

USER MANUAL

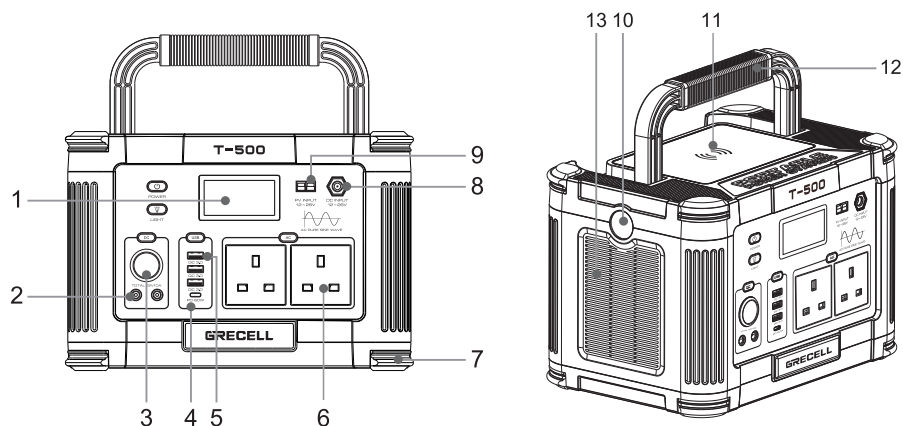
Thank you for purchasing GRECELL portable power station.

For the best performance and safety purposes, please read this manual carefully before use. Please keep this manual for further reference.

⚠ CHARGE FIRST!

Before using your new Power Station T-500 or after storing it for more than 3 months, plug it into a suitable power outlet until it is fully charged. Then you can start your exciting journey with it. Highly recommend to charge T-500 when battery indicate less than 20%.

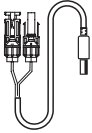
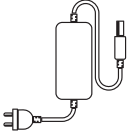
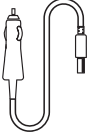


■ Product Overview



- | | |
|-------------------------|--------------------------------------|
| 1. LCD Screen Display | 8. DC Input |
| 2. DC 55*25 Output | 9. Photovoltaic Input |
| 3. Car Outlet Output | 10. SOS Mode & LED Light |
| 4. USB-C Output | 11. Wireless Charger |
| 5. USB-A Output | 12. Folding Handle |
| 6. AC Output | 13. Air Intake Vent with Cooling Fan |
| 7. Anti-collision Strip | |

Note: No user-serviceable parts inside.
Recommended to fully charge the T-500 before use.

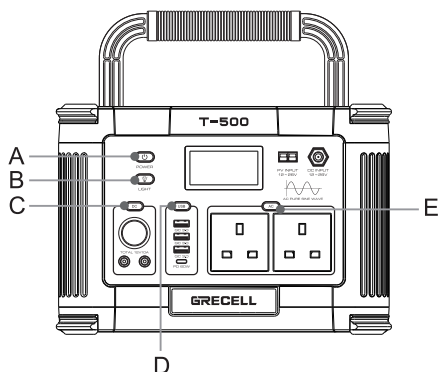
■ T-500 Accessory List

 <p>MC4-7909 connector cable</p>	 <p>AC 100-240V wall plug power adapter</p>	 <p>12V Car Charger cable</p>	 <p>User Manual</p>	 <p>Cable Storage Bag</p>
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Recommend to use 60/80/100/120W Solar panel (not included).

■ Button Feature

- A: Power ON/OFF Button
- B: SOS Mode & LED Light Button
- C: DC Output Power ON/OFF Button
- D: USB Output Power ON/OFF Button
- E: AC Output Power ON/OFF Button



● **Button A: T-500 POWER ON/OFF**

Button A is the main switch. Press button A to turn on or off.

● **Button B: SOS MODE& LED LIGHT**

Function is available no matter the button “POWER ON/OFF” is activated or not as the following steps:

Firstly, press button B to turn on the LED light into the LED light mode.

Secondly, double click it to turn on the SOS mode.

Thirdly, press button B back to LED light mode, then press it again, the light will be turn off.

● **Button C: DC OUTPUT ON/OFF**

Make sure the button “POWER ON/OFF” is activated before pressing button C to turn on; Press button C to shut down the output(s) when not in use.

● **Button D: USB OUTPUT ON/OFF**

Make sure the button “POWER ON/OFF” is activated before pressing button D to turn on; Press button D to shut down the output(s) when not in use.

The USB-C cable of different devices need different endorsements of corresponding protocols, if the USB-C port doesn't work, try to use the AC adapter to charge .

● **Button E: AC OUTPUT POWER ON/OFF**

Make sure the button “POWER ON/OFF” is activated before pressing button E to turn on; Press button E to shut down the output(s) when not in use.

● **WIRELESS CHARGER**

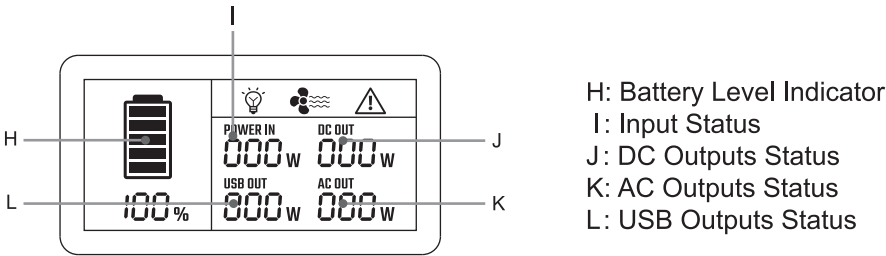
Press the “POWER ON/OFF” button first, then press the “USB” button to turn on the wireless charger. Press the “POWER ON/OFF” button to shut down the output(s) when not in use.

● **COOLING FAN**

T-500 utilizes an internal cooling fan to ensure the product is operating within the appropriate temperature range. T-500, when it experiences a higher output load, will automatically turn on the fan during discharge or recharging, the fan may operate intermittently to keep internal temperature within operating range.

The fan will likely start when the AC circuit is activated to ensure proper operation.

























■ **LCD Features**



Note:

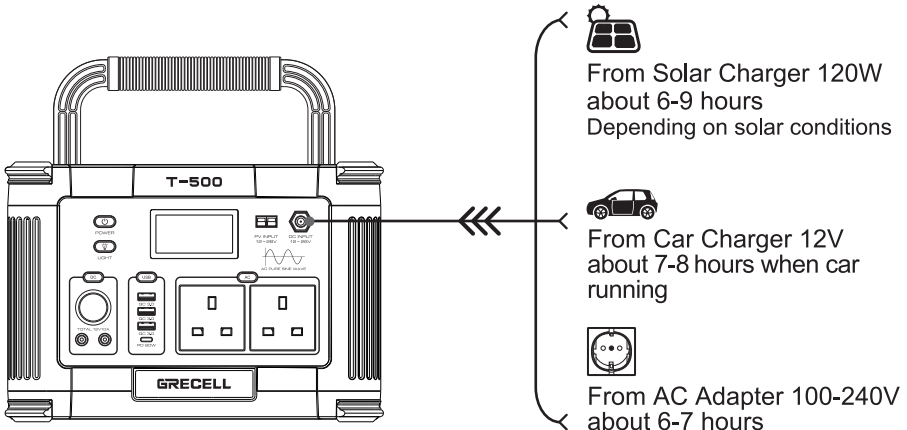
- The LCD Screen will enter Sleep Mode after 20s of inactivity, and will Wake up when inputting a charging cord or when any button is pressed.
- When the output power of the device is less than 5W, the device will go into hibernation after more than 8 hours, and the input can be "awakened" when the input is charged or any button is pressed. When not in use, press the switch button to turn off the output.

■ General Specifications

General Specs		
	Rated Capacity	519.48Wh
	Net Weight	about 6.1kg
	Weight (including accessories)	about 7.1kg
	Product Size	294 x 202 x 202mm
Input		
	Recharging Input Voltage	12-26V
	Recharging Input Power	105W(Max)
	AC/DC Adapter	AC 100-240V(50Hz/60Hz), DC 25V, 4A
	Solar Charge Input	12-26V, Max.105W
	Car Charger	DC 12V, Max.105W
Output		
	AC Output Voltage	230V~50Hz
	Rated Output Power	500W
	Output Waveform	Pure Sine Wave
	Overload Protection Power	550±40W
	Car Outlet Output	12V  10A
	DC 55*2.1 Output x 2	12V  5A (each)
		Total 10A
	Wireless Charger	10W
	USB Output	QC3.0/18W
	Type-C Output	PD 60W
Battery		
	Standard Capacity of Batteries	22.2V, 23.4 Ah 519.48Wh
	Operating Temp	14 to 104°F (-10 to 40°C)
	Charging Temp	32 to 104°F (0 to 40°C)
	Storage Temp	-4 to 113°F (-20 to 45°C)

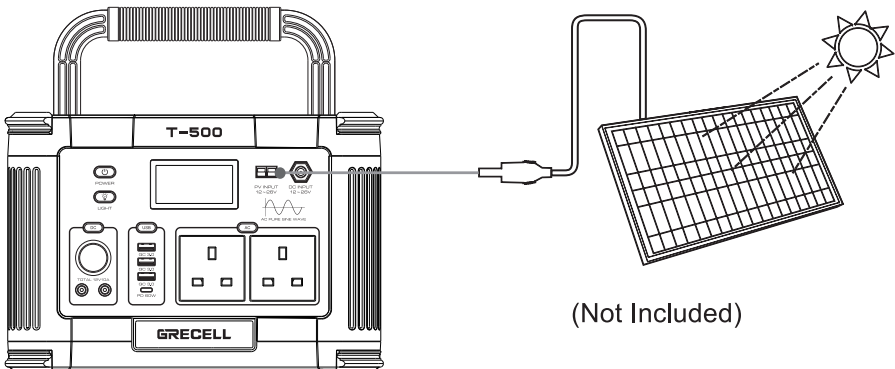
■ How to Charge

Recommend to disconnect the T-500 when fully charged.



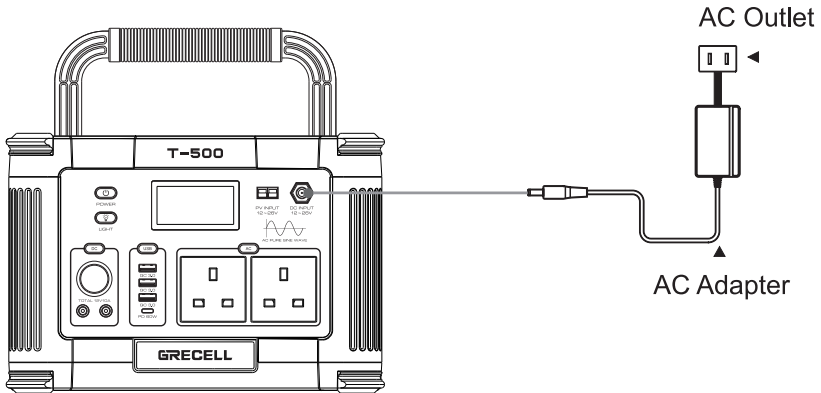
■ Solar Panel Charging

1. Do Not charge the unit via solar panel that operate voltage exceeds DC 12-26V.
2. Place the solar panel direct exposure to the sunlight as much as possible.
3. Support 60W/80W/100W/120W max solar panels (Not included), the charging time depends on the solar light intensity.



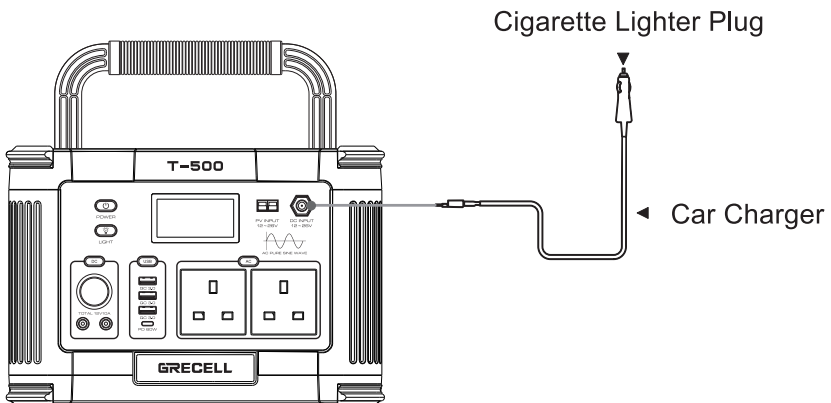
■ AC Adapter Charging

Please use the AC adapter that we provided to charge this unit, and it will take about 6-7 hours to fully charge the power station.



■ 12V Car Charger Charging










Use the car charge cable we provided to charge this unit. The time to takes 7-8 hours. When the LCD display shows the battery power to 100%, it indicates that this unit is fully charged.



■ Power/Charge Devices with T-500

1. Select the type of outlet required by pressing the Output ON/OFF Button. The output port will NOT function until the appropriate button is pressed. When activated, the indicator on the button shows green, indicating that the outputs are active, and the LCD display will turn on and provide details on the charging output. The LCD Screen will automatically shut down when no outputs are activated.
2. PASS-THROUGH CHARGING. The advanced battery management system of the T-500 allows it to charge a connected device via AC output, DC output & USB output while charging the T-500.
3. OVERLOAD CONDITION. If an overload condition occurs on the output port, T-500 will automatically turn off AC Output power. The blue indicator light of LCD Screen still illuminated. DC output status is still the same status as usual. In this case, please check the input cable. The port will be efficient when the input charge cable meets the specification outlined in the GENERAL SPECIFICATIONS section. Only charge T-500 with provided AC wall power adapter.

■ What it Powers

 Laptops (41.4Wh) Around 10 Recharges	 32" TV (60W) Around 7 Hours	 CPAP Without Heated Humidifier (15W) 29 Hours	 Gopro (5.9Wh) Around 74 Recharges	 Floodlight (4W) Around 110 Hours
 Mini Fridge (40W) Around 11 Hours	 Drone (89.2Wh) Around 4.9 Recharges	 Smartphone (10Wh) Around 44 Recharges	 Switch (16Wh) Around 27 Recharges	+MORE

■ Important Safety Instructions



Product Use:

- DO NOT use any inappropriate power cords.
- DO NOT place the unit close to or in a fire or expose it to heat. Keep out of direct sunlight.
- DO NOT charge, use or store the unit in a bathroom or in an area exposed to rain or moisture. Use and store the unit only in a clean and dry environment.
- Do not drop the unit into the water. If the battery in the unit comes into contact with water, it may cause chemical decomposition of the battery, which may cause the battery to catch fire or explode.
- Never use or charge swollen, leaky, or damaged batteries. If your battery is abnormal, contact us to get support.
- Never install or remove a battery from the unit when it is turned on.
- DO NOT use the batteries in strong electrostatic or electromagnetic environments. Otherwise, the battery control board may malfunction and cause a serious accident.
- Never disassemble or pierce the product in any way. Otherwise, it may leak, catch on fire, or explode.
- DO NOT use the product if it was involved in a crash or a heavy bump.
- If the product falls into water during use, take it out immediately and put it in a safe and open area. Keep a safe distance from it until it is completely dry. Never use it again and dispose it properly as described in the Battery Disposal section below. If the product catches fire, it is recommended to use fire extinguishing equipment in the following order: water or water mist, sand, fire blanket, dry powder, carbon dioxide fire extinguisher.
- Do Not allow pins, wires or other metal pieces to insert into the device case, outlets or controls. Metal pieces may short circuit the unit.
- Avoid collision. DO NOT place heavy objects on the unit.
- If there is dirt on any plug or outlet surface, use a dry cloth to clean it. Otherwise, it will cause abrasion and result in energy loss or inability to charge.
- DO NOT put the machine in a microwave oven or in a pressurized container.
- Transportation: T-500 complies with all legal requirements for transport of dangerous goods. The capacity of the lithium battery pack exceeds 100Wh. Based on international standards, if T-500 is transported by airplane, it must be transported in accordance with IATA standard packaging. IATA instructions and labeling requirements and the relevant declarations must be completed.

Product Recharging:

- When you first plug in a power source, a solar panel or a wall charger, the T-500 may take one minute to detect and adjust its charge circuitry before it starts drawing power from the source.
- DO NOT charge the unit via power supply systems that operate outside of AC100-240V.
- DO NOT charge the unit via solar panel that operate voltage outside of DC12-26V.
- Always use approved attachment charging cables. We takes no responsibility for any damage caused by using other brand charging cable.
- When charging, please place the product on the ground with no flammable or combustible materials around. To prevent accidents, never leave the machine unattended during charging.
- DO NOT charge a product immediately after a long heavy load, because the product's temperature may be too high. DO NOT charge a product until it cools down to room temperature.
- Only charge, use the unit within an ambient temperature of 0 to 40°C (32~104°F). The ideal charging temperature range is 71°F to 82°F (22°C to 28°C).

Product Storage and Transportation:

- Keep the product out of the reach of children. If any children accidentally swallow parts, please go to a doctor immediately.
- If a low-battery warning appears, charge the battery before store.
- Store the product in dry environments. DO NOT place the product where it may contact with water.
- Make sure no small metal objects can fall on or around the product while in storage.
- Never transport a product with a battery power level higher than 30%.
- Never store the product in environments below -15°C or above 45°C.
- Battery life may be reduced if not used for a long time. It is recommended to fully charge and discharge T-500 at least once every 3 months to maintain the health of the battery pack.

Cleaning

- Be sure that T-500 is disconnected from all input power sources and output devices. Use a clean, dry, soft-lint-free cloth to clean.
- Remove any debris, dirt, or other blockages on both side vents. When cleaning debris from the side vents, do not allow the debris, dirt, or other blockages to enter the body of T-500
- DO NOT use abrasive cleaners or solvents.

- DO NOT use compressed air to clean side cooling vents, as this will force foreign particles into the internal circuitry.
- To avoid the risk of electrical shock, DO NOT use metal objects to clean ports.

■ Trouble Shooting

T-500 Will Not Charge Or Operate connected devices:

- (1) Check whether the output buttons are activated;
- (2) Check whether the total output power exceeds the rated output power;
- (3) Check the battery power indicator to confirm whether the power supply is sufficient;
- (4) If the device cannot be discharged after it is discharged for longtime, please wait for several hours and try again, it may enter the over-temperature protection.

T-500 Will Not Charge:

- (1) Confirm that the wall plug power adapter's cord is inserted fully into the DC Input.
- (2) Confirm that the AC wall plug power adapter is the charger provided with T-500. If the input does not comply with the requirements located in the general specifications section, the low power range 0% to 10% may be displayed on the LCD.
- (3) If the device cannot be charged immediately after it is discharged, please wait for several hours and try again, it may enter the over-temperature protection.

■ Note

A photovoltaic panel as input for charging the internal battery shall be provided with an inverter and/or a charge controller in accordance with UL 1741 or UL 62109-1; The external power supply shall be a power source in accordance with the Standard UL 60950-1 and CAN/CSA C22.2 No. 60950-1, or UL 1310 and No. 1, CAN/CSA C22.2 No. 223, or No.1, CAN/CSA C22.2 No. 223; A vehicle adapter that complies with the enclosure and input contacts requirements in the Standard for Vehicle Battery Adapters, UL 2089, and Power Supplies, CAN/CSA C22.2 No. 107.1. The connector plug shall incorporate a fuse or other protective device having a current rating not greater than 15 A.

INSTRUCTIONS PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS

1. **WARNING** – When using this product, basic precautions should always be followed, including the following:

- a) Read all the instructions before using the product.
- b) To reduce the risk of injury, close supervision is necessary when the product

is used near children.

c) Do not put fingers or hands into the product.

d) Use of an attachment not recommended or sold by power pack manufacturer may result in a risk of fire, electric shock, or injury to persons.

e) To reduce the risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the power pack.

f) Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.

g) Do not operate the power pack with a damaged cord or plug, or a damaged output cable.

h) Do not disassemble the power pack, take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.

i) To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed servicing.

j) **WARNING – RISK OF EXPLOSIVE GASES.**

1) To reduce the risk of battery explosion, follow these instructions and those published by the battery manufacturer and manufacturer of any equipment you intend to use in the vicinity of the battery. Review cautionary marking on these products and on engines.

k) **PERSONAL PRECAUTIONS**

1) Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.

2) Wear complete eye protection and clothing protection. Avoid touching eyes while working near the battery.

3) If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters the eye, immediately flood the eye with running cold water for at least 10 minutes and get medical attention immediately.

4) **NEVER** smoke or allow a spark or flame in the vicinity of the battery or engine.

5) Be extra cautious to reduce the risk of dropping a metal tool onto the battery. It might spark or short-circuit battery or other electrical parts that may cause an explosion.

l) When charging the internal battery, work in a well-ventilated area and do not restrict ventilation in any way.

m) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

n) Do not expose a power pack to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause an explosion. The temperature of 130°C can be replaced by the temperature of 265°F.

o) Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained. **SAVE THESE INSTRUCTIONS.**

■ Disposal/Recycle



Do not place equipment and its accessories in the trash. Items must be properly disposed of in accordance with local regulations.



See www.epa.gov for additional information.

■ Warranty

All GRECELL products come with a full 2-year limited warranty from the date of purchase (accessories excluded). It will be out of guarantee if damaged due to incorrect use or force majeure.

If you have any questions, please feel free to contact us:
E-mail: support@grecell.com