



PPS-500WE portable Power Station Instruction Manual



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General Warning

- This device contains electronic components which operate via a power source (power supply). Do not let children use the device while unattended. Only use the device as described in the manual, or you run the risk of an electric shock.
- Children should only use the device under adult supervision. Keep packaging material, like plastic bags and rubber bands, out of the reach of children, as they pose a choking hazard.
- Do not short-circuit the device or batteries, or throw them into a fire. Excessive heat or improper handling could trigger a short-circuit, a fire or even an explosion.
- Do not disassemble the device. In the event of a defect, please contact your dealer. The dealer will contact the Service Centre and can send the device in to be repaired, if necessary.
- Do not expose the device to high temperatures and protect it from contact with water and high humidity in order to prevent leakage or explosion of the integrated battery!
- Never bend, pinch or pull the power and connecting cables, extensions and adapters. Protect the cables from sharp edges and heat.
- Before operating, check the device, cables and connections for damage. Never use a damaged unit or a unit with damaged power cables. Damaged parts must be exchanged immediately by an authorised service centre.
- Before charging, be sure to read about the correct operating voltage in the operating manual of your end device. No guarantee is provided for damages due to an incorrect voltage selection.

ABOUT THE UNIT

In the event of a power failure or if you need to charge while travelling, you can temporarily charge your electrical or digital products with this unit. This unit is equipped with a high-quality lithium battery and supports USB, DC and AC output. Before using this unit, please read the instruction manual carefully and keep it for reference.

ATTENTION!

This manual is intended to help you use the product correctly; it is not a description of the hardware and software configuration of the product. For the product configuration, please refer to the contract for this product (if available) or contact the seller who distributes the product. The pictures in this manual are for reference only.

THE UNIT PROVIDES TRUE SINE WAVE OUTPUT

The unit's built-in inverter generates a „true sine wave” AC output waveform. This waveform has the same characteristics as the sine waveform of the mains current. It can provide the cleanest, most stable AC voltage for your electrical device. While conventional inverters output modified sine waves, which can cause instability in electrical appliances such as an electric fan, it will even cause the electrical appliance to produce some noise. Appliances such as refrigerators, microwaves and compressors that use AC motors, as well as some sensitive medical equipment, are better served by a true sine wave inverter. **This product is used for emergency purposes only, it cannot replace normal AC power, for long-term use.**

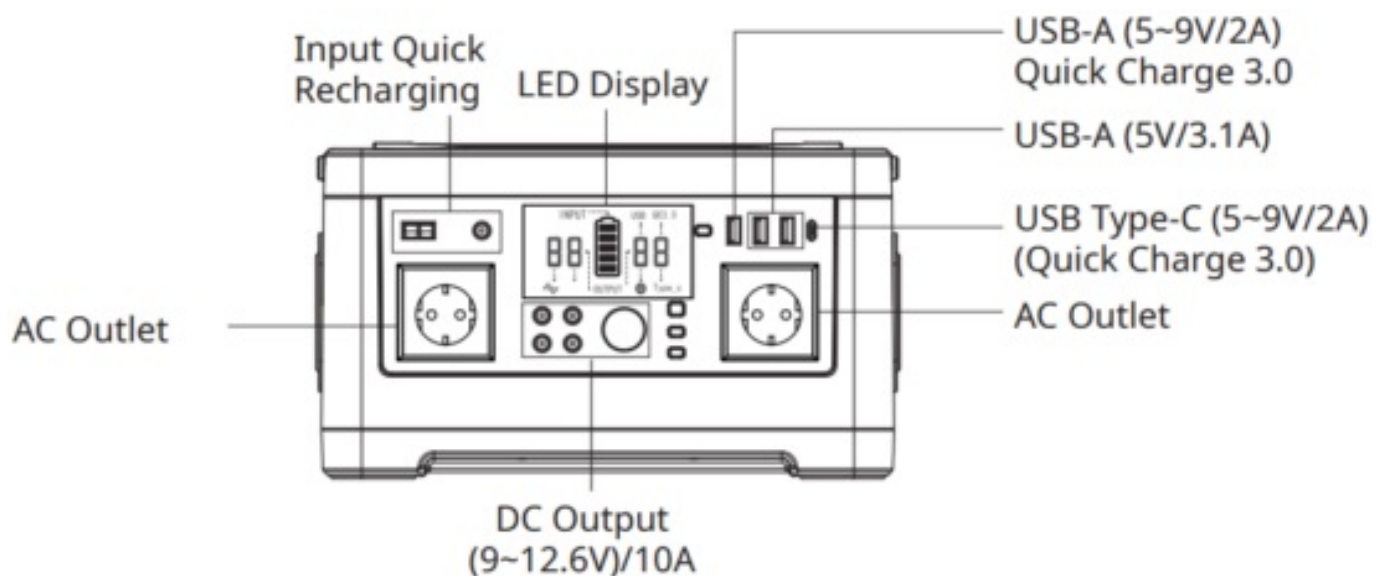
Attention: This user manual is universal for portable solar generator AC output range between 230V/50Hz. Actual product specification, actual AC outlets will be different according to different countries, areas or customers. Please refer to the actual product before you use the product.

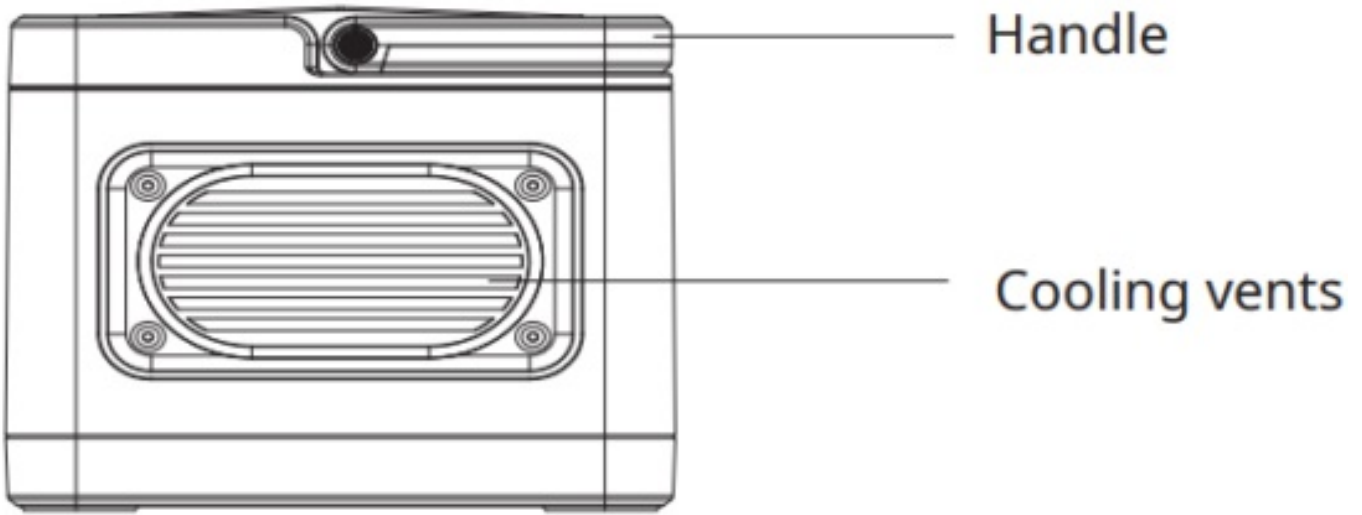
PRODUCT PARAMETERS

Capacity	520Wh, 11.1V(equivalent 140400mAh, 3.7V)
Dimensions(LxWxH)	306x200x176mm
Weight	about 6.5kg
Buil-in Battery	High Quality Lithium ion Batteries
Input Recharging	Adapter:DC15V/6A Solar Panel Charging: DC13V~22V/6A Max
Complete charging time	DC15V/6A : 8~10 hours
USB Output	1X USB-A (5V~9V/2A) Qualcomm QuickCharge 3.0 1X USB Type-C (5V~9V/2A) Qualcomm QuickCharge 3.0 2 X USB-A (5V/3.1 A)
DC Output	1x Cigarette Lighter Adapter 4x 5521 DC Output:9~12.6V/10A(12A Max total)
AC Power	AC Continuous Power Output: 230V 50HZ, 500W (true sine wave)
Power Indicator	LED Display
Operation temperature	-10°C-40°C
Lifecycle	>1000 times
Scope of delivery	1x Power Station 500W 1x Power cord for EU 1x Power cord for UK 1x Car plug adapter 12V for charging the Power Station 2x Adapter Cables: 5.5 / 2.1 mm to cigarette lighter socket DC 2x UK-EU plug adapter for AC output sockets 1x User manual

- There may be some differences on different spare parts. Please adhere to the actual product instead.

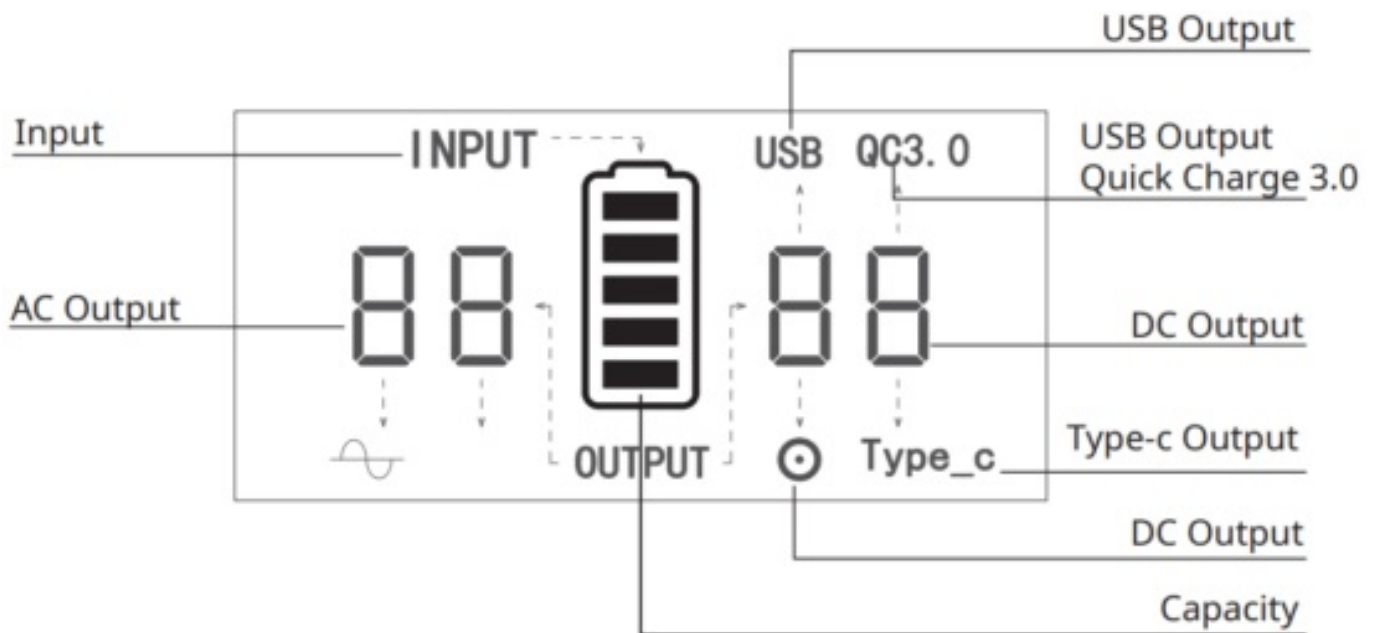
PRODUCT DESCRIPTION





AC Outlet, AC output voltage and frequency will be different according to different countries or areas. Please refer to the actual product before using.

[LED Display]

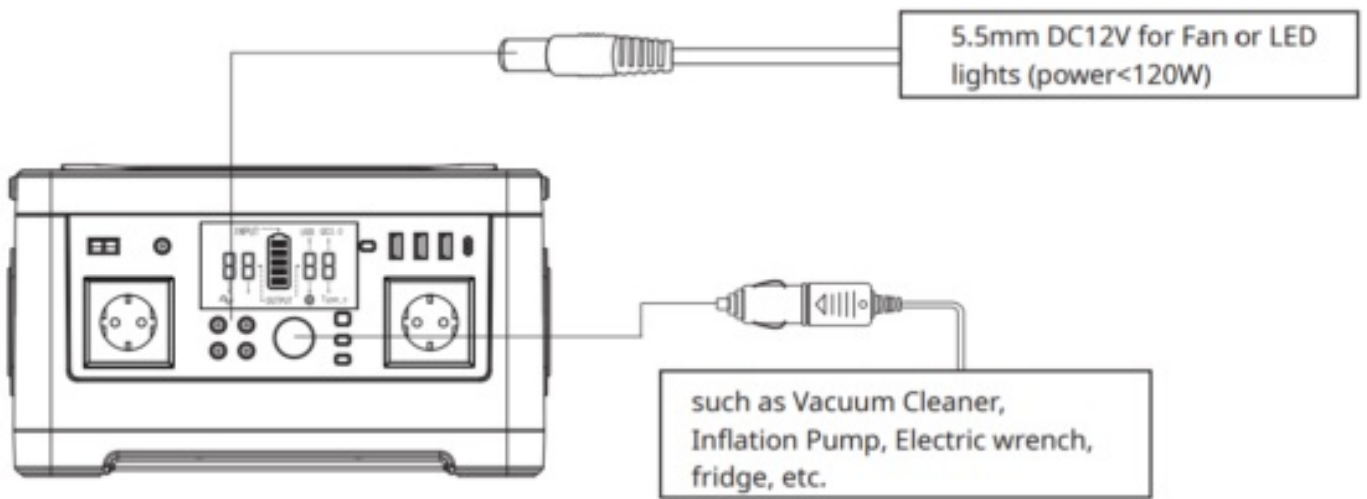


PRODUCT INSTRUCTION

How to provide power for DC12V appliances (such as head lamp, fan) with this product?

The 5.5mm 12V DC output is plug and play. Plug your appliances to the DC output port to gain power. DC output rated power<120W, Max output<145W. Notice: Please confirm whether your DC12V appliance supports charging with 5.5mm DC header interface (the diameter of the DC Port of the Product is: 5.5mm), otherwise it is unable to connect with the DC Output, you can consult the electrical manufacturer, buy the corresponding adapter and connect with it.

[Front]



Note: The 12V DC output voltage is in the range between 9V~12.6V, the maximum output current is 12A. The DC output voltage decreases while the battery capacity decreases due to the chemical properties of the battery. If your unit does not have built-in input voltage stabilisation function, it may shut down when the input voltage is too low, please disconnect your unit in time. And please charge your unit in time.

Protection Mode: Short-circuit/Overpower Protection: If the DC output is short-circuited or overpowered (Load power>120W), the unit will shut down to protect itself. Please press the DC switch again to resume use.

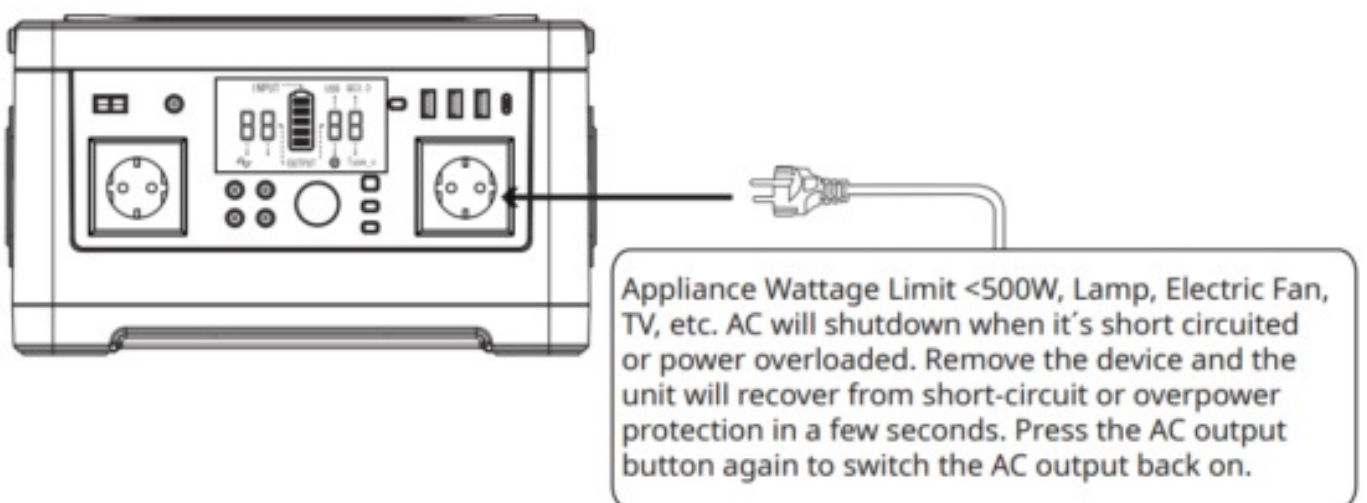
Errors and technical changes reserved. Manual_3810020_Power-Station-500W_en_BRESSER_v062021

How to provide power for AC appliances with this product?

Connect the plug of the power cord of the electrical appliance to the AC socket of the Power Station. Switch on the Power Station with the POWER AC button and the Power Station will start supplying power to your devices.

WARNING! The mains sockets, mains voltage and frequency vary depending on the country; please check carefully that the product specifications match the appliance specifications before use, otherwise dangerous situations may occur.

[Left]



Warning: The plug standard and voltage differ from country to country. Please make sure that the plug standard matches your appliance before using it to avoid dangerous situations.

Please turn off the AC switch in time to save energy when you do not need the AC output function.

Protection Mode

Short circuit, overload protection:

In case of short circuit or overload on the AC output (more than 600 W), the AC output function will be stopped, please remove the load and press the AC button to reactivate.

In some electrical appliances, such as refrigerators, ice machines, laser printers, etc., a power peak occurs at start-up or during operation that lasts only for a very short time but is up to 1000 W or more. In this situation, the overload protection can be activated. Please remove the unit and press the AC button to reactivate.

How to use the Power Station to power digital USB devices?

Connect the digital device to the USB interface of the Power Station, then press the „USB” button.

Note: For some smart devices, such as a Bluetooth headset or LED lights, the charging current is very low, below 150 mA, which is too low to be detected by the Power Station. These smart devices cannot receive power from the Power Station.

Quick Charge 3.0 Technology: The Power Station supports Quick Charge 3.0 output technology and 5V-9V/2A max output and can be used for smartphones and tablets that are compatible with Qualcomm Quick Charge 3.0 technology. For the exact charging voltage and current when charging these devices, please contact the device manufacturer for more details.

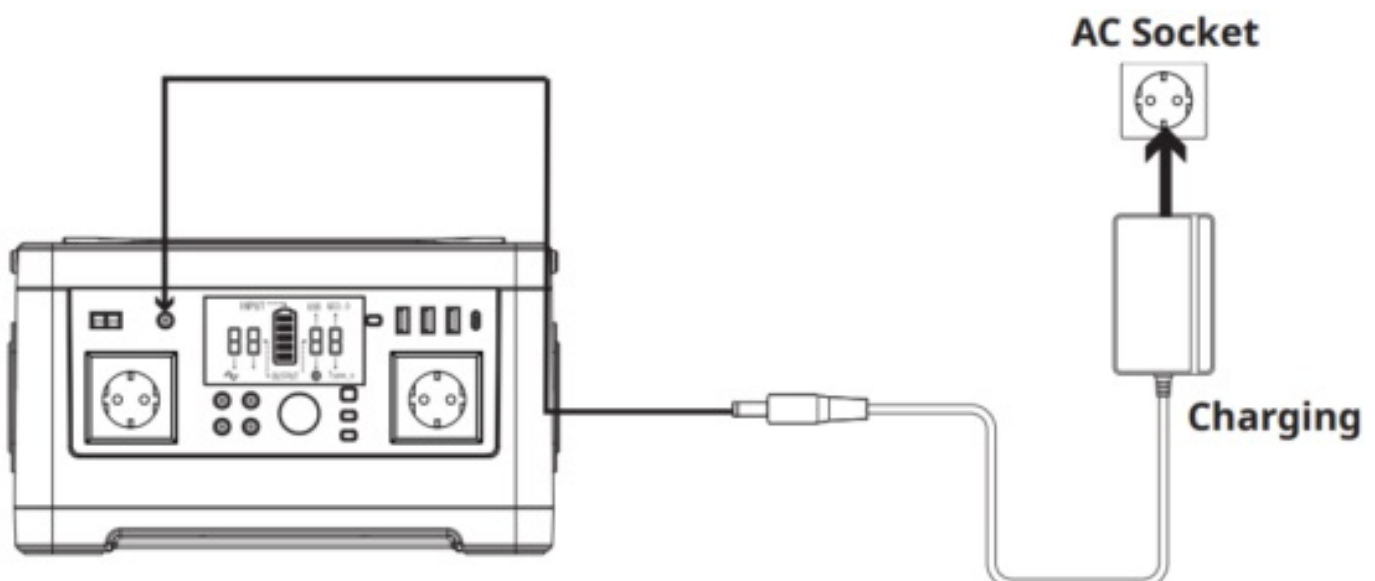
Note: When the Power Station is in overloaded or short-circuit protection, please remove the load and USB auto activation.

How to charge the Power Station?

a. Charge through AC Wall Charger

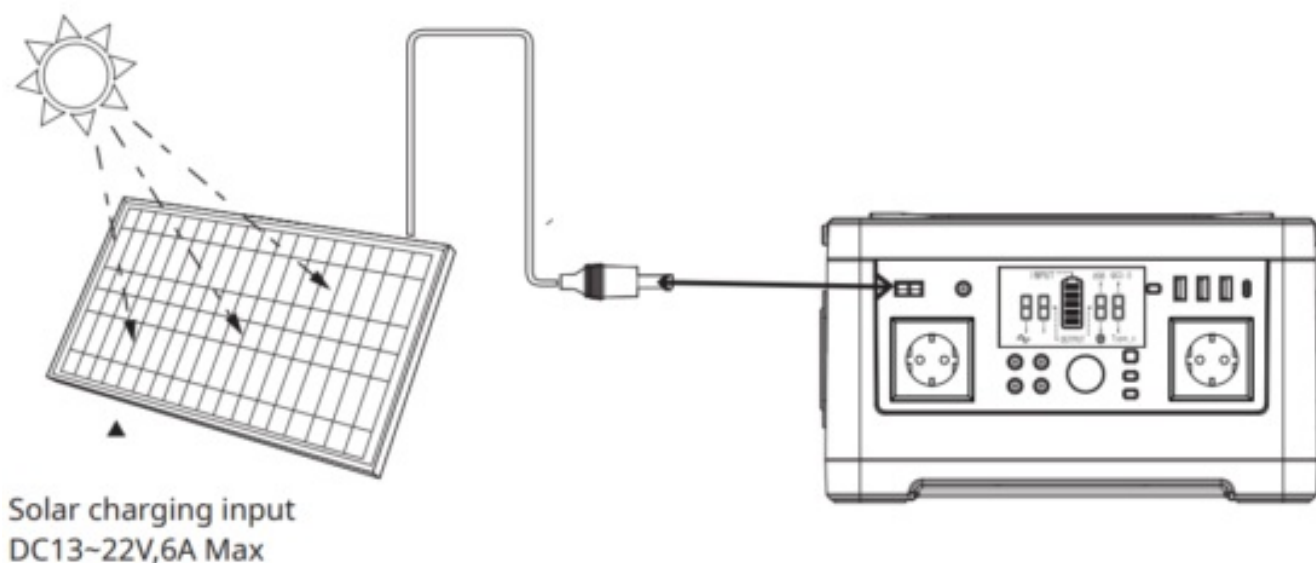
Connect the Power Station to any wall socket using the supplied AC wall charger to charge the unit. You know the unit is charging when the blue LED battery indicators flash. The unit is fully charged when all battery indicators stop flashing and remain constant. After the unit is fully charged, please remove the mains charger in time.

[Right]



b. Charging via solar panel

1. Place your solar module in a location where it receives as much direct sunlight as possible.
2. Plug the output of the solar module into the input of the Power Station to start charging. You know the Power Station is charging when the blue LED battery indicator lights up and flashes. The Power Station is fully charged when all battery indicators stop flashing and remain constant.



c. Charge from your car with a 12V cigarette lighter.

Connect the Power Station to a 12V cigarette lighter (car socket) in your car using the car charger supplied. You know the Power Station is charging when the blue LED battery indicator lights up and flashes. The Power Station is fully charged when all battery indicators stop flashing and remain constant. **Attention: To avoid car battery power loss. Charging this Power Station through your car cigarette lighter is only available when your car engine is started.**

SECURITY AND MAINTENANCE

- a) Do not short-circuit the unit. To avoid short-circuiting, keep the unit away from all metal objects (e.g. coins, hairpins, keys, etc.).
- b) 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.
- c) Keep away from high humidity, dusty places.
- d) Do not disassemble or reassemble this unit.
- e) In order to extend the life of the unit (lithium battery), do not drop, place heavy objects on, or allow strong impact to this unit.
- d) 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.
- g) Children should be supervised to ensure that they do not play with the appliance.
- h) Do not cover the device with towels, clothing or other items.
- i) The unit may become hot when charging. This is normal. Use caution when handling.
- j) Do not charge the unit over the required time.
- k) Disconnect the unit when fully charged.
- l) Use the unit properly to avoid electronic shock.
- m) Please deal with scrap products in accordance with the regulations, do not treat the built-in battery as a household garbage, so as not to cause an explosion and pollution.
- n) The product is only used for emergency situations, it cannot replace the standard DC or AC **power** of household appliances or digital products.

PRODUCT APPLICATION SKILLS

- a) This product consists of a high-quality lithium-ion battery, has no memory effect but a high capacity and is long-

lasting. Nevertheless, we recommend that you use it in the range of 10 °C~30°C to maintain optimum charging capacity.

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

c) If the unit has not been used for a long time, please disconnect the cable and store it.

d) Some portable devices may need to be set in charge mode to charge, see the corresponding equipment user manual for more information.

e) In order to extend the life of the lithium battery it is best to charge within 3 months, and charge at least once within 6 months.

COLD WEATHER USAGE

Cold temperatures (below freezing) can affect the unit's battery capacity due to chemical characteristics of the battery. If you'll be living off-grid in sub-zero conditions, we recommend you keep your unit in an insulated cooler, and connected to a power source (solar panels). The natural heat generated by the unit contained in an insulated cooler will keep battery capacity at its highest.

BATTERY INFORMATION

Your device has an internal, non-removable, rechargeable battery. Do not attempt to remove the battery, as you may damage the device. The battery can be charged and discharged over 1000 times, but it will eventually wear out.

EC DECLARATION OF CONFORMITY



Bresser GmbH has issued a „Declaration of Conformity” in accordance with applicable guidelines and corresponding standards. The full text of the EU declaration of conformity is available at the following internet address: www.bresser.de/download/3810020/CE/3810020_CE.pdf

UKCA Declaration of Conformity



Bresser UK Ltd. has issued a „Declaration of Conformity” in accordance with applicable guidelines and corresponding standards. The full text of the UKCA declaration of conformity is available at the following internet address: www.bresser.de/download/3810020/UKCA/3810020_UKCA.pdf

Bresser UK Ltd. · Suite 3G, Eden House, Enterprise Way, Edenbridge, Kent TN8 6Hf, Great Britain

NOTES ON CLEANING



Before cleaning the device, disconnect it from the power supply (remove plug or remove batteries)! Only use a dry cloth to clean the exterior of the device. To avoid damaging the electronics, do not use any cleaning fluid. Protect the device from dust and moisture.

DISPOSAL



Dispose of the packaging materials properly, according to their type, such as paper or cardboard. Contact your local waste-disposal service or environmental authority for information on the proper disposal.



Do not dispose of electronic devices in the household garbage! As per Directive 2002/96/EC of the European Parliament on waste electrical and electronic equipment and its adaptation into German law, used electronic devices must be collected separately and recycled in an environmentally friendly manner.



In accordance with the regulations concerning batteries and rechargeable batteries, disposing of them in the normal household waste is explicitly forbidden. Please make sure to dispose of your used batteries as required by law — at a local collection point or in the retail market. Disposal in domestic waste violates the Battery Directive. Batteries that contain toxins are marked with a sign and a chemical symbol. „Cd” = cadmium, „Hg” = mercury,



Cd¹



Hg²



Pb³

- 1 battery contains cadmium
- 2 battery contains mercury
- 3 battery contains lead

WARRANTY & SERVICE

The regular guarantee period is 2 years and begins on the day of purchase. You can consult the full guarantee terms and details of our services.