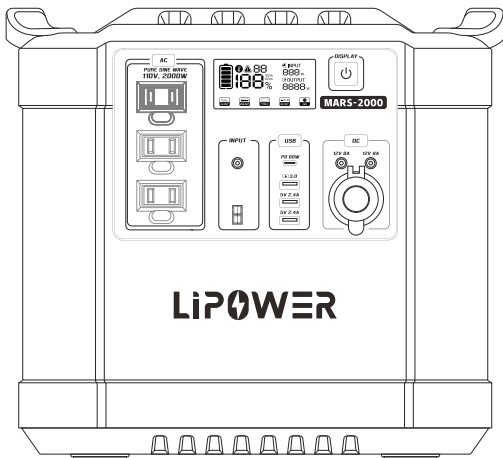


# LiPOWER

## User Manual



MARS-2000



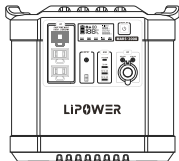
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# PACKING LIST

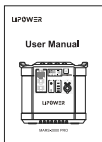
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Missing Parts?

Contact us at [support@lipowershop.com](mailto:support@lipowershop.com) for a replacement.



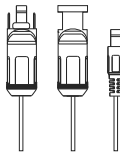
1 x MARS-2000



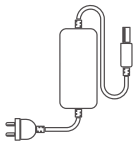
1 x User Manual



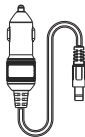
1 x Accessories Bag



1 x DC-MC4 Powerpole  
Connector



1 x AC Charging  
Adapter



1 x Car Charging  
Cable

## Product Inspection

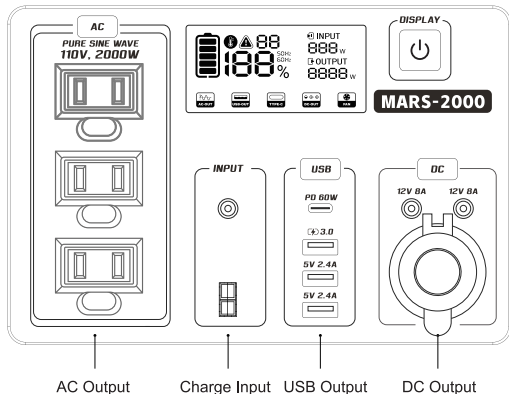
- Please kindly check if the one you get is the same as the one you ordered.
- Please kindly check the product first to see if there is damage or cracks.
- Please kindly test the power station to see if it can input or output well.

\*Note: Charge first- before using your new MARS-2000, plug it into a suitable power outlet until it is fully charged.

# INPUT & OUTPUT PORTS

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Total Ports Power-HI: 2000W



**Power-HI when using each ports alone:**

### Charge Input:

DC 5521: 200W Max  
Anderson: 200W Max (solar)  
TYPE-C: PD 60W

### USB Output:

USB A: 12W Max  
USB QC 3.0: 18W Max  
TYPE-C: PD 60W

### DC Output:

Cigarette Output: 96W Max  
DC Output: 96W Max

### AC Output:

Each of them: 2000W rated,  
4000W peak.

# SPENCIFICATIONS



**Capacity**

1460Wh/455,000mAh



**Weight & Size**

20KG  
L320\*W230\*H330mm  
(44lb / 13\*9\*12 inch)



**DC Input**

25.5V = 8A  
(Support 18-30V)



**Anderson Input**

25.5V = 8A  
(Support 18-30V)



**3\*AC Output**

110V, 60Hz/50Hz



**Cigarette Output**

12V/8A Max



**2\*DC Output**

12V/8A Max



**USB A Output**

5V/2.4A



**QC 3.0 Output**

5V/3A  
9V/2A  
12V/1.5A



**Type-C Port**

**\*Input & Output**  
PD60W, 5V/3A, 9V/3A  
12V/3A, 15V/3A, 20V/3A



**Battery**

LiFePO4



**Lifecycles**

≥ 2000



**Operating Temperature**

-4 F ~ 167 F



**Recharging Temperature**

32 F ~ 104 F



**Protection Circuit**

Short Circuit Protection  
Over Current Protection  
Over Power Protection







**Protection Circuit**

Over Discharge Protection  
Over Charge Protection  
Over Temperature Protection

# HOW TO RECHARGE MARS-2000

## Recharge Time

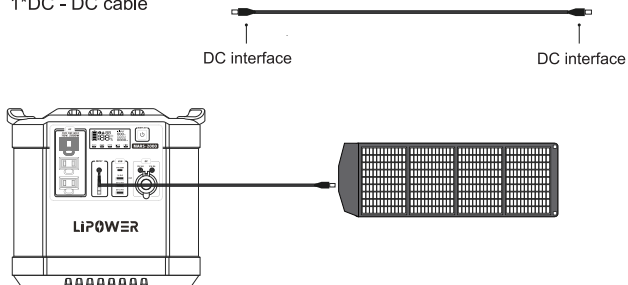
 Wall Outlet	 Car Outlet
6 ~ 10 Hours	21 ~ 30 Hours
 1*APOLLE 100 (Optional)	 2*APOLLE 100 (Optional)
21 ~ 30 Hours (depending on weather)	9 ~ 12 Hours (depending on weather)

## How to Charge MARS-2000 with APOLLE 100 Solar Panel

### MARS-2000 & APOLLE 100 \*1

**DC input:** Find the DC-DC cable on the back of APOLLE 100; Connect APOLLE 100 with the DC input of MARS-2000.

#### A. 1\*DC - DC cable



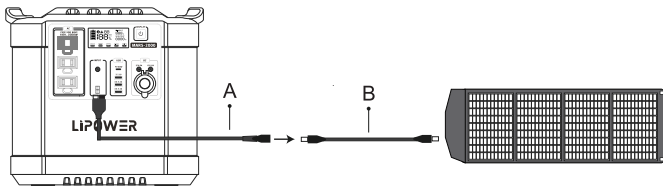
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**Anderson input:** Find the Anderson-DC(female) cable and DC-DC cable on the back of APOLLE 100, connect them together to bridge APOLLE 100 and the Anderson input of MARS-2000.

A. Anderson cable - 1\*DC(female)



B. 1\*DC-DC cable



## MARS-2000 & APOLLE 100\*2

- Step 1. Find the DC-DC cable and DC(female)-Anderson cable on each back of APOLLE 100, and connect them together.
- Step 2. Connect two of the APOLLE 100 with the Y parallel cable (2\*Anderson interface-1\*Anderson interface).
- Step 3. Connect the Anderson joint interface to the Anderson input of MARS-2000.

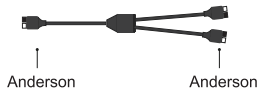


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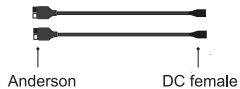
## MARS-2000 & APOLLE 100\*2

You will need 5 cables (included in the package):

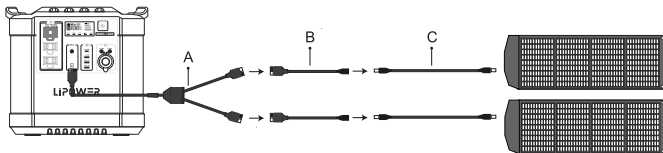
A. 1\*Anderson Y paraller cable



B. 2\*DC(female)-Anderson cables







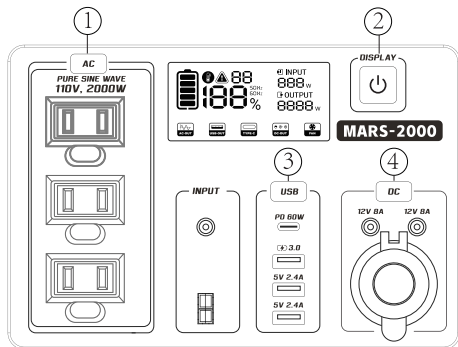
C. 2\*DC-DC cables



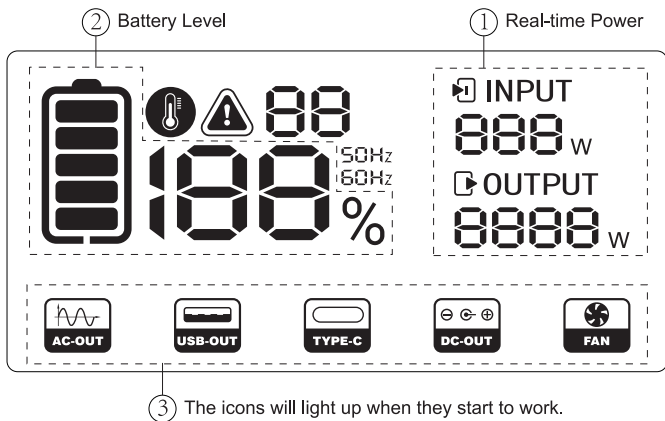
# HOW TO USE MARS-2000

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- ①  - single press to turn on the LCD screen  
- long press 3 seconds to turn off all outputs and LCD screen  
Power Button
- ②  - long press 2 seconds to start using AC Output  
- fast press 5 times to transform between 50Hz and 60Hz  
AC Button
- ③  - single press to start using USB and Type-C ports  
- single press to turn off all USB ports  
USB Button
- ④  - single press to start using DC and Car ports  
- single press to turn off all DC ports  
DC Button



## LCD Screen



**50Hz** The icon will light up when Circuit Frequency is switched manually.  
**60Hz** \* fast press 5 times to transform between 50Hz and 60Hz.
















It will light up when the temperature of MARS-2000 is over 60°C(140°F) or below -10°C(14°F), please turn off the AC output.



The icon will light up when the power station is faulty and will show the corresponding error code. \*(Please kindly refer to the next page for details)

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## Troubleshooting

 01	USB short circuit or overload protection.
 02	QC3.0 short circuit or overload protection.
 03	DC short circuit or overload protection.
 04	AC short circuit protection.
	Explain: There is potentially a short circuit inside your device or the power station.
	Troubleshooting: Please plug out the devices firstly, press the button to recover the function.
 05	AC overload protection.
	Explain: the loading power of the electrical applications over 2000W.
	Troubleshooting: Press the AC button 3s to recover the function. Choose our models >2000W to fit your devices.
 06	AC inverter over temperature protection.
	Explain: The inverter will automatically cut off the output if the temperature over 80 C (176 F).
 07	Battery over temperature protection when discharging.
	Explain: The output will be cut off when the battery temperature is over 60 C (140 F).
	Troubleshooting: Press the AC button 3s to eliminate it, let the power station. stay for a period of time until temperature down.
 08	Battery low temperature protection when discharging.
	Explain: The output will be cut off when the battery temperature is over -10 C (14 F).
 09	Battery over temperature protection when charging.
 10	Battery low temperature protection when charging.
 11	Charge input over voltage protection.
 12	Battery over voltage protection.
 13	Battery low voltage protection.

# CHARGING TIME FOR YOUR APPLIANCES

## Formula:

$$\frac{\text{The actual working time}}{\text{battery capacity} \times \text{power utilization rate} / \text{actual working power of your devices}}$$

The actual working time

1460Wh \* 0.85 / operating power

battery capacity      power utilization rate      actual working power of your devices

## Note:

Please kindly check if there is an **instant start power** of your device, a starting power may use 3 times the amount of standard operating power to run the application, MARS-2000 won't run those starting power beyond 2000W.



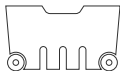
Phone (12Wh)  
≈ 100+ Recharges



Laptop (60Wh)  
≈ 20 + Recharges



32 inch TV (70W)  
≈ 17 + hours



Mini Fridge (60W)  
≈ 20 + hours



Drone (40Wh)  
≈ 30 + Recharges



Coffee Machine (800W)  
≈ 120 + Mins



Fan (50W)  
≈ 24 + Hours



CPAP (20W-50W)  
≈ 4-10 Nights

## FAQ

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### **Q1. What kind of devices will MARS-2000 power?**

A: MARS-2000 will power a device that operate under 2000W.

### **Q2. Does MARS-2000 support pass-through charging?**

A: Yes, but we don't recommend, since it will cause damage to battery life.

### **Q3. Why is the AC not working?**

A: ① please kindly check if you have turned on the AC ports, long press AC button for 2 seconds to turn on the AC ports.

② please kindly check if your device is under 2000W.

③ Contact us at [support@lipowershop.com](mailto:support@lipowershop.com) for a replacement.

### **Q4. Can the MARS-2000 be used as UPS?**

A: No, each part of the outputs are manually controlled to turn on/ off separately.

### **Q5. What kind of solar panel should I use to power MARS-2000?**

A: LIPOWER APOLLE 100 solar panel\*2 makes the best match.

### **Q6. Can I use 3 or 4 LIPOWER APOLLE 100 solar panels to faster charge MARS-2000?**

A: No, the max power of solar charge input is 200W, 2\*100W solar panel will work.

### **Q7. Why does the AC adapter get hot when working?**

A: The AC charging adapter generates heat while it is working, the normal temperature of the AC adapter is under 176°F.

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### **Q8. Is the built-in battery replaceable?**

**A:** No, please don't disassemble MARS-2000 and replace the battery, it will damage the unit.

### **Q9. How to protect the battery?**

**A:** ① Please recharge MARS-2000 every 3 month if you don't use it.

② Please recharge MARS-2000 when the power drops below 15%.

## **Product Application Skills**

1) This product is built in high quality original LiFePO<sub>4</sub>, it has no memory effect but high-capacity, and it is durable. However, we still recommend you to apply in the range of 50 ℱ -86 ℱ , so as to obtain the optimal charging capacity.

2) When charging, in order to avoid interference, please stay away from TV, radio and other equipment.

3) If the device has not been used for a long time, please disconnect the cable and store.

4) Some portable devices may need to be set in charge mode to charge, see thecorre-sponding equipment use manual for more information.

5) After starting, if there is no any output, it displays to automatically shut down within 20 seconds, so as to achieve better energy-saving effect.

## ATTENTION

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1) To avoid short-circuiting, keep the unit away from all metal objects (e.g. coins, hair -pins, keys, etc).

2) Do not heat the unit, or dispose of it in fire, water or other liquids. Keep away from high temperatures. Do not expose the unit to direct sunlight.

3) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

4) Children should be supervised to ensure that they do not play with the appliance.

5) The unit may become hot when charging, this is normal. Do not cover the device with towels, clothing and other item.

6) Please deal with scrap products in accordance with the regulations, do not treatment the built-in battery as a household garbage, so as not to cause the explosion and pollution.

7) The product is only used for emergency power station, it can not replace the standard DC or AC power of household appliances or digital products.

8) Your device has and intemal, non-removable, rechargeable battery. Do not attempt to remove the battery, as you may damage the device.



Recharge  
every 3 months



Use original  
or certified cables



Don't expose  
to liquids



Don't disassemble



Avoid dropping



Avoid extreme  
temperatures



# WARRANTY AND SUPPORT

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## Limited Warranty

LIPOWER warrants to the original consumer that LIPOWER products will be free from defects in workmanship and material under normal consumer use during the applicable warranty period identified in the "Warranty Period" section below, subject to the exclusions set forth below. This warranty statement sets forth LIPOWER's total and exclusive warranty obligation. LIPOWER does not authorize any person or third-party to sell our products for us or assume any other responsibility in connection with them.

## Warranty Period

The warranty period for LIPOWER power products is **24 months**. In each case, the warranty period is measured starting on the date of purchase by the original. The sales receipt from the first consumer purchase, or other reasonable documentary proof is required in order to establish the start date of the warranty period.

## Remedy

LIPOWER will replace (at LIPOWER's expense) any LIPOWER products that fail to operate during the applicable warranty period due to defect in workmanship or material. A replacement product assumes the remaining warranty of the original product.

## Limited to Original Consumer

The warranty on LIPOWER's product is limited to the original consumer and is not transferable to any subsequent owner.

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## Exclusions

**LIPOWER's** warranty does not apply to:

- Any product that is misused, abused, modified, damaged by accident, or used for anything other than normal consumer use as authorized in LIPOWER's current product literature.
- Any product purchased through an online auction house.
- Attempted repair by anyone other than an authorized facility.
- **LIPOWER's** warranty does not apply to the battery cell unless the battery cell is fully charged by you within seven days after you purchase the product and at least once every 3 - 4 months thereafter.



MADE IN CHINA

## CUSTOMER SERVICE

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### Unhappy ?

Missing Part

Not the one you ordered

Damaged unit

Does not meet your needs

Not working properly

Unhappy with the performance

### How to Register the Item and Get the Warranty?

1. Go to lipowershop.com: <https://lipowershop.com>
2. Click the "Support", and then choose "Register Product"
3. Fill in the information form, and then submit
4. You will get a 24 month warranty in total when you finished

**Customer Support:** [support@lipowershop.com](mailto:support@lipowershop.com)

