

X-1000

All-In-One Portable Solar Power Station

USER MANUAL

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Congratulations on your X-1000 purchase



PLEASE FULLY CHARGE BEFORE USE!

Contact Us:
support@monteksolar.com
www.monteksolar.com



SAFETY INSTRUCTIONS

Please read these instructions carefully before use to ensure safe usage.



DANGER

Noncompliance may very likely lead to serious injuries¹ or death.

- DO NOT disassemble, repair or modify the unit or the battery.
- DO NOT place the unit close to or in a fire 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.
- Only use the output socket to power external devices. Never connect the output to mains power under any circumstances.
- DO NOT touch the unit or the plug-in points if your hands are wet.
- DO NOT connect any metallic objects to the AC input or output.
- DO NOT rub your eyes if fluid from inside the unit should get in your eyes.
- DO NOT dispose the unit together with household waste.
- DO NOT use any inappropriate power cords.
- DO NOT operate the unit above the specified input voltage.
- DO NOT use the unit if it is not functioning correctly.
- DO NOT move the unit if it is recharging or in use.



WARNING

Noncompliance may lead to serious injuries¹ or death.

- Use and store the unit only in a clean and dry environment. Do not use and store in dusty and wet environment.
- Check the unit prior to every use. DO NOT use the unit if it is damaged, broken.
- DO NOT use the unit if the power cord is damaged or broken.
- Keep the unit away from children. DO NOT let children use the power supply unit.
- Keep this product away from pets.
- DO NOT use or store the unit in an area or environment with high temperature.
- Should fluid from inside the unit come in contact with your skin or clothing, wash the affected areas with tap water.
- In a storm, unplug the power cord from the socket.
- DO NOT charge the unit via power supply systems that operate outside of 100-240V.
- DO NOT place the unit on its side or upside down while in use or storage.
- DO NOT use accessories for other usage.



CAUTION

Noncompliance may lead to injuries² and / or property damage³.

- If rust, peculiar odors, overheating or other abnormal circumstances are observed, stop using the unit immediately and contact dealer or our customer service center.
- The unit complies with all legal requirements for transport of dangerous goods.
- Make sure that the unit is properly secured when transporting it in a motor vehicle.
- Only charge, use and store the unit within an ambient temperature according to the specifications.
- Switch the unit off immediately if it has accidentally fallen, was dropped or was exposed to vibrations.
- Carefully read the instructions for the electric devices that you intend to connect to your power supply unit.
- Make sure that the device you are connecting is switched off before you connect it.

1. Serious injuries include blindness, burns, electric shock, fractures, poisoning, etc., which can lead to complications, hospitalization or permanent treatment.
2. Injuries include burns, electric shock, etc., which do not lead to hospitalization or permanent treatment.
3. Property damage includes buildings, belongings and pets, etc.



WARNING

	Only use within the specified temperatures.
	Avoid serious damage and drops.
	Warranty void if disassembled
	Do not submerge in water
	Please dispose of all components in accordance with regulations
	Always use supplied/certified charging cables
	To extend and preserve the battery life, please use and recharge at least once every 4 months.
	Not permitted on aircraft

DISCLAIMER

We will not be held responsible or liable for any damage incurred through acts of nature, use outside of the recommended guidelines and specifications, accidental damage, flood and serious water damage.

Intentional misuse and/or abuse of the product in any way outside of the recommended guidelines will immediately invalidate your warranty.

In the event of failure, do not attempt to repair any part of this product. Contact our customer service immediately if still within your product warranty period.

Any use outside of that is recommended for this product will render the warranty invalid.

Intended Use:
The X-1000 is designed as a portable power access point and is primarily made available for low power devices of 1000W or less.

It is not intended for use with high power devices and should only be used with devices requiring 1000 watts or less to preserve the lifetime of the X-1000.

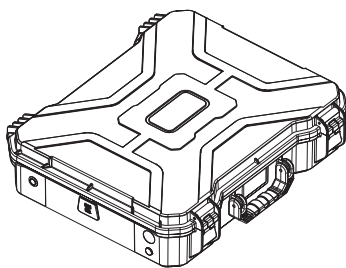


This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

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



WHAT'S IN THE BOX



Montek X-1000



MC4 Solar
Charger
Cable



Car
Charger
Cable

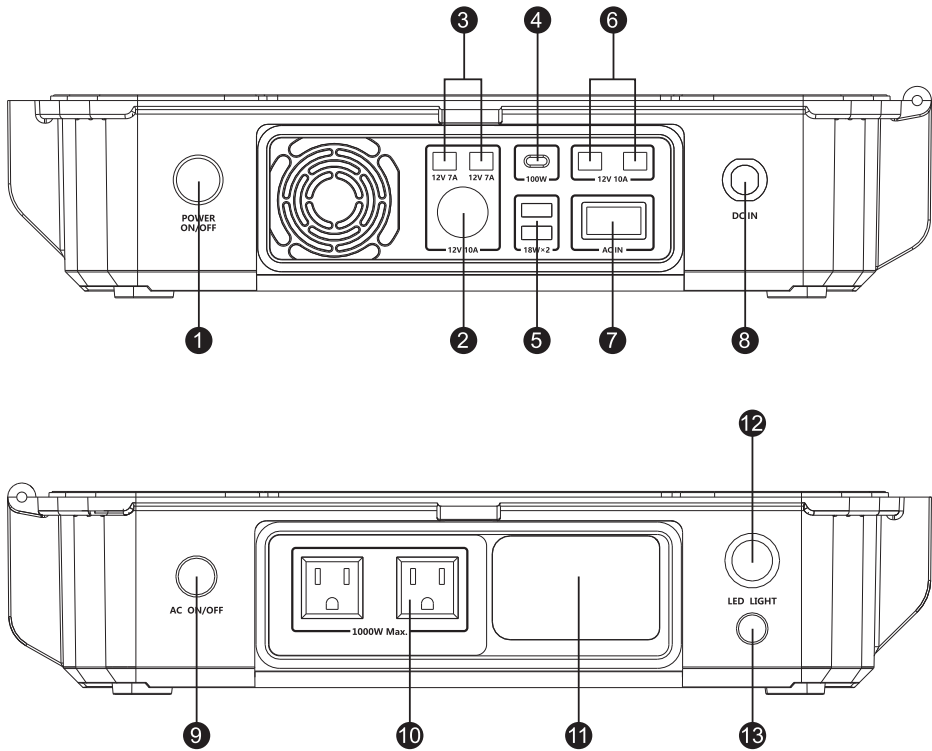


AC
Charger
Cable



User Manual

FEATURES



1. Power ON/OFF

2. Cigarette lighter 12V 10A

3. 12V 7A 5.5×2.1mm ports

4. USB-C PD3.0 100W

5. USB-A QC3.0 18W×2
6. 12V 10A 5.5×2.5mm ports

7. 100-240V 210W AC input

8. DC IN 12–70V 8–12A 360W Max

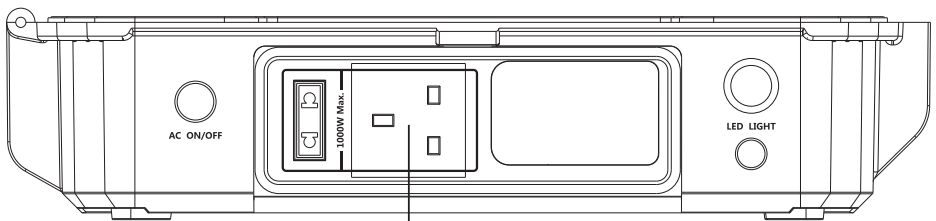
9. AC ON/OFF

10. 120V 60Hz 1000W AC output
11. Space for charging cable

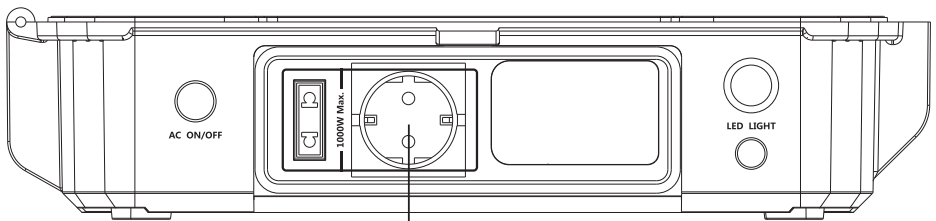
12. 3W LED light

13. LED light button

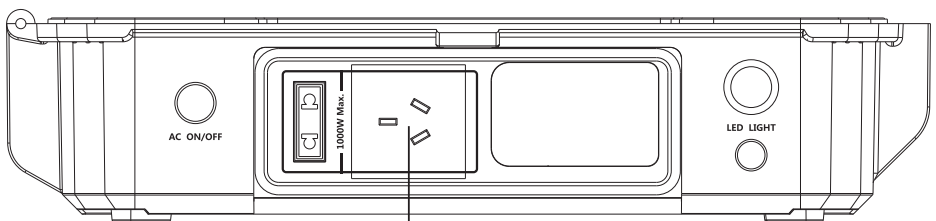




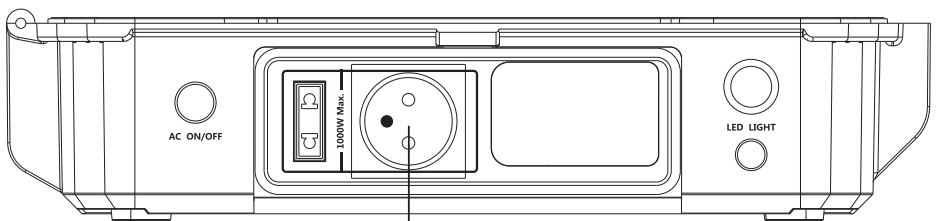
240V 50Hz 1000W AC output



230V 50Hz 1000W AC output



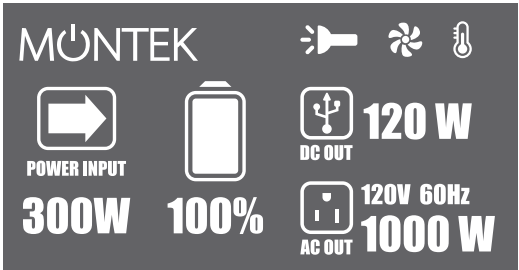
240V 50Hz 1000W AC output



230V 50Hz 1000W AC output



TFT DISPLAY



Press the main power button, it will turn on the TFT screen. From the screen, you can check the battery capacity, power input, DC output, AC voltage & frequency, output, inside temperature, cooling fan, LED light.

CHARGING

DC OUTPUT

Press the main power button to turn on DC outputs. Please ensure the total DC power consumption is less than 120W, or it will automatically shut off, need to restart the power station.



AC OUTPUT

Press AC ON/OFF button while main power is ON. Please ensure the total power consumption is less than 1000W, or it will automatically shut off, need to restart the power station.



LED FLASHLIGHT

Press the LED light button to turn on the 3W light while main power is ON. A second press will turn the light to SOS mode. A third press on the button will turn off the light.

RECHARGING

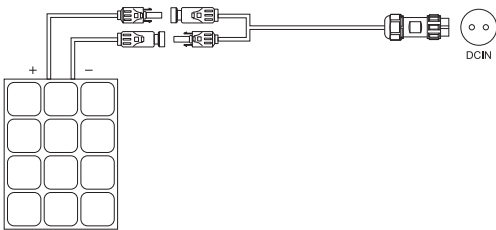
Before use or storage, plug your X-1000 into the wall until it is fully charged. If the display shows less than 20% capacity, plug it into a power source, like an AC outlet or a solar panel, as soon as possible. There are many ways to recharge your X-1000:

Solar charging

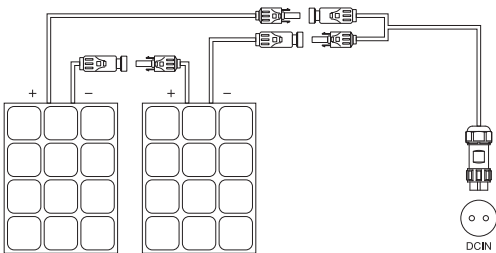
The solar charging input is MPPT 12-70V 12A 360W Max.



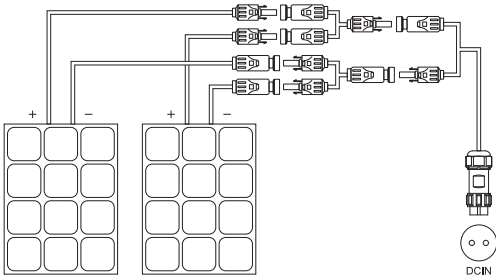
If using one 18V or 36V solar panel, just connect the solar panel to DC IN directly using the included MC4 solar charging cable.



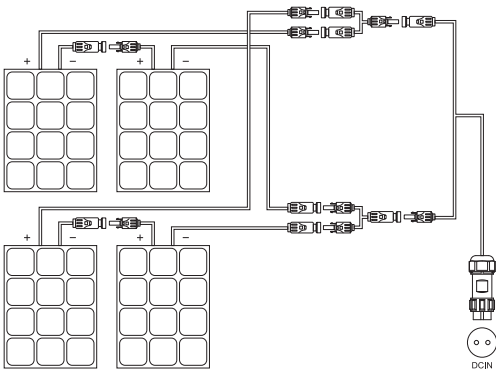
If using two 18V solar panels, connect the solar panels in series first, then connect to DC IN using the MC4 solar charging cable.



If using two 36V solar panels, connect the solar panels in parallel, then connect to DC IN using the MC4 solar charging cable.



If using four 18V solar panels, connect two solar panels in series to get 36V array first, then connect two PV arrays in parallel to DC IN using the MC4 solar charging cable.



AC charging

The AC charging input is CC/CV mode, 100-240V AC input, battery charging current is about 7.5A, Max. 210-220W. It takes about 6 hours to fully charge X-1000.



Car charging

The Car charging input is 12V 10A Max. It takes about 9 hours to fully charge X-1000. (Only recharge the generator by car when the engine is ON, or it may damage the car battery.)



FAQs

1. What kind of the battery chemistry is used? What is the battery life cycle?

X-1000 uses 1C charge/3C discharge Electric Vehicle Li-ion NCM polymer battery cell, it has 2000 cycles @ 1C charge/discharge to 80% of initial capacity.

2. Can I charge and discharge this simultaneously?

Yes, it supports pass through charging for both AC and DC loads.

3. Could I recharge X-1000 by solar charging and AC charging at the same time?

Yes, you could use solar charging and AC charging to charge X-1000 simultaneously. Total input is about 560W Max.

4. How long does it take to charge X-1000 by solar panel?

It depends on many conditions, like weather, solar panel power, angle, etc. Under good conditions, it takes about 7-8 hours if you use 2*120W solar panel, and 3.5-4 hours if you use 4*120W solar panel.

5. How could I set the AC & DC auto off function?

Turn off the main switch, connect the unit to wall socket with included AC charging cable. Long press AC ON/OFF button for 10 seconds, then you could see the setting interface on the screen. Long press 1 second to choose the item you want to set, short press 0.1 second to set the numerical value.



TECHNICAL SPECIFICATIONS

Battery capacity	1010Wh(25.9V 39Ah)
Battery type	Li-ion NCM polymer
Cycle Life	>2000 cycles@ 1C to 80% of initial capacity
Output Ports	
AC Output	100-120V/220-240V 50/60Hz 1000W, surge 2000W
CIG Output	12V 10A max.
DC Output 1&2 (5 5*2.1mm connector)	12V 7A max.
DC Output 3&4 (5 .5*2.5mm connector)	12V 10A max.
USB-C	5-9-12-15V 3A, 20V 5A
USB-A	5V 3A, 9V 2A, 12V 1.5A
LED light	3W with SOS mode
Input Ports	
DC IN	12-70V 12A 360W Max.
AC IN	100-240V 210W
General	
Operating Temperature	-20°C-40°C
Recharging Temperature	0°C-40°C
Storage Temperature	0°C-40°C
Cooling	Fan cooled
Weight	11.5kg
Dimension	475*406*120mm
Warranty	2 years



WARRANTY

Limited Warranty

We warrant to the original consumer purchaser that the product 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 our total and exclusive warranty obligation. We will not assume, nor authorize any person to assume for us, any other liability in connection with the sale of our products.

Warranty Period

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

Remedy

We will repair or replace (at our option) any product that fails to operate during the applicable warranty period due to defect in workmanship or material. If a valid claim is made during the applicable period, we will either

- (1) Replace the product, or
- (2) Exchange the product with a product that is of equal value. A repair, or replacement product will only be authorized if within the appropriate warranty period and having followed all manufacturer's operating instructions. We will not be responsible if any of our products have been:
 - (a) Operated or used outside of manufacturer's instructions
 - (b) Been altered or adapted in any way
 - (c) Been tampered with or had any factory seals broken

Limited to Original Purchaser

Our product warranties are limited to the original purchaser/consumer and may not be passed on to a subsequent owner.

Exclusions

Our warranties do not apply to any product that has been misused, modified, damaged by an accident, flood or water damage, or for any use outside of those recommended in this user manual and/or the manufacturer's specifications.

Warranty Issues

To request a warranty replacement or repair, contact our customer service team.

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