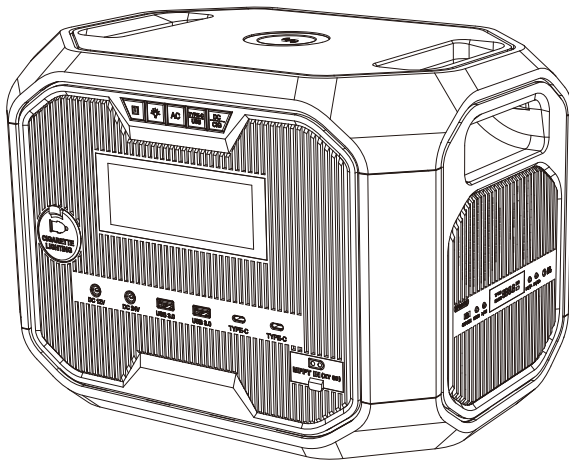




# USER MANUAL

Portable Power Station 1200W

MP12



[www.marsriva.com](http://www.marsriva.com)

# WARNINGS

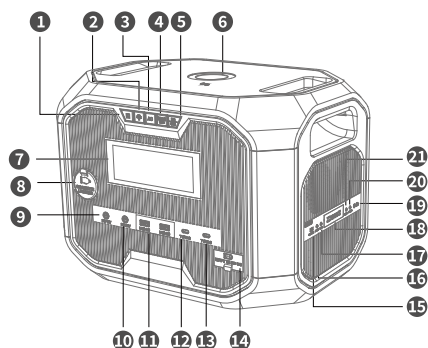
1. This product generates electromagnetic waves during use and charging, so if you wish to power an implantable pacemaker or similar device, be sure to check with your physician or healthcare provider and the device manufacture before using it.
2. Do not attempt to disassemble or modify the product as this may cause the product to overheat causing a fire or electric shock. If the product is deformed or damaged as a result of dropping or being struck, do not continue to use the product to avoid a safety incident.
3. Please replace the product charger, charging cable and plug in time when they are damaged to avoid safety accidents.
4. Please use the product within the ambient temperature of -10°C~45°C as marked in the instruction manual. Do not place the product in liquid or corrosive gases to avoid safety accidents; and do not use the product in environments with a large amount of steam, dust, or fumes to avoid safety accidents.
5. Please do not operate the product or charge the product with wet hands, in order to avoid electric shock accidents; when used outdoors, pay attention not to let rain, seawater, beverages and other liquids touch the product, in order to avoid safety accidents caused by short circuit due to the liquid flowing into the interior of the product.
6. Do not connect the AC output to any electrical wires of the power company or indoor wires, which may cause electric shock or fire. When charging the product, be sure to use the charging cable configured by our company, if you need to use other chargers to charge the product in case of emergency, you must use a charger that meets the charging voltage and charging current requirements in the instruction manual to charge the product to avoid safety accidents. Please use household power supply, DC car power supply and solar panel to charge the product battery. This product is set according to the voltage standard of different countries before delivery, before purchase and use, please consult the dealer or use the product against the instruction manual.
7. If you notice any unusual odor, overheating, discoloration or deformation during charging, promptly unplug the charger from the outlet, otherwise overheating and fire may result. When connecting the power plug of electrical equipment to this product, please insert the plug firmly into the root, otherwise it may lead to electric shock or fire.
8. Keep out of reach of children to avoid electric shock or injury due to improper operation.
9. Do not store this product in a humid, dusty, or hot environment as this may degrade the insulating properties of the product and cause overheating or fire. Storage at high temperatures may also shorten battery life.
10. This product should not be disposed of with household garbage; please recycle according to local laws and regulations.

# SPECIFICATIONS

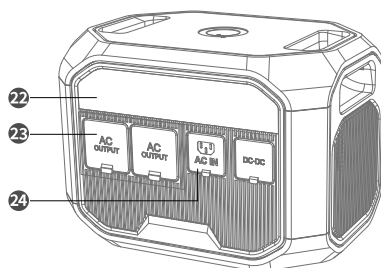
GENERAL INFO	
Rated Power	1200W Pure Sine Wave (Peak Power 2400W)
Rated Capacity	1310Wh (25.6V / 51200mAh)
Battery Type	LiFePO4 Battery
Audio	Bluetooth / FM / Microphone
Cycle Life	6000 Cycles @80% EOL
Weight	12.9kg
Dimensions	350 x 252 x 250 mm
OUTPUT	
Type-C1	5V $\overline{\text{---}}$ 3.0A / 9V $\overline{\text{---}}$ 2.0A / 12V $\overline{\text{---}}$ 2.0A / 15V $\overline{\text{---}}$ 2.0A / 20V $\overline{\text{---}}$ 2.0A, 40W (Max.)
Type-C2	5V $\overline{\text{---}}$ 3.0A / 9V $\overline{\text{---}}$ 3.0A / 12V $\overline{\text{---}}$ 3.0A / 15V $\overline{\text{---}}$ 3.0A / 20V $\overline{\text{---}}$ 5.0A, 100W (Max.)
USB-A1	5V $\overline{\text{---}}$ 3.0A / 9V $\overline{\text{---}}$ 2.0A / 12V $\overline{\text{---}}$ 1.5A, 18W (Max.)
USB-A2	5V $\overline{\text{---}}$ 3.0A / 9V $\overline{\text{---}}$ 2.0A / 12V $\overline{\text{---}}$ 1.5A, 18W (Max.)
DC5521	13V $\overline{\text{---}}$ 5.0A, 65W (Max.)
DC5525	24V $\overline{\text{---}}$ 4.5A, 108W (Max.)
Cigarette Lighter	13V $\overline{\text{---}}$ 10.0A, 130W (Max.)
AC Output * 2	220V, 50Hz, 1200W (Max.)
Wireless Charging	Transmission power: 15W (Max.)
INPUT	
AC Input	200V – 240V, 50Hz, 870W (Max.)
XT60 Input	15V – 29V, 150W (Max.) (Support MPPT and Car Charger Charging)
ENVIRONMENTAL OPERATING TEMPERATURE	
Charge Temperature	0°C to 45°C
Discharge Temperature	-10°C to 45°C

Specifications are subject to change without notice and all product drawings are for reference only. Consult MARSRIVA for the latest design and specifications.

# FUNCTION



- ① Main Power On Key
- ② Lighting Switch
- ③ AC Switch
- ④ Type-C & USB Switch
- ⑤ DC Switch
- ⑥ Wireless Charging
- ⑦ Display
- ⑧ Cigarette Lighter
- ⑨ DC 5521 Output
- ⑩ DC 5525 Output
- ⑪ USB-A QC3.0 18W
- ⑫ Type-C 40W



- ⑬ Type-C 100W
- ⑭ XT60 Charging Port
- ⑮ Bluetooth / Radio
- ⑯ Mode Selection
- ⑰ Play / Pause
- ⑱ Display
- ⑲ Previous Song / Volume Down
- ⑳ Next Song / Volume Up
- ㉑ Microphone Jack
- ㉒ Light
- ㉓ AC Output
- ㉔ AC Input

\* When the Bluetooth function is in use, there will be a bi-lingual (Chinese and English) reminder when the product's battery is too low: Please charge the battery in time.

## 1. Power Buttons

Long press the "☰" button for 3s to turn on the device, the LCD display will light up and the battery icon will light up. Short press the "☰" button to turn on the one-key "SOS" mode, long press the "☰" button for 3s to turn off the device.

## 2. AC Output Button

When using the AC output, first turn on the power of the product, then press the "AC" button, the AC output is turned on, the "☰" icon in the screen lights up, when the "AC" button is pressed again, the output is turned off.

### 3. DC12V / DC24V Functions

Under the power-on state, short press the "DC" button, the "% " icon appears on the screen, and the DC12V / DC24V and cigarette lighter functions start normally; connect the device through the standard connection cable.

### 4. Wireless Charging Function

Long press 2s-3s "DC" after the product is turned on, long press the switch "W", the screen appears wireless charging "W" icon, the function is normally open. Please place the mobile phone with wireless charging function in the designated wireless charging position on the top of the case of the product, and it can be charged normally (note that the phone from the wireless charger can not be more than 6mm, otherwise the charging efficiency will be reduced or can not charge).

### 5. USB, Type-C Power Output Button

Long press 2s-3s "W" after the product is turned on, short press the switch "USB", the "USB" icon on the display lights up, the USB / Type-C function has been turned on, then plug in the USB cable or Type-C cable and connect it to the appliance, the appliance will enter the charging mode. Then plug in the USB cable or Type-C cable and connect it to the appliance, the appliance will enter the charging mode, after the charging is finished, unplug it and turn off the output button.

### 6. LED Lighted Buttons

Short press the "G" button lighting on, the first gear medium brightness 50%, the second gear high brightness 100%, the third gear breathing light mode, the fourth gear burst flash mode, then press again to turn off (long press 2-3S in any mode to turn off the lighting).

### 7. Bluetooth Stereo / Radio

Toggle the Bluetooth switch to turn on the device in the power-on state, the Bluetooth mode will be turned on and the screen will display the Bluetooth icon, short press the switch mode switch to switch the Bluetooth FM mode.

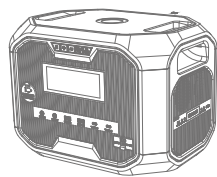
#### Bluetooth Mode:

When you use it for the first time, please long press the "pause button" to search for stations, short press the up and down buttons to change stations, and long press to adjust the volume. (If the FM can not be used normally, please long press the "pause play button" will automatically search for stations, after the end of the return to normal work).

#### Microphone / KTV Mode:

There is a microphone port on the Bluetooth module that can be accessed for KTV mode.

# PRODUCT PACKAGING



Portable Power Station × 1

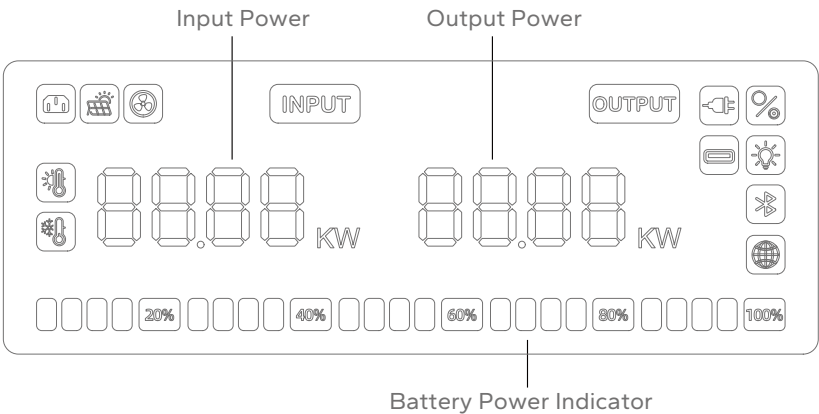


User Manual × 1



AC Charging Cable × 1

# DISPLAY DESCRIPTION



AC Charging



Photovoltaic Charging



Fans



AC Icons



DC12V and 24V output on



USB / Type-C



Lighting



High temperature warning



Low temperature warning



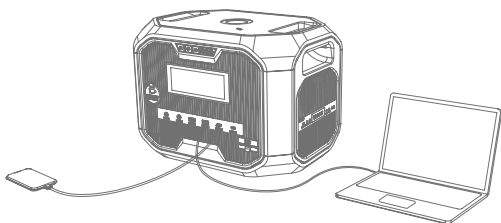
Bluetooth






Wireless charging

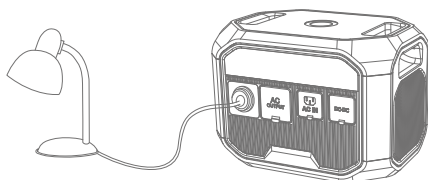
# OPERATING INSTRUCTIONS





## A: How to use USB / Type-C output



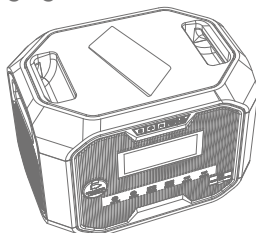
- ① Long press 2s-3s "  " After the product is turned on, short press the "  " switch, the "  " icon on the display lights up and the USB / Type-C function is turned on.
- ② Plug in the USB cable, the Type-C cable plug is connected to the appliance being used, and the appliance enters the charging mode.
- ③ When the charging is completed, unplug and turn off the output button.

## B: How to use the AC outlet output



- ① Press and hold 2s-3s "  " to turn on the power.
- ② Press and hold the "  " button, the AC output turns on, the "  " icon in the screen lights up, when the "  " button is pressed again, the output turns off.  
Supports ups output up to 1200W.

## C: How to use wireless charging



- ① After turning on the wireless charging function, you can charge your phone by placing it at the wireless charging place, the maximum effective distance of wireless charging is 6mm, it is recommended to remove the protective case of the phone when charging to avoid the situation of not being able to charge. (This function is compatible with most of the models on the market)

- ② The product wireless charger has a foreign object detection function, when there is about "one dollar coin" size of the metal object dropped in the wireless charging position, the wireless charger will enter the protection state, at this time the foreign object will be removed, the wireless charger back to normal charging.

## PRODUCT CHARACTERISTICS

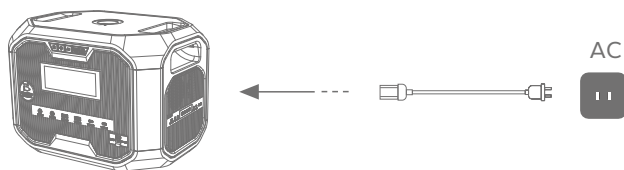
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- ① When the battery pack voltage is too low, the product will enter the over-discharge protection state and the product must be recharged.
- ② When the temperature is around  $-10^{\circ}\text{C}$ , only USB and LED lighting function can be used; when the ambient temperature is higher than  $-5^{\circ}\text{C}$ , AC power can be turned on, and USB / Type-C and cigarette lighter plugin can be turned on normally (within  $+2^{\circ}\text{C}$  temperature error).
- ③ Due to the low-temperature characteristics of lithium-ion iron phosphate batteries, this product is recommended for use in environments above  $-3^{\circ}\text{C}$ .
- ④ Charge / Discharge Limit: The product limits the charge / discharge function when the battery is in a low temperature ( $-20^{\circ}\text{C}$ ) or high temperature ( $60^{\circ}\text{C}$ ) state.
- ⑤ Energy Saving Mode:
- When the product is turned on, it will be forced to shut down when there is no operation for 5-15 minutes.
  - When the product turns on the function, when there is no load, or when the total load power is less than 8W, the product enters the energy-saving mode and will be forced to shut down after 10 hours.

## CHARGING METHODS

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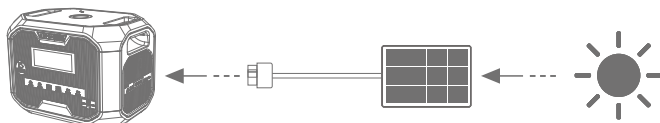
### 1. Charging with AC charging cable



- Connect the mains power to the product charging socket via the charging cable, when the AC charging icon on the display lights up and the power icon flashes in a running light, it indicates normal charging and about 2.8 hours full.
- If the internal temperature of the product becomes too high during charging, the product stops charging and discharging.
- When the battery is fully charged, the screen power display bar shows 100% power, indicating that the charging is complete, the overcharging protection function is activated, and the charging will stop automatically. Please disconnect the charging cable from the device and unplug it from the power outlet in time.

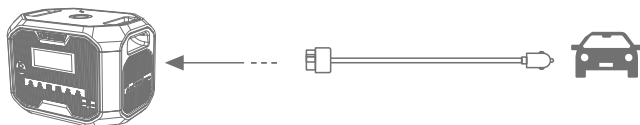


## 2. Charging with solar panels



- Place the solar panel in direct sunlight (unobstructed).
- This product supports MPPT charging mode, when the solar panel output port is connected to the product's MPPT charging port, the PV charging icon appears on the display, indicating normal charging.
- If the internal temperature of the product rises during the charging process, the fan will be activated to cool the device.
- When the battery is fully charged, the screen power display bar shows 100%, indicating that the charging is complete, the overcharging protection function is activated and the charging will stop automatically. Please remove the charging cable from the product and the solar panel, turn off the solar panel output function.

## 3. Charging with car cigarette lighter



- Insert the plug of the car charger charging cable into the cigarette lighter jack of the car, then connect the other end of the car charger charging cable to the car charger charging port of the product, start the car, and the product starts charging.
- When the display power level flashes in a running light, it indicates normal charging.
- When the battery is fully charged, the screen power display bar shows 100% power, indicating that charging is complete, the overcharge protection function is activated and charging will stop automatically. Please unplug the car charger charging cable from the device.



# COMMON TROUBLESHOOTING TIPS

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When the product is abnormal, the corresponding function will be forced to shut down, and the corresponding icon will flash and report error, at this time, you can press the corresponding function key to release the abnormal error reporting icon, and press the corresponding function key to restart the corresponding function. Note that "when the product triggers the hardware protection, the current port will be shut down, and there will not be any icon on the screen to indicate that there is an error reporting status, and the output will be restored automatically after the disconnection of the load".

- ① Port shuts down output when USB overcurrent or short-circuit protection is active, USB icon blinks to warn of overcurrent or short circuit.
- ② The port output shuts down when the Type-C is overcurrent or short-circuit protected, and the Type-C icon flashes as a warning.
- ③ When the cigarette lighter output is overcurrent or short-circuit protected the port output shuts down and the Dc icon flashes as a warning.

**Note:** The DC552I output port is purely hardware protected, so the screen will not display an error message after the DC552I output is overloaded or short-circuited.

- ④ When AC output triggers over-temperature, overload or short-circuit protection, AC automatically shuts down the output, and the AC icon on the screen flashes to report the error, and when the temperature is restored to  $\leq 70$  degrees, the output will be restored automatically.
- ⑤ When the battery 65 over-temperature protection shut down all outputs, at this time the icon "  " and the battery icon flashes (1 second 1 flash), the fan works; until the battery over-temperature is lifted (the temperature drops to 50 – 55 degrees) and then restart the corresponding function.
- ⑥ Turn off all outputs when the battery -25 degrees low temperature protection, at this time the low temperature icon "  " and the battery icon flashes (1 second 1 flash), until the battery low temperature is lifted the temperature returns to -5 degrees) and then restart the corresponding function.
- ⑦ When the battery is in a low voltage state, the battery icon blinks (1 flash per second) and turns off all function outputs, and the product shuts down within 1 minute if not charged.
- ⑧ When the wireless charger detects a metal foreign object, there is no output from the wireless charger.

## Error Code:

111 111 Inverter communication abnormality  
222 222 Inverter high temperature abnormality  
333 333 Inverter overload protection  
444 444 Inverter short circuit protection  
555 555 Battery low voltage protection  
666 666 Battery low temperature protection  
777 777 Battery high temperature protection  
888 888 BMS communication abnormality

# PRECAUTIONS FOR PRODUCT USE

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- ① Please pay attention to the input and output voltage range when using this product, the input voltage and power range required by your equipment are within the range of the energy storage power supply, and the correct use can prolong the service life of the energy storage power supply.
- ② The connecting cables must be matched because various load cables correspond to different devices. Therefore, in order to properly use the storage power supply to power your equipment, please use the guaranteed original connection cable.
- ③ Energy storage power supply needs to be placed in a dry environment for preservation, the correct preservation method can extend the service life of the energy storage power supply.
- ④ Please fully discharge this product every 2 months to improve the life of the product's battery cell.
- ⑤ Do not place this product in a place where the temperature is too high or too low.
- ⑥ A too high or too low ambient temperature can shorten the life of electronic products and cause serious damage to the product casing.
- ⑦ Do not wipe the product with corrosive chemical solvents. Appearance stains can be scrubbed with a cotton swab moistened with a small amount of anhydrous alcohol.
- ⑧ When using the product, please gently hold and put, do not fall or violent disassembly.
- ⑨ This product has high voltage inside please do not disassemble it by your self to avoid possible safety accidents.
- ⑩ It is recommended to fully charge the product for the first time to avoid inconvenience caused by insufficient power. After the device is fully charged and the charging power cord is unplugged, the fan will continue to work for about 5-10 minutes to dissipate the heat of the device. (The service life of the device may vary with the temperature of the scene).
- ⑪ When the equipment fan is in operation, care should be taken to prevent dust particles or foreign matter from being sucked into the interior of the equipment, or it will easily cause damage to the internal equipment.
- ⑫ After the termination of the discharge, the device fan will continue to work to reduce the temperature of the device to reach a reasonable temperature, the specific time is about 30 minutes (the specific time may vary with the temperature of the scene). At the same time charging and discharging, the device temperature is too high, will trigger the automatic power off protection.
- ⑬ During the charging and discharging process, please connect the device to the charging and discharging equipment before turning on the charging and discharging. Otherwise, sparks may appear, which is normal.
- ⑭ After discharging, please leave the product standing for about 30 minutes for the temperature to drop before arranging charging to improve the service life of the product's battery cell.

# WARRANTY POLICY

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Please read the warranty carefully and keep it in a safe place.

- ① This product will be repaired if it fails during the warranty period for normal use in accordance with the operating instructions. The parts replaced during this period are the property of our company.
- ② For replacement or warranty, please send this warranty card together with the product.
- ③ No free repairs will be made during the warranty period if any of the following conditions apply.
  - Failure or damage due to failure to observe the precautions recorded in the instruction manual.
  - Failure or damage caused by improper storage (failure of the product's battery due to prolonged failure to recharge the product).
  - Failure or damage caused by the use of an adapter other than the specified power supply and within the specified voltage range.
  - Private repair of faults or damage caused by dismantling or modification.
  - Damage to the surface coating and exterior is not covered by the warranty.
  - Product outer packaging and product accessories are not covered by the warranty.
- ④ Failure or damage due to force majeure (force majeure refers to unforeseen, unavoidable or insurmountable objective events, including natural disasters such as floods, fires, explosions, lightning, earthquakes and storms, as well as societal events such as wars, disturbances, etc.).
- ⑤ This manual is for use only in (this sales area), the final interpretation right belongs to the company.
- ⑥ Please keep this manual in a safe place as it will not be distributed separately to users.
- ⑦ If the name of the distributor is not written or stamped, ask the distributor from whom you purchased the product for proof of the date of purchase and the name of the distributor, and issue a receipt to the distributor. If you do not have such proof, please contact your dealer or the company from which you purchased the product. If you purchased the product from our online store, please be sure to provide proof of the date of purchase, such as an invoice, order number, or a screen shot of your order history.

The Company is solely responsible for the revision and description of this manual. and has the right to reserve the right to print the prospectus without notice.

Some of the pictures in this manual are schematic diagrams for reference only. if the pictures do not match the real thing, the real thing shall prevail.

Thank you for purchasing Marsriva product

## PRODUCT WARRANTY CARD

Product :

Model :

Purchase Date (DD / MM / YY) :

Customer Name :

Telephone Number :

E-mail Address :

Dealer's Name and Address :

Serial Number\* :



This warranty applies only if the product was newly manufactured on the date of purchase and not sold as used, refurbished, or manufacturing seconds. Please keep the proof of purchase and this warranty card for future service requests.

### IMPORTANT!

Please store this card in a secured location for future reference.

Marsriva reserves the right to request this card before accepting repair requests.

This does not affect or limit your mandatory statutory rights.

## Marsriva Technology Co., Ltd.

Website: [www.marsriva.com](http://www.marsriva.com)

E-mail: [support@marsriva.com](mailto:support@marsriva.com)

Made in China



Specifications are subject to change without notice, all product drawings are for reference only.