English

## ■Product Overview

1. LCD Screen Display
2. DC Input/Car Charging Input
3. PV Input
4. DC Output
5. Car Outlet Output
6. USB-A Output
7. USB-C Output
8. 500W Rated AC Outputs
9. Anti-rebound Strip
10. Folding Handle
11. Air Intake Vent with Cooling Fan
12. SOS Mode
13. Wireless Charger
14. LED Light

**Note: No user-serviceable parts inside.**
**Recommended to fully charge the P500 Mini before use.**

## ■P500 Mini Accessory List

**Recommended to use 60/80/100/120W power solar panel (not included).**



## ■Button Feature

- **Button A: P500 Mini POWER ON/OFF**
  Button A is the master switch. Press Button A to activate the button C/D/E. Press Button A to shut down the output(s) that are not in use.
- **Button B: LED LIGHT & BUTTON SOS MODE**
  Function is available no matter the button "POWER ON/OFF" is activated or not as the following steps:
  Firstly, press button B/F to turn on the LED light into the LED light mode; Secondly, click to open the flash mode;
  Thirdly, click to open SOS mode;
  Fourthly, click Button B/F again to turn off the LED.
- **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 OUTPUTS 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 when not in use.
- **WIRELESS CHARGER**
  Press "POWER ON/OFF" button to turn on the wireless charger. Press "POWER ON/OFF" button to shut down the output(s) when not in use.



- **COOLING FAN**
  P500 Mini utilizes an internal cooling fan to ensure the product is operating within the appropriate temperature range. P500 Mini, 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

A. 電源オン/オフボタン
B. LEDライトボタン
C. DC出力オン/オフボタン
D. USB出力オン/オフボタン
E. AC出力オン/オフボタン
F. SOSモード

G. バッテリー残量表示
I. 入力状態
J. LED ボタン
K. 冷却ファンオン/オフ
L. エラーコード
M. DC出力状態
N. AC出力状態
O. USB出力状態



## ■General Specifications

| General Specs | |
|---|---|
| Rated Capacity | 444Wh |
| Net Weight | about 4.5kg |
| Weight (including accessories) | about 5.5kg |
| Product Size | 273 x 171 x 183mm |

| Input | |
|---|---|
| Recharging Input Voltage | 12-24V |
| Recharging Input Power | 80W (Max) |
| Recharging Input Port | DC 10(24V)5(8A)5(6A), DC 24V, 5A |
| Solar Charge Input | 18-23V, Max.80W |
| Car Charger | DC 12V-24V, Max.80W |

| Output | |
|---|---|
| AC Output Voltage | 110V/115V/60Hz |
| Rated Output Power | 500W |
| Output Waveform | Pure Sine Wave |
| Overload Protection Power | 540x30W |
| Car Outlet Output | 12V~16.8V/10A |
| DC 5.5*2.5 Output | 12V~16.8V/10A |
| Wireless Charger | 10W |
| USB Output | QC3.0/18W |
| Type-C Output | PD 20W/PD 60W |

| Battery | | |
|---|---|---|
| Standard Capacity of Batteries | 14.8V, 30Ah, 444Wh | |
| 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 P500 Mini when fully charged.

## ■Solar Panel Charging

1. Do not charge the unit via solar panel that operate voltage exceeds DC 12-24V.
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 are provided to charge this unit, and it will take about 5.7 hours to fully charge the power station.

## ■12V Car Charger Charging

Use the car charger cable are provided to charge this unit. The time to takes 5-7 hours. When the LCD display shows the battery power to 100%, it indicates that this unit is fully charged.

## ■Power/Charge Devices with P500 Mini

1. Select the type of outlet required by connecting 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 output port. Only the LED Lighting Circuit will automatically shut down when no outputs are activated.
2. PASS-THROUGH CHARGING. The advanced battery management system of P500 Mini allows it to charge a connected device via DC output & USB output while charging the P500 Mini.
   **Note:** Do Not connect devices via AC output while charging the P500 Mini.
3. OVERLOAD CONDITION. If an overload condition occurs on the output port, P500 Mini will automatically shut off the 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 disconnect the device causing the overload. Then press the output button to turn the output back on. The output will be efficient when the input charge cable meets the specification defined in the GENERAL SPECIFICATIONS section.
   Only charge P500 Mini with provided AC wall power adapter.

## ■What it Powers

## ■Important Safety Instructions

**Product Use:**

- DO NOT use any inappropriate power cords.
- DO NOT place the power cord near a hot stove 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 sealed, leaky, or damaged batteries. If your battery appears damaged, contact us.
- 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 open 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 place. Wait for the water to drain before it is used again dry. Never use it again and dispose it properly as described in the Battery Disposal section below. Improper use of the product or its accessories may 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: P500 Mini complies with all legal requirements for transport of dangerous goods. The capacity of the lithium battery pack accounts 100Wh. Based on international standards, if P500 Mini 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 unit may initially not respond to charge for a short time. Be patient and allow it starts charging at your own pace.
- DO NOT charge the unit from power supply systems that operate outside of AC/DC/12V.
- DO NOT charge the unit via solar panel that operate voltage outside of DC12-24V.
- Always use approved attachment charging cables. We takes no responsibility for damage caused by unapproved cables or improper use of cables.
- 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 may generate very high heat. DO NOT charge a product until it cools down to room temperature.
- DO NOT charge the product when the ambient temperature of 0 to 40°C (32~104°F). The ideal charging temperature range is 77°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.
- Do not store the product in environments. DO NOT store the product where it may contact with water.
- Make sure there are 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 P500 Mini at least once every 3 months to maintain the health of the battery pack.

## ■Cleaning

- Be sure that P500 Mini 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 sides of the vents. When cleaning debris from the side vents, do not allow the debris, dirt, or other blockages to enter the body of P500 Mini.
- 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

**P500 Mini 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.

**P500 Mini Will Not Charge:**

(1) Confirm that the AC wall/car power adapter's cord is inverted fully into the DC input;
(2) Confirm that the AC wall/ plug power adapter is the charger provided with P500 Mini. If the input does not comply with the requirements specified in the general specifications section, the low power range 0% to 10% may be displayed on the LCD screen;
(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 phthalofluoride panel as input charging for 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 CAN/CSA-C22.2 No. 223, or UL 1012 and CAN/CSA-C22.2 No. 107.1 A vehicle adapter that complies with the endcaps 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.
IMPORTANT SAFETY INSTRUCTIONS TO REDUCE THE 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 into the electrical parts.
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 electrical shock, pull by the plug and cord pull the plug rather than the cord when disconnecting the power pack.
f) Do not use a damaged power pack or one that has been dropped or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
g) Do not place 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 electric shock or fire.
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 equipment in which you intend to use in the vicinity of the battery. Review cautionary marking on these products and equipment.
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 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 equipment.
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.
6) 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. In more severe cases, 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 is the maximum temperature for the battery pack.
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.



## ■FCC Note

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

FCC ID: 2A44J-P500

## ■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 original purchase (unless excluded). It will be out of guarantee if damaged due to incorrect use or force majeure.



日本語

## ■各部の名前

1. 液晶画面表示
2. DC入力/カーチャージャー入力
3. PV入力
4. DC出力
5. シガーソケット出力
6. USB-A出力
7. USB-C出力
8. 500W定格AC出力口
9. 耐ぶつかりストリップ
10. 折りたたみハンドル
11. 冷却ファンを搭載した換気口
12. SOSモード
13. ワイヤレス充電器
14. LEDライト

**☆分解・修理・改造は禁止しています。**
**☆使用前に、ポータル電源を3分充電してください。**

## ■P500 Mini の付属部品

**☆60/80/100/120Wソーラーパネル（含まれていません）の使用をお勧めします。**



## ■ボタンの機能

A. 電源オン/オフボタン
B. LEDライトボタン
C. DC出力オン/オフボタン
D. USB出力オン/オフボタン
E. AC出力オン/オフボタン
F. SOSモード

G. バッテリー残量表示
I. 入力状態
J. LED ボタン
K. 冷却ファンオン/オフ
L. エラーコード
M. DC出力状態
N. AC出力状態
O. USB出力状態

- **ボタンN: P500 Mini 電源オン/オフ**
  ボタンAがマスタースイッチです。ボタンAを押して、ボタンC/D/Eの機能を有効にします。使用しない時は、ボタンAを押してC/D/Eをオフにします。
- **ボタンB: LEDライト & ボタンF: SOSモード**
  ライト照明機能は、電源ボタンが有効になっているかどうかに関係なく使用できます。手順は次のとおりです
  第1段階ボタンを押してLEDモードに切り替えます。
  第2段階ボタンをもう一度押すとフラッシュモードに切り替えます。
  第3段階ボタンをもう一度押すとSOSモードに切り替えます。
  SOSモードの状態でもう一度押すとLEDライトがオフになります。
- **ボタンC: DC出力オン/オフボタン**
  ボタンCを有効にするためにボタンAを有効にしてください。使用しないときは、ボタンCを押してDCをオフにします。
- **ボタンD:USB出力オン/オフボタン**
  ボタンDを押して電源をスイッチオンにし、電源ボタンが有効になっていることを確認してください。使用しないときは、ボタンDを押してDCをオフにします。異なるデバイスのUSB-Cケーブルは、異なるプロトコルに対応する必要があります。USB-Cポートが機能しない場合は、ACアダプターを使用して充電してみてください。
- **ボタンE:AC出力オン/オフボタン**
  ボタンEを押して電源を入れる前に、電源ボタンが有効になっていることを確認してください。使用しない時は、ボタンEを押してACをオフにします。
- **ワイヤレスチャージャー**
  電源ボタンを押してワイヤレス充電器の電源を入れます。使用しないときは、電源ボタンを押しておきますこします。



- **冷却ファン**
  P500 Mini は、内部冷却ファンを搭載し、製品が適切な温度範囲で動作するように設計されています。ファンは、内部温度を動作範囲内に保つために必要に応じ間欠的に作動します。
  通常な動作を確保するために、AC回路がアクティブになると、ファンが動作する可能性があります。

## ■LCD画面表示の説明

H: バッテリー残量表示
I: 入力状態
J: LED ボタン
K: 冷却ファンオン/オフ
L: エラーコード
M: DC出力状態
N: AC出力状態
O: USB出力状態

LCD 液晶画面表示バッテリー残量、入力ポート、AC 出力ポート、DC 出力ポート、USB 出力ポートを表示します。

1. 充電器をDC入力ポートに差し込むと、画面の左側にバッテリー残量とエラーが表示され、画面の下入力ポートが表示されます。
2. DC回路がオンになると、画面のDC オン/オフが表示されます。
3. USB回路がオンになると、画面のUSB オン/オフが表示されます。
4. AC回路がオンになると、画面のAC オン/オフが表示されます。
5. 主制御ICは過度の負荷であることを検出し、すぐに目的を保護し、液晶画面に障害コードを表示します。
   W01: 過熱保護
   W02: 過負荷保護
   W03: 短絡保護
   W04: 過負荷保護
   W05: 低電圧保護



## ■製品仕様

| 仕様 | |
|---|---|
| 定格容量 | 444Wh |
| 重量 | 約 4.5kg |
| 重量（付属品含む） | 約 5.5kg |
| 製品サイズ | 273 x 171 x 183mm |

| 入力 | |
|---|---|
| 入力電圧 | 12-24V |
| 入力ポート | 80W (Max) |
| AC/DCアダプター | AC 100-240V (50Hz/60Hz), DC 24V, 5A |
| ソーラー充電入力 | 18-23V, Max.80W |
| 車載充電器 | DC 12V-24V, Max.80W |

| 出力 | |
|---|---|
| AC出力電圧 | 110V/115V,60Hz |
| 定格出力電力 | 500W |
| 出力波形 | 純正弦波 |
| 過負荷保護電力 | 540x30W |
| シガーソケット出力 | 12V~16.8V/10A |
| DC 5.5*2.5 出力 | 12V~16.8V/10A |
| ワイヤレス充電器 | 15W |
| USB出力 | QC3.0/18W |
| Type-C出力 | PD 20W/PD 60W |

| バッテリー | |
|---|---|
| バッテリーの標準容量 | 14.8V, 30Ah, 444Wh |
| 動作温度 | 14 to 104°F (-10 to 40°C) |
| 充電温度 | 32 to 104°F (0 to 40°C) |
| 保存温度 | -4 to 113°F (-20 to 45°C) |



## ■充電方法

完全に充電した、P500 Mini の充電器を外してください。

## ■ソーラーパネル充電

1. 動作電圧はDC12~24Vを超える場合は、ソーラーパネルで充電しないでください。
2. ソーラーパネルを太陽光に直接照射に配置してください。
3. 最大60W/80W/100W/120Wのソーラーパネル（含まれていません）をサポートします。充電時間は日照の強度によって異なります。

## ■ACアダプター

弊社が提供するACアダプターを使用して製品を充電してください。ポータブル電源を完全に充電するには、約5-7時間かかります。

## ■12Vの車載向けアクセサリーケーブルを充電

弊社が提供する車載充電器で充電してください。完全に充電するには、約5-7時間かかります。LCDディスプレイに100%と表示されたら、充電は完了しています。ポータブル電源が完全に充電されていることを示します。




## ■P500 Miniでデバイスを充電する

1. 出力ポートを有効にするには、適切なボタンを押してください。ポータブル電源を完全に充電するまで、約5-7時間かかります。
2. パススルー充電機能。P500 Mini の内蔵バッテリー管理システムにより、P500 Mini を充電しながら、DC 出力と USB 出力を介して接続されたデバイスを充電できます。注：P500 Mini の充電中は、AC 出力経由でデバイスを接続しないでください。
3. 過負荷状態。出力ポートで過負荷状態が発生した場合、P500 Mini は自動的に AC 出力を遮断します。青色インジケーターライトは、液晶画面は点灯しています。DC 出力の状態は、通常と同じ状態のままです。この場合では、ユーザーは、デバイスを一時的に切断してください。出力を再オンにするボタンを押せばすぐに出力が再開されます。ポートは正常に作動するには、P500 Mini は、付属のACウォールパワーアダプターでのみ充電してください。

## ■安全に関する注意事項

**製品の使用：**

- 誤ったの接続に使用されるコードを使用しないでください。
- 火の近くで使用することや直射日光に直接さらされることを避けてください。
- 浴室や雨にさらされる場所で充電、使用、保管しないでください。
- 水に浸かるようなことがあってはいけません。ユニットの内部が完全に乾いてから、ユニットを使用してください。
- 電池が漏れたり、変色したり、変形したりしている場合、または、ユニットが熱くなっている場合は、使用しないでください。
- 電池を直接の電源に接続しないでください。
- 電池を直接の電源に接続しないでください。
- 電池を直接の電源に接続