation.

### Cleaning and Storage:

- Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure all ports are free of dust and debris.
- Store the power station in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.

## 5. TROUBLESHOOTING

If you encounter issues with your GRECELL Portable Power Station T300, refer to the following common problems and solutions:

- **Unit Not Turning On:** Ensure the power button is pressed and held for a few seconds. Check if the battery is completely depleted and needs recharging.
- **No Output from Ports:** Verify that the specific output button (DC, USB, AC) for the desired port is activated. Check the device's power requirements to ensure it does not exceed the power station's output limits.
- **Slow Charging:** Ensure you are using the original charging cables and adapters. For solar charging, ensure the panel is in direct sunlight and free from obstructions.
- **Overheating:** The unit has built-in cooling fans. If it feels excessively hot, ensure the ventilation vents are not blocked. Reduce the load if multiple high-power devices are connected.
- **Display Not Working:** Try restarting the unit by holding the power button. If the issue persists, contact customer support.

For more detailed troubleshooting or persistent issues, please refer to the comprehensive user manual provided with your product or visit the official GRECELL website for support.

## 6. SPECIFICATIONS

Feature	Specification
Brand	GRECELL
Model Name	T300
Capacity	230.88Wh
AC Output	330W (600W Peak), 110V Pure Sine Wave, 60 Hz
USB-C PD Output	1x 60W, 1x 18W
USB-A QC Output	2x 15W (Quick Charge 3.0)
DC Output (Car Port)	12V/10A
Input Voltage	12-26V
Charging Methods	AC Outlet, Solar Panel (MPPT), Car Outlet
Item Weight	7.3 Pounds
Product Dimensions	9.61"L x 6.72"W x 6.97"H
Battery Type	Lithium Ion

Feature	Specification
Included Components	User Manual, AC 100-240V wall plug power adapter, MC4-7909 connector cable, 12V Car Charger cable, 230.88Wh Portable Power Station

## 7. WARRANTY AND SUPPORT

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For detailed warranty information and customer support, please refer to the user manual included in your product packaging. You may also find additional resources and contact information on the official GRECELL website.

GRECELL is committed to providing reliable power solutions and excellent customer service. If you have any questions or require assistance with your Portable Power Station T300, do not hesitate to reach out to their support team.