DEENO GT

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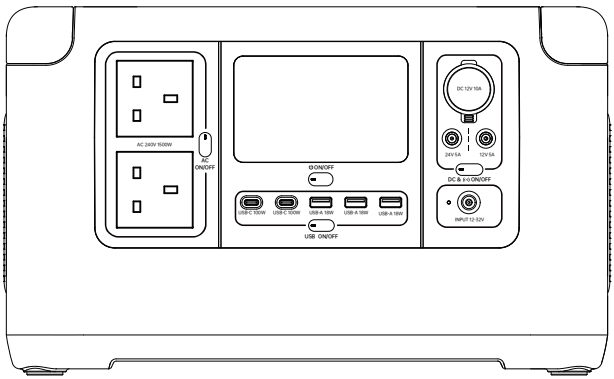
DEENO GT S1500

User Manual V 1.0



Our dedicated customer service team will
answer all your product questions within 24 hours (working days).
If you have any questions, please feel free to email us at support01@deeno.com

Disclaimer

Please read carefully about the product's User Manual before use to ensure proper use after fully understanding. After reading, please keep this Manual properly. Any improper operations of this product may lead to serious injury to you or other people, or product damage and property loss. Once you use this product, it is deemed that you have fully understood and accepted all the terms and contents in this User Manual. Users shall promise to be responsible for their own behaviors and all consequences arising therefrom. The company will not bear any loss arising from users failure to use the product as per the User Manual.

According to laws and regulations, the Company reserves the right of final interpretation of all data related to this User Manual and this product. For material update, version change or service termination, there will be no prior notice, please visit DEENO official website for more product information.

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⚠ Safety Instructions

Please follow the following instructions for safety usage:

1. Do not stick your fingers into the bottom of the handle when it is pulled up to avoid injury.
2. Do not put the product near heat sources, such as fire source or heating furnace when it is working.
3. Do not contact any liquid with this product, and do not immerse it in water or get it wet. Do not use this product in the rain or in a humid environment.
4. Do not use this product in a strong static or magnetic field.
5. Do not disassemble this product by any means or prick it with sharp objects.
6. Do not use wires or other metal objects to cause short circuit of this product.
7. Please do not use chargers or accessories unofficially provided. If change is required, please visit DEENO official sales channels for related purchase information.
8. When using this product, please strictly follow the environment temperature required in this User Manual.
9. Please do not move this product when charging or using, or it may cause poor contact of input / output interface.
10. Do not pile other heavy objects on this product.
11. Do not block the fan forcibly during use, block the fan inlet and outlet, or place the product in an unventilated or dusty space.
12. Please avoid impact, fall or violent vibration of this product, and please turn off the power and stop using in case of severe external impact. Please fix in place during transportation to avoid vibration and impact.
13. If the product catches fire, please put out it with dry powder, carbon dioxide fire extinguisher, instead of water.
14. If there are stains on the product interface, please wipe clean with a dry cloth.
15. Please place the product carefully to prevent damage caused by falling. In case of product falling or serious damage, please shutdown immediately, and place the battery in an open area, staying away from combustibles and scrapping according to local laws and regulations.
16. Place the product in a place unavailable to children and pets.
17. There is battery in this product, which is hazardous chemical. It is strictly forbidden to abandon it in an ordinary dustbin. Please follow local laws and regulations on battery recycling and disposal for relevant details.

Parameter Specification

Battery Specification

Capacity	1036Wh（28.8V 36Ah）
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Cycle Life	Residual Capacity ⩾80% after 3500 times

Input Specifications

AC Charging Input	750W Max
AC Input Voltage	220-240V~50Hz/60Hz，15A
Car Charging Input	12V ⎓ 8A / 24V ⎓ 8A 192W Max
Solar Charging Input	12-32V ⎓ 8A 200W Max
AC Charging Time	2h (0-100%)
Car Charging Time	12V 10-13h / 24V 5.5-6.5h (0-100%)
Solar Charging Time	6-10h (0-100%)

* The above data is from DEENO laboratory, for reference only. Please note that the charging time will change with environment and testing method.

Output Specification

AC Output x2	240V~50Hz/60Hz continuous 1500W (peak 3000W) pure sine wave
USB-A fast charge x3 channels output	5V ⎓ 3A、9V ⎓ 2A, 12V ⎓ 1.5A 18W Max output each channel
USB-C output x2 channels output	5V/9V/12V/15V ⎓ 3A、20V ⎓ 5A 100W Max output each channel
Car Charger Output x1	12V ⎓ 10A 120W Max
DC5.5*2.5 Output x1	24V ⎓ 5A 120W Max
DC5.5*2.1 Output x1	12V ⎓ 5A 60W Max
Wireless charging x 1	5V ⎓ 3A, 9V ⎓ 1.67A (15W Max)
LED Light	12W (Low - Medium - High - SOS)

Operating Temperature

Optimum Operating / Storage Environment Temperature	20°C~30°C (68°F~86°F)
Discharging Environment Temperature	-20°C~45°C (-4°F~113°F)
Charging Environment Temperature	0°C~45°C (32°F~113°F)
Storage Environment Temperature	-20°C~45°C (-4°F~113°F)

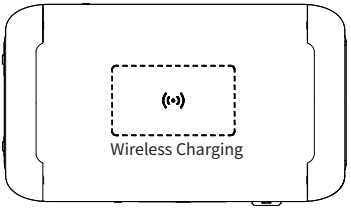
* Whether the product can charge or not depends on the actual temperature of battery pack rather than environment temperature.

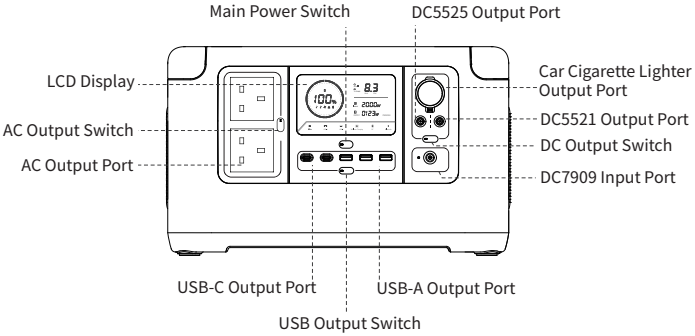
Other Specifications

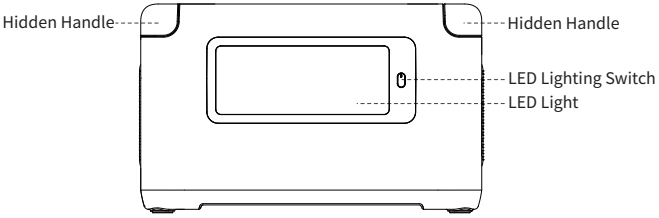
Net Weight	14.7KG (32.4 lbs)
Size	L393*W227*H239mm
Certification Standards	UN38.3、PSE、CE、ROHS、REACH、FCC
Package Contents	Product main body, AC charging cable, MC4-DC7.9*0.9 charging cable, car charger male connector - DC7.9*0.9 charging cable, Manual (with warranty card), accessory bag

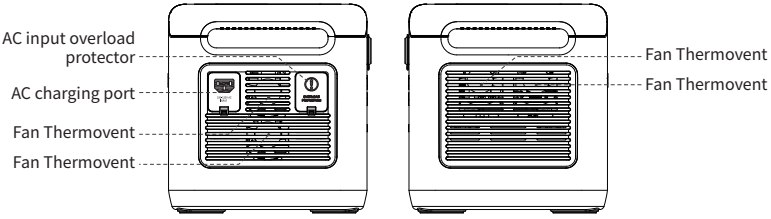
Guideline for Beginners

1. Product Details

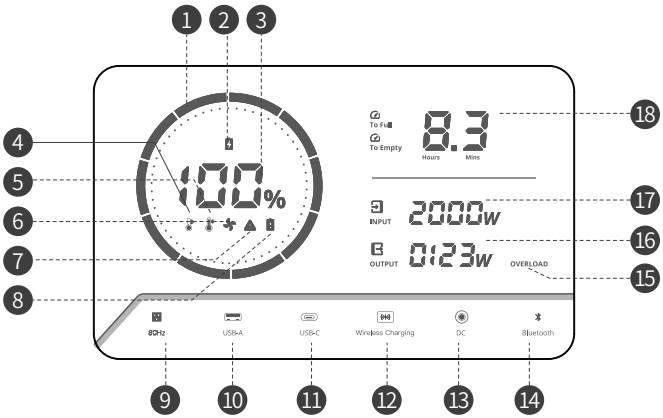








2. Display Icon Description

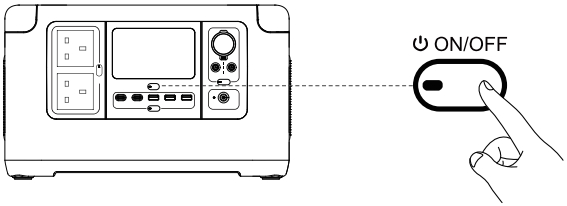


1. Battery power indication: when it is charging, the icon rotates clockwise.
2. Charging status indication: when it is charging, the icon is normally on.
3. Battery power percentage: percentage of current remaining power.
4. Low temperature alarm: if the battery temperature is below 0°C (32°F) when charging or is below -20°C (-4°F) when discharging, charging / discharging is prohibited, and the icon is normally on at the same time. Please place the product in an environment higher than this temperature for a while before recharging / powering on to discharge, the product will resume working.
5. High temperature alarm: if the battery temperature is higher than 50°C (122°F) when charging or is higher than 70°C (158°F) when discharging, charging / discharging is prohibited, and the fan is turned on forcibly and the icon is normally on at the same time. After the battery cools down, turn off the fan, and recharge / start up to use this product.
6. Fan status: when the operating power reaches 150W or product internal temperature reaches the set value (45°C for battery, 70°C for components), the cooling fan starts automatically.
7. Fault alarm: when a fault occurs, this icon is normally on, and fault port indicator flashes at the same time.
8. Battery pack alarm: when the battery power is below 5%, the icon is normally on.
9. AC output: the AC port is enabled, and current AC frequency is displayed.
10. USB-A output: USB-A port is enabled.
11. USB-C output: USB-C port is enabled.
12. Wireless charging output: the wireless charging output is controlled by DC button. When the DC button is on, place the mobile phone with wireless charging function in the top wireless charging indication area for charging, the icon will be normally on; Remove the phone, the icon will disappear.
13. DC output: the cigarette lighter port, DC5.5*2.5 and DC5.5*2.1 ports are enabled, the wireless charging port is in standby status.
14. Bluetooth status: when the product is successfully connected to APP, the icon is normally on.
15. Overload alarm: when the output power exceeds 1800W, the icon is normally on.
16. Output power: it will display current discharging power of this product, and the unit is watt.
17. Input power: it will display current charging power of this product, and the unit is watt.
18. Remaining charging /discharging time: the remaining time before fully charged or the remaining time before fully discharged. When charging and discharging simultaneously, the remaining charging time and remaining discharging time are displayed alternately.

3. Product Instructions

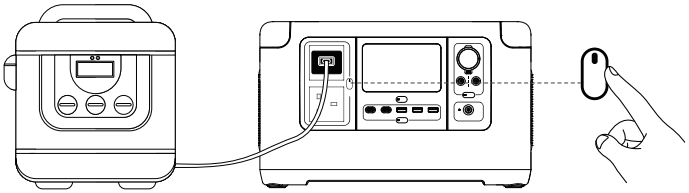
3.1 Startup, Shutdown and LCD are on

Startup: press the main power switch for 2 seconds, the LCD will be on and main power indicator is normally on.
LCD is off automatically: if no operation is performed for 5 minutes, S1500 will enter sleep state.
LCD is on automatically: when the load of this product changes or when it is in operation.
Turn on or off LCD: please press the main power switch briefly.
Shutdown: press the main power switch for 2 seconds.
Auto shutdown: the default standby time of this product is 1 hour. If other output power buttons are not turned on and the product has no load access, the product will be shutdown automatically after 1 hour.



3.2 Use AC Output

ON & OFF: after ensuring that the main power switch is turned on, press the AC output power button briefly, and the AC output can be turned on or off.
Auto off: if there is no load access of the product's AC output port for 10 hours continuously, the AC output power will be turned off automatically.
Prevent the battery from running out: when the AC power is on, the main power of this product will not be turned off automatically. To prevent the battery from running out, please turn off the AC power if it is not used.
AC output function bar, frequency switch: When the AC power is turned on, push the AC button and then POWER button to switch the frequency.

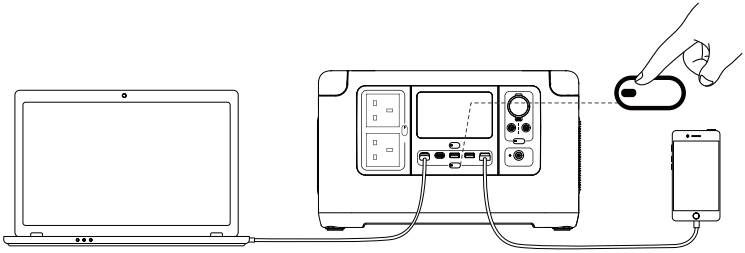


⚠ Notes:

1. When starting some electric equipment, even if their rated power are 1500W, their peak power may exceed 3000W, which will lead to over power protection of the machine. Please remove the electric equipment, and consult equipment manufacturer for more information. If you need to use this product again, please tap the AC button on the machine again to obtain AC output.
2. Use 2 AC outputs for power supply. Please ensure that the power consumption is less than 1500W, so as to avoid overload protection and the shutdown of 2 electric equipment. In this case, please remove some electric equipment, keep the total power of AC output no less than 1500W, and tap the AC button on the machine again to obtain AC output.

3.3 Use USB Output

ON & OFF: after ensuring that the main power switch of this product is turned on, press the USB output power button briefly, and the USB-A and USB-C output ports can be turned on or off.
Auto off: if there is no load access of the product's USB output port for 10 hours continuously, the USB output power button will be turned off automatically. When the USB output power is on, the main power of this product will not be turned off automatically.

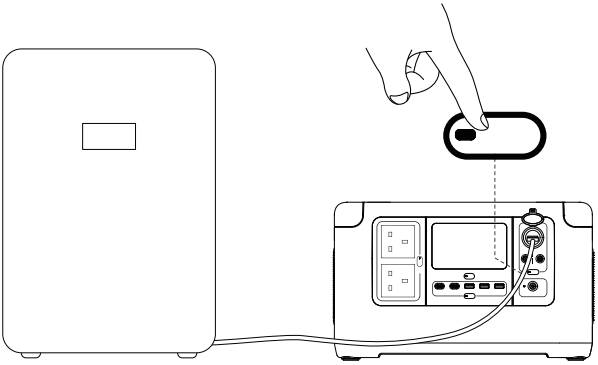


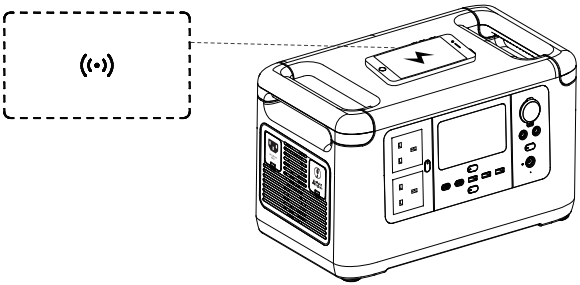
⚠ Notes:
This product supports USB-A 18W fast charging and USB-C PD 100W fast charging. Each port is independent and can support the fast charging of multiple equipment at the same time. The actual charging power is related to USB-A/USB-C fast charging protocol of the equipment used, you are allowed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

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.

3.4 Use 12V DC Output and Wireless Charging Output

ON & OFF: after ensuring that the main power switch is turned on, press the 12V DC output power button briefly, and the 12V DC output port and wireless charging function can be turned on or off.
Auto off: if there is no load access of the product's 12V DC output and wireless charging output ports for 10 hours continuously, the 12V DC output power button will be turned off automatically. When the 12V DC output / wireless charging output power is on, the main power of this product will not be turned off automatically.





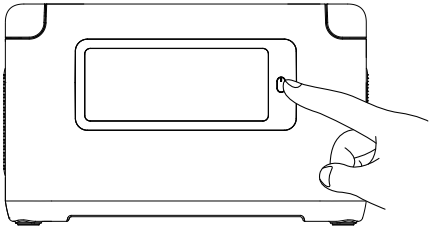
⚠ Notes:

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, you are also allowed to consult equipment manufacturer for more information.
2. The total output of wireless charging, DC5.5mm port and cigarette lighter port is 120W. Exceeding the limit, the port will be protected due to overload / short circuit, and the output will be closed.
3. Wireless charging supports up to 15W fast charging, and the actual charging power is related to wireless charging fast charging protocol of the equipment used, you are allowed to consult the manufacturer for corresponding information.

3.5 Use LED Lighting

ON: after ensuring that the main power switch is turned on, press the lighting power button briefly to turn on. When the lighting function is enabled, the main power of this product will not be turned off automatically.
LED lighting mode switching: the LED lighting is divided into four modes: 25%, 50%, 100% and SOS. Press the lighting power button to switch the mode until it is off.
OFF: press the lighting power button and hold for a while in any working mode to turn off the lighting function.

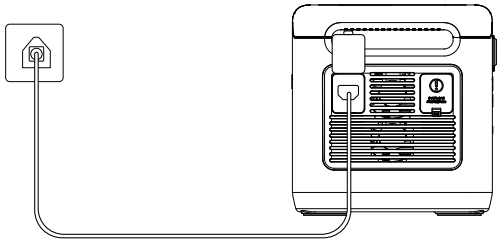
⚠ Note: when turning on the LED lighting function, please do not look directly at the light to avoid affecting your vision.



4. Product Charging Instructions

4.1 AC Charging

The charging input port will begin the self-protection function and the overload protection switch will automatically activate under the circumstances that AC input current is consistently higher than 15A. Press the overload protection switch to restart charging after making sure the product is in working order.

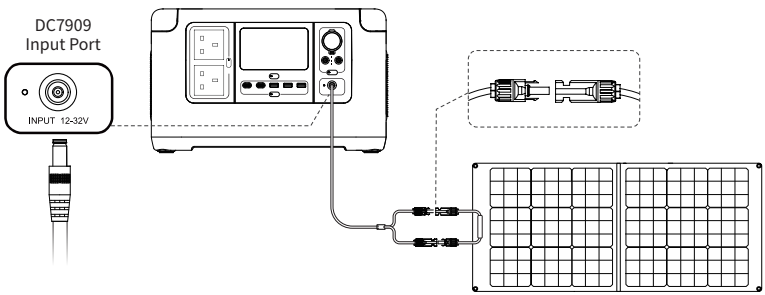


Notes:

For AC charging, please only use the DEENO' s original charging cable. DEENO disclaims responsibility for any harm resulting from the use of alternate, unauthorized charging cables.

4.2 Solar Charging

Charge this product with a solar energy panel as shown in the figure. The DC input voltage range of this product is from 12V to 32V, the maximum current is 8A, and the maximum charging power is 200W.

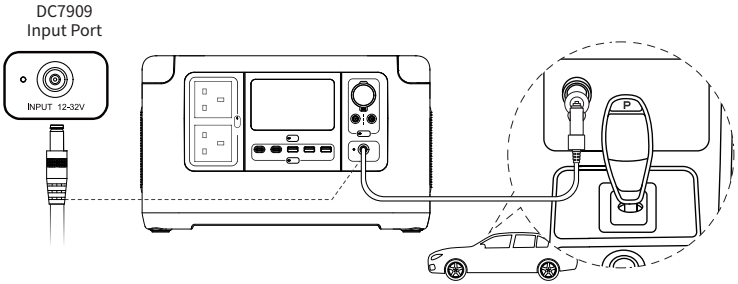


Notes:

1. This product has a maximum power point tracking (MPPT) function, with faster charging speed.
2. Please use the standard solar energy charging cable of this product, and its charging port is DC7.9*0.9. The unofficial standard solar charging cable may damage the product.
3. The charging voltage range of this product's charging port is 12-32V. Please do not use the solar energy panel exceeding or below this range for charging, so as to avoid product damage or other unpredictable risks.
4. It takes about 6-10 hours to fully charge the product with a 200W solar energy panel. The above data are from DEENO laboratory.
5. When the sun is not strong enough, the charging power will be sharply reduced, and the charging time will be prolonged; Please do not use solar energy panel for charging in cloudy or lightning days.

4.3 Car Charging

The car charging port is allowed to charge this product. The product supports 12V car charging / 24V car charging, and the default charging current is 8A. Please use the car charging after start the car, so as to avoid car battery loss and failure to startup. Meanwhile, make sure that the car charging port is in good contact with the cigarette lighter of car charging cable. The company will bear no responsibility for any loss caused by operation not following the standards.

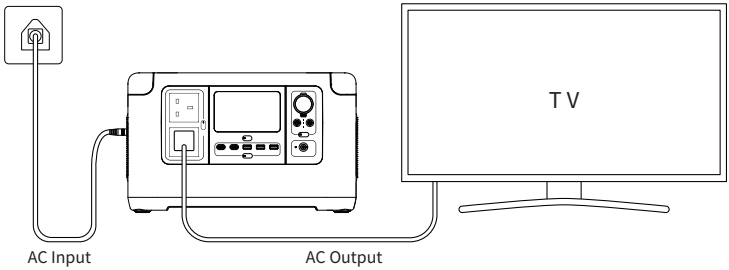


5. Buzzer Sound Cancellation / Recovery

The buzzer sound of this product is turned on by default. If you need to cancel the buzzer sound, please press the USB+POWER buttons simultaneously to turn off / on.

6. UPS function

This product supports UPS (Emergency backup power) function, you can connect the product to the grid and the powered equipment through AC cables. When the grid is operating, this product uses grid AC power instead of battery storage. If the grid unexpectedly on outage, this product can quickly switch to a battery power supply mode (within 10ms). This function is a non-professional UPS function and and 0ms switching is not supported. It is advised to use only one device at a time to avoid overload protection of the product. Please do not connect it to devices that require high uninterrupted power supply, such as data servers and workstations, or use it after performing multiple tests to determine whether it is compatible. Our company will not be made responsible if the device does not function normally or if data is lost as a result of disregarding the instructions.



Fault Display and Handling

Screen Alarm	Screen Alarm	Recovery Method
Normally On	High temperature alarm, stop charging or discharging	After the product is left for a while and the temperature decreases, the icon will disappear automatically, and restart to recover it
Normally On	Low temperature alarm, stop charging or discharging	Transfer the product to a high temperature environment and leave it for a while. After the temperature rises, the icon will disappear automatically, and restart to recover it
Normally On	Low Battery Alarm	Charge to 5% to recover
OVERLOAD Normally On	Overload protection, turn off AC output	The output power is lower than 1500W, restart to recover it after the load is normal
80Hz The icon flashes	AC output port protection, turn off the output	Remove the abnormal load, and restart to recover it after the load is normal
USB-A The icon flashes	USB-A output port protection, turn off the output	Remove the abnormal load, and restart to recover it after the load is normal
USB-C The icon flashes	USB-C output port protection, turn off the output	Remove the abnormal load, and restart to recover it after the load is normal
Wireless Charging The icon flashes	Foreign matter detection and protection of wireless charging output port, turn off the output	Remove the abnormal load, and restart to recover it after the load is normal
DC The icon flashes	Cigarette lighter and DC port protection, turn off the output	Remove the abnormal load, and restart to recover it after the load is normal

⚠ Note: if there is an alarm prompt during the use of this product, and the alarm icon does not disappear after restarting the machine, please stop using immediately (do not try to charge or discharge). If your problem are not solved through above information, please contact our professional customer service for consultation.

❷ Common Problems

1. What type of battery is the product equipped with?
The product is equipped with high quality lithium iron phosphate battery.

2. What equipment can the product AC output port carry?
The AC output port rated power of this product is 1500W,and peak power is 3000W, which can supply power to most household appliances. However, please check the power of the appliance before use, and ensure that the sum of the power of all the loaded equipment is less than the rated power.

3. How to know the power supply time of the product?
The LCD of this product will display the battery life, which can be used as a reference for equipment with stable power consumption.

4. How to judge whether the product is charging?
When charging, the LCD will display the remaining charging time, the power indicator circle outside the battery power percentage starts to rotate circularly and displays the input power.

5. How to clean this product?
Please wipe the product with dry, soft and clean cloth or paper towel.

6. How to store the product?
When storing, please turn off the product first, and store it in a dry, ventilated and room temperature place. Do not place this product near the water source. For long term storage, it is recommended to discharge the battery to less than 20% every three months, and to charge it to above 80% to extend the service life of this product.

7. Is the actual output capacity of the product consistent with the capacity specified in the User Manual?
The capacity specified in the User Manual is the rated capacity of the product's battery pack. Due to certain efficiency loss during charging and discharging of the product, the actual output capacity of the product is lower than the capacity specified in the User Manual.

Product Maintenance

1. It is recommended to use or store this product at 20°C to 30°C (68°F-86°F), staying away from water source, heat source and other metal objects.
2. For long term storage, please charge and discharge the product every 3 months (after discharging, please charge to above 80% to store).
3. For your safety, please do not store the product in an environment higher than 45°C (113°F) or lower than 0°C (32°F). Long term storage in a high temperature or low temperature environment may cause impossible damage to the battery cell and shorten the service life of this product.
4. To prolong the battery's service life, it is recommended to use this product at 20°C to 30°C (68°F-86 °F).
5. If it is idle for a long time, please charge it to above 80% before storage. If it is idle for a long time in case of serious shortage of power, it may cause irreversible damage to the battery cell and shorten the service life of this product.
6. If the product is in serious shortage of power and is idle for a long time, it will enter the deep sleep mode. Charge the product before using it again.
7. Due to the chemical characteristics of lithium iron phosphate battery, cold weather (below 0°C/32 °F) will affect the capacity of the battery. If you are in a cold pace and the grid AC power is not available, please store the machine in an environment higher than 0°C/32°F for a period of time before using the product, which is conducive to restoring more capacity of the product.

Warranty Period

The warranty period of DEENO power products is 24 months. In each case, the warranty period begins on the date of purchase by the original consumer and purchaser. In order to determine the start date of the warranty period, consumers are required to provide a sales receipt or other reasonable documentation of their initial purchase.
Our dedicated customer service team will answer all your product questions within 24 hours (working days). If you have any questions, please feel free to email us at
support01@deeno.com (Europe)
support02@deeno.com (Asia Pacific)
support03@deeno.com (US & Africa).

Product Warranty Card

Distributor Name / Seal		Precautions	
		·This card is the product warranty card and is required during machine maintenance, please fill in and keep this card properly. This card and the proof of purchase must be presented at the same time to enjoy the warranty service provided by DEENO.	
Product Name	**Model**	**Machine Body No.**	**Warranty Period**

FCC Warning

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.