

Portable Power Station
PS151032

User Manual

Disclaimer

Before using this product, please read the user manual of this product carefully to ensure correct use after full understanding. Please keep this manual properly after reading it. Incorrect handling of this product may cause serious injury to you or others, or damage to the product and damage to property. Once you use this product, you are deemed to have understood and accepted all the terms and contents of this user manual. Users promise to be responsible for their actions and all the consequences arising therefrom. Our company will not bear all losses caused by users' failure to use products according to the User Manual.

According to laws and regulations, the Company has the right of final interpretation of this user manual and all materials related to this product. Please visit the official DEENO website for the latest product information if the material is updated, the version is changed or the service is terminated without prior notice.

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Safety fingerCite

Please follow the following instructions to ensure safe use:

1. Do not put your finger into the bottom of the handle when the handle is pulled up to avoid injury.
2. It is strictly forbidden to keep this product close to heat source, such as fire source or heating furnace.
3. It is strictly forbidden to let this product contact with any liquid. Do not immerse this product in water or wet it. Never use this product in rain or humid environment.
4. It is forbidden to use this product in strong static electricity or strong magnetic field environment.
5. It is forbidden to disassemble or puncture this product with sharp objects in any way.
6. It is forbidden to use wires or other metal objects to cause short circuit of this product.
7. Do not use unofficially provided chargers or accessories. If you need to replace it, please inquire about the relevant purchase information through DEENO's official sales channel.
8. When using this product, please strictly follow the use environment temperature in this user manual.
9. Do not move this product during charging or use, which may lead to poor contact of input/output interface.
10. It is forbidden to pile other heavy objects on this product.
11. It is forbidden to block the fan forcibly during use, block the inlet and outlet of the fan, or leave the product in an unventilated or dusty space.
12. Please avoid impact, fall and violent vibration. In case of severe external force impact, please turn off the power supply immediately and stop using it. Please fix it properly during transportation to avoid vibration and impact.
13. In case of fire, dry powder and carbon dioxide fire extinguisher should be used for this product, and water should not be used to extinguish the fire.
14. If there is dirt on the interface of this product, please wipe it clean with a dry cloth.
15. Please place this product carefully to prevent damage caused by dumping. If the product is dumped and seriously damaged, please shut down immediately, place the battery in an open area, away from combustibles and people, and scrap it according to local laws and regulations.
16. Keep this product out of reach of children and pets.
17. This product contains batteries, which are dangerous chemicals. It is strictly forbidden to dispose of them in ordinary garbage bins. For details, please follow the local laws and regulations on battery recycling and disposal.

Parameter specification

Battery specification

Capacity	1036Wh (28.8 V 36Ah)
Battery type	LiFePO4 (lithium iron phosphate)
Cycle life	The remaining capacity after 3500 times is $\geq 80\%$

Enter specifications

Adapter input	24V 200W Max
Car charge input	12V 8A/24V 8A 196W Max
Solar energy input	12-32V 8A 200W Max
Adapter charging time	5-6 hours (0-100%)
Vehicle charging time	12V 10-12 hrs/24V 5-6 hrs (0-100%)
Solar charging time	6-10 hours (0-100%)

* The above data are from DEENO Laboratory and are for reference only. Please note that the charging time will vary due to factors such as use environment and test method.

Output specification

AC output x 3 120V ~ 50Hz/60Hz continuous 1500W (peak 3000W) pure sine wave
USB-A Fast Charge x 3 Outputs 5V 3A, 9V 2A, 12V 1.5 A 18W Max each
USB-C Output x 2 Outputs 5V/9V/12V/15V 3A, 20V 5A 100W Max each
Car Charge Output x 1 12V 10A 120W Max
DC5.5*2. 5 Output x 1 24V 5A 120W Max
DC5.5*2. 1 Output x 1 12V 5A 120W Max
LED Illumination 12W (Low-Medium-High-SOS)

Operating temperature

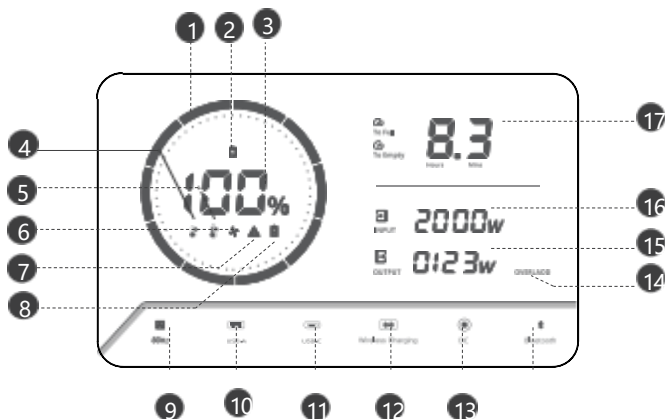
Optimum operating/storage ambient temperature	20 °C ~ 30 °C (68 °C ~ 86 °C)
Discharge ambient temperature	-20 °C ~ 45 °C (-4 °C ~ 113 °C)
Charging ambient temperature	0 °C ~ 45 °C (32 °C ~ 113 °C)
Storage ambient temperature	-20 °C ~ 45 °C (-4 °C ~ 113 °C)

* Whether this product can be charged or discharged depends on the actual temperature of the battery pack rather than the ambient temperature.

Other specifications

Net weight	14.8 KG (32.6 lbs)
Dimensions	L393*W227*H239mm
Certification standard	UN 38.3, PSE, CE, ROHS, REACH, FCC
Packaging content	Product body, adapter, MC4-DC7.9*0. 9 charging line, car charging head-DC7.9*0. 9 charging line, instruction manual (including warranty card), accessory bag

2. Display icon description



1. Battery charge indication: When charging, the icon rotates clockwise.
2. Charging status indication: When charging status, the icon is always on.
3. Percentage of battery power: Percentage of current remaining power.
4. Low temperature alarm: When the battery temperature is lower than 0 °C (32 °C) when charging or lower than -20 °C (-4 °C) when discharging, the product is prohibited from charging/discharging, and this icon is always on. Please put the product in an environment above this temperature for a period of time, recharge/start up and discharge, and the product will resume working.
5. High temperature alarm: When the battery temperature is higher than 50 °C (122 °C) when charging/higher than 70 °C (158 °C) when discharging, the product is prohibited from charging/discharging, and the fan is forced to turn on. This icon is always on. After the battery cools, the fan will be turned off, so it needs to be recharged/turned on before using this product.
6. Fan state: When the working power reaches 300W or the internal temperature of the product reaches the set value (battery 45 °C, components 70 °C), the cooling fan starts automatically.
7. Fault alarm: When a fault occurs, this icon is always on, and the fault port indication flashes.
8. Battery pack alarm: When the battery charge is less than 5%, the icon always lights up.
9. AC Output: The AC port has been opened and the current AC frequency is displayed.
10. USB-A Output: The USB-A port is open.
11. USB-C Output: The USB-C port is open.
12. Wireless charging output: The wireless charging port is controlled by the DC button. When the DC button is turned on, when the mobile phone with wireless charging function is placed in the top wireless charging indication area for charging, the icon is always on; After removing the phone, the icon disappears.

13. DC output: Cigarette lighter port, DC5.5*2. 5 and DC5.5*2. 1 ports have been opened, and wireless charging port is in standby state.
14. Overload alarm: When the output power exceeds 1800W, the icon is always on.
15. Output power: Displays the current discharge power of this product in watts.
16. Input Power: Displays the current charging power of this product in watts.
17. Remaining charge/discharge time: Remaining full time when charging or remaining discharge time when discharging. When charging and discharging, the remaining time of filling and the remaining time of discharging are displayed alternately

3. Product instructions

3.1 Startup, shutdown and LCD lighting

Start-up: Press the total power supply for 2 seconds, the LCD screen will be lit, and the total power indicator will always be on.

The LCD screen automatically goes out: After 5 minutes without any operation, the X 1500 will go to sleep.

The LCD screen is automatically lit: when the product has load change or operation.

Start or turn off the LCD screen: Please press the main power button briefly.

Shutdown: Press the total power button for 2 seconds.

Automatic shutdown: The default standby time of this product is 1 hour. If other output power keys are not turned on and the product has no load access, the product will automatically shut down after 1 hour.

3.2 Using AC Output

Turn on and off: After the total power supply is turned on, press the AC output power key briefly to turn on or off the AC output.

Automatic shutdown: If the AC output port of this product has no load for 10 hours continuously, the AC output power supply will be automatically shut down.

Prevent battery power from running out: When AC power is turned on, the main power supply of the product will not automatically turn off. To prevent the battery from running out, please turn off the AC power if the AC output is not used.

Frequency switching: When the AC power is turned off, the frequency can be switched by pressing and holding the AC power and main switch control buttons at the same time.

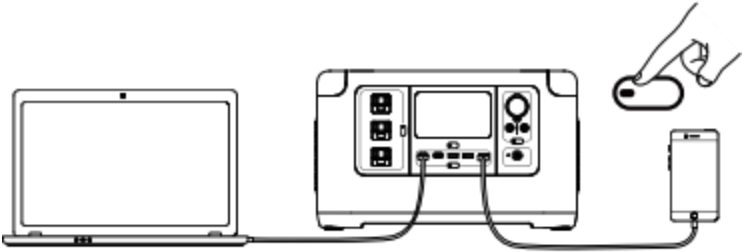
Note:

1. Even if the rated power of some electrical equipment is 1500W, the peak starting power may exceed 3000W when starting, which will lead to over-power protection of this unit. Please remove the electrical equipment and consult the equipment manufacturer for more information. If you need to use this product again, please tap the AC key of this machine again to regain the AC output.
2. Use three AC outputs for power supply at the same time. Please ensure that the power consumption does not exceed 1500W, so as to avoid overload protection, which will lead to the shutdown of all three electrical equipment. If this happens, please remove some electrical equipment, keep the total AC output power no more than 1500W, and then lightly press the AC key of this unit again to regain the AC output.

3.3 Using USB Output

Open and close: After ensuring that the total power supply of this product is turned on, press USB output power button briefly to open or close USB-A and USB-C output ports.

Automatic shutdown: If the USB output port of this product has no load for 10 hours continuously, the USB output power button will automatically shut down. When the USB output power is turned on, the main power supply of the product will not automatically turn off.



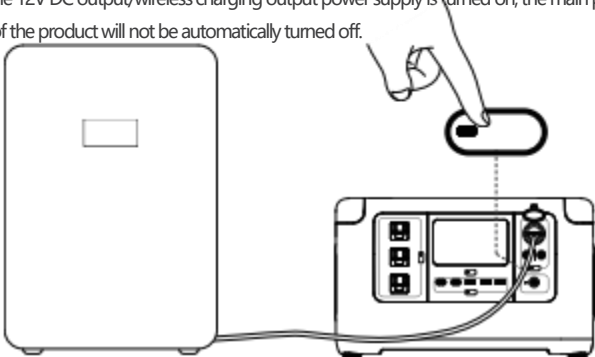
 Note:

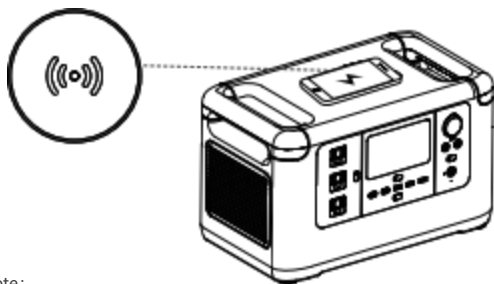
This product supports USB-A 18W fast charging and USB-C PD 100W fast charging. Each port is independent, which can support fast charging of multiple devices at the same time. The actual charging power is related to the USB-A/USB-C fast charging protocol of the device being used, and you can consult the device manufacturer for the corresponding information.

3.4 Use 12V DC Output and Wireless Charge Output

Turn on and off: After ensuring the total power supply is turned on, press the 12V DC output power key briefly to turn on or off the 12V DC output port and wireless charging function.

Automatic shutdown: If the 12V DC output and wireless charging output ports of this product have no load for 10 hours continuously, the 12V DC output power key will be automatically shut down. When the 12V DC output/wireless charging output power supply is turned on, the main power supply of the product will not be automatically turned off.





⚠ Note:

1. The DC 24V port standard of this product is DC5.5*2.5 port; The 12V port standard is DC5.5*2.1 port. Please confirm the product port type before use, or consult the equipment manufacturer for more information.
2. Wireless charging, DC5.5mm port and cigarette lighter port have a total output of 120W, and the port exceeding this power is protected due to overload/short circuit, and the output is closed.
3. Wireless charging supports fast charging of up to 15W. The actual charging power is related to the wireless charging fast charging protocol of the device used. You can consult the device manufacturer for corresponding information.

3.5 Lighting with LED

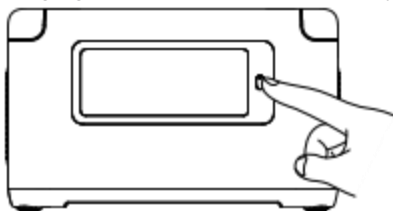
3.5 Lighting with LED

Turn on: After ensuring that the total power supply is turned on, press the bright power key to turn on. When the lighting function is turned on, the main power supply of the product will not automatically turn off.

LED lighting mode switching: LED lighting function is divided into 25%, 50%, 100%, SOS four modes. Press the bright power button to switch the mode until it is turned off.

Off: In any working mode, press the bright power button for a long time to turn off the lighting function.

⚠ Note: When the LED lighting function is turned on, please do not look directly at the light, so as not to affect your eyesight.

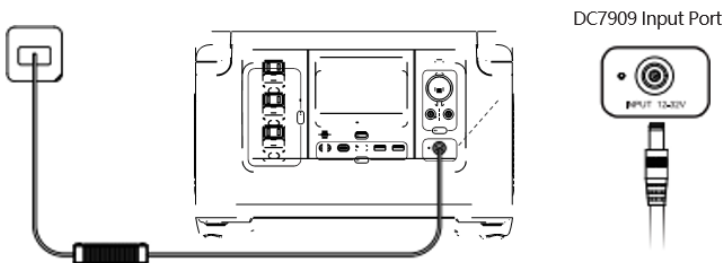


4. Product charging theoryMing

4.1 AC/Adapter Charging

Connect the AC plug of the standard charging adapter to the AC socket, and connect the DC7909 port at the other end to the charging DC port of this product to charge this product.

Alternating current socket



Note:

1. Please use a special charging adapter to charge this product. If the adapter is damaged, please do not continue to use it and contact the manufacturer.
2. Because of the large capacity of this product, the adapter is charged at 65 °C for a long time, which feels very hot, which is a normal phenomenon. The adapter shell has a heat-resistant design of 75 °C. When using, please charge in a well-ventilated place. When the adapter becomes very hot, please do not touch it for a long time to avoid scalding.
3. The maximum charging power of the product is 200W, and the charging power of the special adapter is 180W.

4.2 Solar Charging

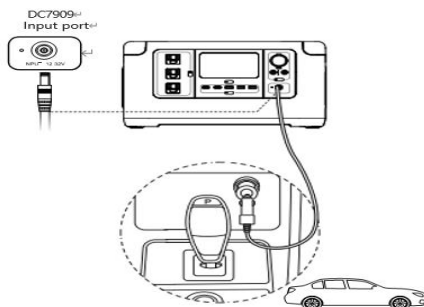
Solar panels can be used to charge this product as shown in the figure. The DC input voltage range of this product is 12V to 32V, the maximum current is 8A, and the maximum charging power is 200W.

⚠️Note:

1. This product has the function of maximum power point tracking (MPPT), which makes the charging speed faster.
2. Please use the standard solar charging cable of this product. The charging port of this product is DC7.9*0.9. Using the unofficial standard solar charging cable may damage the product.
3. The charging voltage range of the charging port of this product is 12-32V. Please do not use solar panels beyond or below this voltage range to charge the product, so as to avoid product damage or other unpredictable risks.
4. Charging with 200W solar panel, it takes about 6-10 hours from completely dead to full. The above data are DEENO laboratory data.
5. When the sun is not strong enough, the charging power will decrease sharply and the charging time will be prolonged; In cloudy or thunderous weather, please do not use solar panels for charging.

4.3 On-board Charging

May Cause Use the car charging port to charge this product, this product supports 12V car charging/24V car charging, the default charging current Is 8 A . Please use it after the car starts Charge the car, so as not to cause the car battery to lose power and fail to start. At the same time, ensure that the car is filled And the car charging input line Point Smoke device contact is good. If the loss is caused by not operating according to the specifications, the company will not bear the corresponding responsibility.) (Ben The default buzzer sound of the product is on. If you need to cancel the buzzer sound, please press USB + POWER to turn it off/on at the same time.



Fault display and treatment

Screen alarm		Exception type	Recovery method
	Chang Liang	High temperature alarm, Stop charging or discharging	After the product is left standing for a period of time and the temperature drops, the icon disappears automatically, and it is restarted and restored
	Chang Liang	High temperature alarm, Stop charging or discharging	The product is moved to a higher temperature environment and left for a period of time, When the time and temperature rise, the icon disappears automatically.Restart recovery
	Chang Liang	Low temperature alarm	Charge to 5% to recover
OVERL	Chang Liang	Overload protection, Turn off the AC output	The output power is reduced to below 1500W, and the load is restarted and restored after normal load
	Icon flashing	AC output port protection, turn off output	Remove the abnormal load, Restart and resume after normal load
	Icon flashing	AC output port protection, turn off output	Remove the abnormal load, Restart and resume after normal load
	Icon flashing	USB-C Output Port Protection, Off Output	Remove the abnormal load, Restart and resume after normal load
	Icon flashing	Wireless charging output port foreign body detection protection, turn off the output	Remove the abnormal load, Restart and resume after normal load
	Icon flashing	Cigarette lighter and DC port protection, turn off output	Remove the abnormal load, Restart and resume after normal load

 **Note:** If the alarm prompt appears during the use of this product, and the alarm icon does not disappear after restarting the machine, please stop using it immediately (do not try to charge or discharge). If none of the above information can solve your problem, please contact our professional customer service for consultation.„

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.