

K&S BASIC

SIMPLE ENERGY

PORTABLE POWER STATION

KSB 2400PS

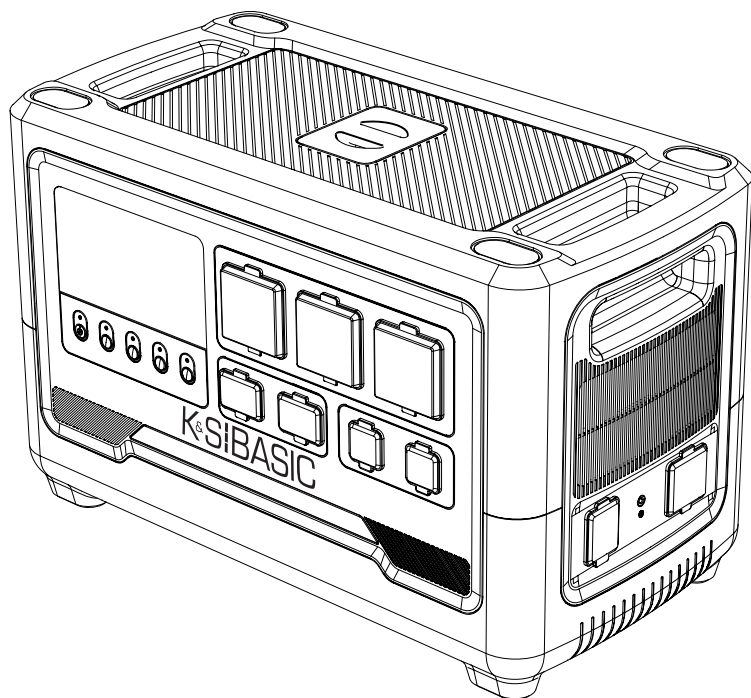


Fig. 1

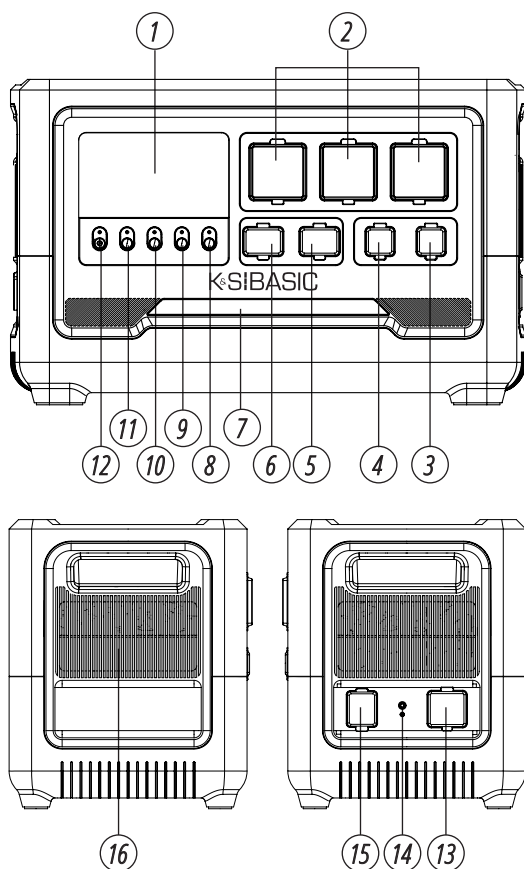


Fig. 2

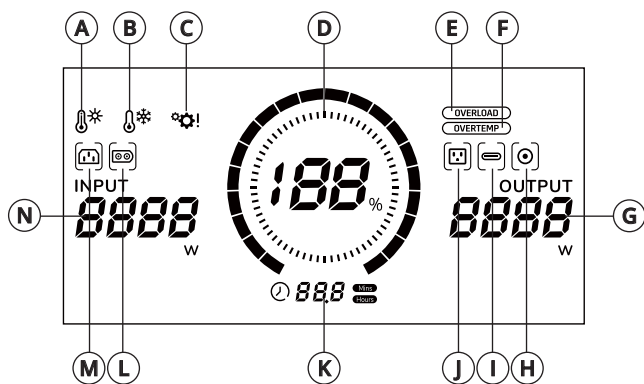


Fig. 3

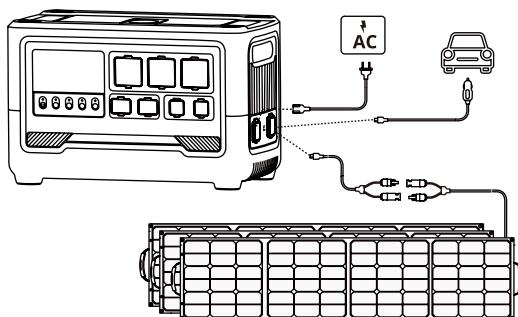


Fig. 4

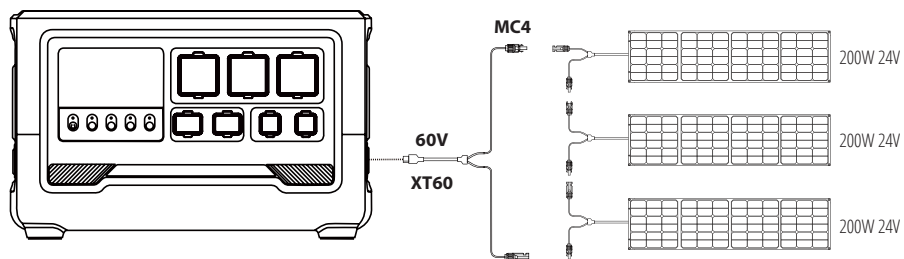


Fig. 5

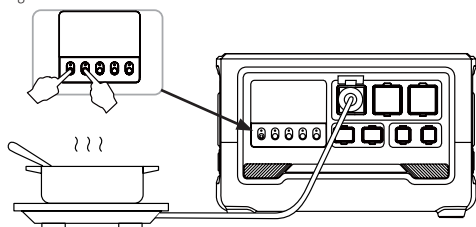


Fig. 6

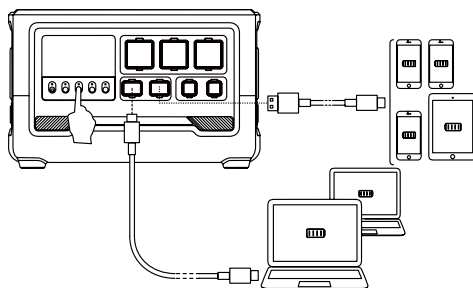
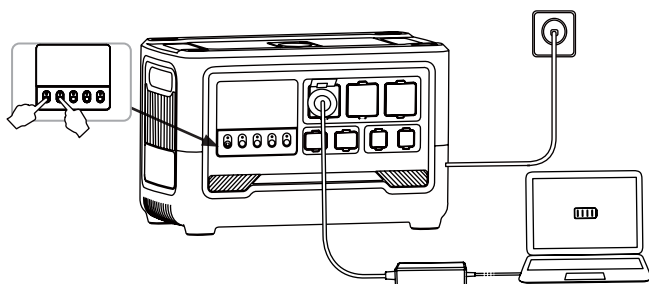


Fig. 7





INTRODUCTION

Thank you for choosing **K&S Basic®** products. This manual provides a brief description of safety requirements, setup procedures, and operating instructions. More information is available in the support section at:

konner-sohnen.com/pages/instructions

You can also download the manual by scanning the QR code or by visiting the official importer's website at **www.konner-sohnen.com**



| Please, read this manual before use!

The manufacturer reserves the right to make changes that may not be reflected in this manual, including:

- The manufacturer reserves the right to make changes in the product design, configuration and construction.
- The images and drawings in this manual are for reference only and may differ from the actual components and inscriptions on the products.

Contact information for technical support is provided on the official website. All information in this manual is correct to the best of our knowledge at the time of publication. The current list of service centers can be found on the official importer's website at **www.konner-sohnen.com**

⚠ ATTENTION – DANGER! Failure to follow the recommendations marked with this sign may lead to serious injury or death of the operator or third parties.

⚠ IMPORTANT! Useful information while operating the machine.



SAFETY INFORMATION

⚠ ATTENTION – DANGER!

- **Please keep dry and stay away from fire.**
- **Do not disassemble, puncture or squeeze the portable power station.**
- **Please recycle and dispose of the product in accordance with local laws and regulations.**
- **Please hand it over to a professional recycling company to dispose this portable power station.**
- **Children and the disabled please use this product with guardian.**
- Read the instruction manual before using this product.
- To reduce the risk of injury, close supervision is required when using this product near children.
- Do not put your fingers, palms or any part of your body into the product.
- Use of unrecommended accessories may result in fire, electric shock or personal injury.
- Do not use a damaged or modified battery pack.
- Do not use the product with damaged cords, plugs or output cords, as this may result in a short circuit, risk of fire.
- When the product malfunctions, in order to avoid further risks, immediately stop using the product, disconnect all connections, switch off the power supply, and contact the after-sales service provider for advice on how to solve the problem.
- Please charge in a well-ventilated area and do not obstruct the air flow, as this may cause the product to become too hot.
- Under extremely harsh conditions, the battery inside the product may leak, avoid contact with the battery and the liquid; in case of accidental contact, flush with plenty of water; if the liquid comes into contact with your eyes, seek medical help immediately.
- Do not expose the product to sources of ignition or excessive heat.

Battery Safety

- Operating temperature (discharging): -20 °C ~ 45 °C (-4 °F ~ 113 °F).
- Recommended storage temperature: 0°C ~ 35 °C (32 °F ~ 95 °F).
- Charge when battery level drops below 20%. Avoid full discharge.



COMPONENTS OF SET

- 1 × Portable Power Station KSB 2400PS
- 1 × AC Charging Cable
- 1 × User Manual



MAIN OVERVIEW (fig. 1)

1. This product offers a variety of charging options:

Faster AC Charging:

AC Charging: The industry-leading 1800W big power AC input allows you to charge in 1.6 hours. When you are at home, you can use your home AC outlet to connect to the product's AC input to charge the product.

DC charging: You can use your car cigarette lighter or solar panel to charge up to 1200W.

When you are away from the power grid, you can use a solar panel to charge the product via XT60 port. The built-in MPPT (Integrated Maximum Power Point Tracking) charging function will ensure you get the most efficient solar charging.

2. This product is a multi-functional solar generator with multiple ports to support power for a variety of devices, including a fast-charging 140W USB-C output port, 22.5W USB-A output port, 12V regulated DC output port and AC output port.

- | | | |
|---------------------------------|-----------------------|-----------------------|
| 1. LCD display | 8. LED ON/OFF | 14. Ground connection |
| 2. 3 × AC outputs | 9. DC ON/OFF | 15. AC Input |
| 3. Car cigarette lighter socket | 10. USB ON/OFF | 16. Cooling hole |
| 4. XT60 (Female) | 11. AC ON/OFF | |
| 5. 2 × USB-A outputs | 12. Main power switch | |
| 6. 2 × USB-C outputs | 13. XT60 Input | |
| 7. LED Light | | |

LCD Display (fig. 2)

ATTENTION!

- If there is no operation for 3 minutes when the product is working, the screen will automatically turn off and the power indicator enter into “breathing light” mode. Click on any button to light on the screen, and the power indicator enters “ON” mode.
- When the portable power station is turned on, all output ports are off and the unit is not charging. If there is no operation within 10 minutes, the portable power station will be automatically shut down.
- The screen will not turn off the display automatically when there is a protection activation indication or an abnormal alarm. The screen will turn off the backlight automatically after 3 minutes when the fault is removed manually.

Protection indication	(A)		High temperature
	(B)		Low temperature
	(C)		System fault Indicator
Battery Information indication	(D)		Battery capacity
High temperature	(E)		Overload protection
System fault indicator	(F)		Overheat protection
Output indication	(G)		Current output power

	(H)		DC/Car charger output icon
	(I)		USB output icon
	(J)		AC output icon
Remaining time indication	(K)		Remaining discharge/ Battery full time (min, h)
Input indication	(L)		Solar input
	(M)		AC input
	(N)		Current input power



GETTING STARTED

1. Unbox the unit and inspect for any damage.
2. Fully charge using the AC wall charger before first use.
3. Press and hold the main power button to turn on the unit.
4. Individually turn on AC, USB, or DC outputs as needed.
5. Connect devices, starting with low-power appliances.



CHARGING THE POWER STATION

Recommended charging methods (fastest to slowest):

1. **AC Wall Charging** – Fastest method.
2. **Solar Charging** – Use compatible solar panels with MPPT controller.
3. **Car Charging** – Via 12V vehicle socket (engine must be running).

TIPS:

- **Pass-through charging is supported (use while charging).**
- **Optimal charging temperature: 0°C ~ 40°C**

How to charge (fig. 3)

1. Please charge the product before using it.
2. This product has 2 charging input ports: one AC input port and one solar input port, through these 2 ports you can use various charging methods to charge this product.
3. Long press the main power switch for 3 seconds, the host is switched on; after the product selftest is completed, use the AC charging cable to access the AC charging port of the product or use the solar panel to access the XT60 input port of the product, the screen of the product displays the charging power and the status of the charging running light, and the product is undergoing charging.
4. Super Fast Charge: AC Input Port (allows charging at up to 1800W using AC power through the AC Input Port).
5. Solar fast charging: XT60 input port (can be charged with solar panels at up to 1200W through the XT60 input port).
6. On-board charging: XT60 input port (can be charged at up to 12V/10A through the XT60 input port using a car charger to XT60 cable).

Solar Energy Series/Parallel Charging (fig. 4)

The portable power station supports solar panel charging up to 1200W max.

You can purchase solar panels and specialized cable accessories that match the portable power station for a fast solar charging experience.

ATTENTION!

- **The maximum voltage of solar panels that portable power station can support is 60V, and the maximum current is 20A.**
- **It must be charged by solar panels with a voltage lower than 60V.**
- **The input voltage exceeding 60V has the risk of damaging the product.**



USING THE POWER STATION (DISCHARGING)

- Turn on the required output ports.
- Monitor total power consumption on the display.
- Do not exceed the rated continuous wattage.

Runtime Calculation Runtime (hours) = (Battery Capacity in Wh × 0.85) ÷ Device Wattage

UPS Mode For critical devices, connect the power station to wall power and plug devices into the unit for seamless backup power.

Using the AC output function (fig. 5)

Under the condition that the total power does not exceed 2400W, all AC outlets can work at the same time.

1. Make sure the product battery has power, long press the Power ON/OFF button for 3 seconds, and the unit turns on. The total power indicator lights up, the LCD screen is on and enters standby mode.
2. Plug in the AC appliance.
3. Press the AC ON/OFF button and the AC output function will turn on. The product starts to supply power to external AC appliances.
4. When the AC output is finished, click the AC ON/OFF button to turn off the AC output.
5. When the product is not used for a long time, please long press Power ON/OFF button for 3s to turn off the product to save power.

Using the USB output function (fig. 6)

1. Long press the Power ON/OFF button to turn on. The main power indicator and the screen lights up, enters the standby status.
2. Click the USB ON/OFF button to turn on the USB function.
3. Plug in the USB devices and start to use.

How to use EPS function (fig. 7)

- 1. Insert AC input to power the product. The product will automatically turn on and enter charging mode.
- 2. Plug in the AC appliance.
- 3. Press the AC ON/OFF button to activate the AC output function. The AC appliance will enter EPS power mode.
- 4. In the event of external AC power failure, the product will continue to provide AC power to the appliance.

ATTENTION!

- Ensure that the AC input is stable and properly connected to ground.
- In EPS mode, the maximum allowable load is 2400 W.
- In Pass-through mode, the rated total load capacity is 3000 W. Since this load exceeds the power limit of EPS mode, uninterruptible power supply cannot be guaranteed for 3000 W loads.
- If the total load exceeds 3000 W, the unit will automatically disable input and output and activate an AC overload alarm.

WARNING!

- This product has EPS function, but EPS is not a professional UPS, if the AC power supply suddenly fails, after the power off within 20ms can automatically switch to the battery power supply of this product. Do not connect to equipment that requires uninterrupted power supply (such as data servers, workstations, etc.); Or please test it many times to confirm whether it is compatible before using it, otherwise it will affect your experience.
- We are not responsible for any failure to operate the equipment properly or loss of data due to failure to follow the instructions.
- Do not connect the AC output of this product to the AC input of this product, otherwise it will cause damage to the product.

 MAINTENANCE AND STORAGE

When this product needs repair or maintenance, do not disassemble the product by yourself; please take the product to a qualified service provider, disassembling it by yourself may lead to the risk of fire or electric shock. After-sales and repairs of products are carried out only by qualified service personnel without permission. Please do not use the product beyond the range set by the parameters in the specification, otherwise it will cause product failure and our company will not be responsible for providing free maintenance service. Please use the product in accordance with local laws and regulations.

Maintenance

- Clean exterior with a soft dry cloth.
- Regularly inspect cables and ports.

Storage

- Store at 40–60% charge level.
- Keep in a cool, dry place (ideal 5–25°C).
- Recharge to 100% every 3 months.

LiFePO4 batteries typically deliver 3000+ cycles with proper care.

 TROUBLESHOOTING

Issue	Possible solution
Unit does not power on	Charge for at least 30 minutes.
No AC output	Turn on AC switch, check overload protection.
Slow charging	Check cable and ambient temperature.
Overheating	Reduce load and move to cooler area.



SPECIFICATIONS

Model		KSB 2400PS
Battery	Capacity	2048Wh (51.2V/40Ah)
	Cell type	LifePO4 Batteries
	Cell capacity	40Ah
	Cell Qty	1652P total 32 pcs.
	Single cell voltage	3.2 V
	Lifecycle	≤3000 cycles (80% DOD)
AC Output	AC socket	3×230V/50 Hz
	Rated power	2400W
	Peak power	4800W (200mc)
	Conversion efficiency	≥92%
DC output	Type-C port	Type-C1: 2×PD140 W max
	USB-A port	2×USB-A QC 3.0 22.5W max
	Car cigarette lighter socket	12V/10A
	XT60 port	12V/10A
Input	0 to 100% charging from AC inlet	1800W around 2 h full charge
	Charging with MPPT PV module	XT60 1200W max
	XT60 charging	12-60V 1200W max
	LED Flashlight	+
	Net dimensions (L×W×H)	510×265×322 mm
	Gross weight	27 kg
	Net weight	22.5 kg
	Recommended storage temperature	0°C ~ 35 °C (32 °F ~ 95 °F)
	Operating temperature (discharging)	-20 °C ~ 45 °C (-4 °F ~ 113 °F)
	Operating temperature (charging)	0 °C ~ 45 °C (32 °F ~ 113 °F)
	Protection class	IP21



EC Declaration of Conformity

Nr. 279

Manufacturer: DIMAX INTERNATIONAL GmbH
Address: Flinger Broich 203, 40235 Duesseldorf, Germany

We DIMAX INTERNATIONAL GmbH, hereby declare under our sole responsibility that specified below products is in conformity with the relevant Union harmonisation legislation.

Product: Portable power station
Type / Model: KSB 2400PS
Applied EC Directives: 2014/35/EC Low Voltage Directive
2014/30/EC Electromagnetic compatibility Directive (EMC)
Applied Standards: EN 55032:2015+A1:2020
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A2:2021
EN 55035:2017+A11:2020
EN IEC 62368-1:2020+A11:2020

Issued date: 2026-06-09
Place of issue: Duesseldorf
Director: Fomin P.

DIMAX
International GmbH
Flinger Broich 203 40235 Duesseldorf
USt-ID DE296177274
koenner-soehnen.com
P. Fomin



REACH Regulation (EC) No. 1907/2006

The manufacturer confirms that this product complies with the requirements of the REACH Regulation concerning the restriction of substances of very high concern (SVHC). We confirm that supplied parts comply with REACH Regulation (EC) 1907/2006 and contain no SVHC above 0.1%

Based on information received from component suppliers, no SVHC are present in concentrations exceeding the limits defined by the regulation.

This declaration is made on the basis of self-assessment and supplier statements.

RoHS Directive 2011/65/EU

This product contains electrical and electronic components that are subject to the RoHS Directive 2011/65/EU.

Based on information and test reports provided by component suppliers, the manufacturer confirms that these components comply with RoHS Directive 2011/65/EU.

The product has been assessed against the following Standards:

IEC 62321-3-1:2013, IEC 62321-5:2013,
IEC 62321-4:2013+AMD1:2017, IEC 62321-7-1:2015,
IEC 62321-7-2:2017, IEC 62321-6:2015,
IEC 62321-8:2017



WARRANTY SERVICE TERMS

The international manufacturer warranty is 2 year. The warranty period starts from the date of purchase. Within the warranty period, if the product fails because of defects in the production process, it will be exchanged on the same product or repaired.

The warranty card should be kept throughout the warranty period. In case of warranty card loss, a second one will not be provided. The customer must provide the warranty card and buyer's check during request for repair or exchange. Otherwise, the warranty service will not be provided.

Provide clean product to the service center. Parts, that must be replaced, are the property of the service center.

CONTACTS

Deutschland:

Hergestellt unter Lizenz und Kontrolle der DIMAX International GmbH.

Importeur und Vertreter in Deutschland:
DIMAX International GmbH, Flinger Broich 203,
40235 Düsseldorf, Deutschland. Produziert in VRC.
amazon@dimaxgroup.com
www.konner-sohnen.com

European Union:

Manufactured under license and control of DIMAX International GmbH, Flinger Broich 203, 40235 Duesseldorf, Germany.

Importer and representative in Netherlands DIMAX International Poland Ltd, Południowa 8 st,
05-830 Stara Wieś, Poland. Assembled in PRC.
amazon@dimaxgroup.com
www.konner-sohnen.com

The United Kingdom:

Innovation Trade Ltd., 5th Floor, 167-169 Great Portland Street, London, W1W 5PF, sales.uk@dimaxgroup.com

Technical support

support.uk@dimaxgroup.de
www.konner-sohnen.uk

France:

Fabriqué sous licence et contrôle de DIMAX International GmbH, Flinger Broich 203, 40235 Düsseldorf, Allemagne.

Importateur et représentant en France et en Belgique
DIMAX International Poland Ltd, Południowa 8 st,
05-830 Stara Wieś, Pologne. Assemblé en RPC.
amazon@dimaxgroup.com
www.konner-sohnen.fr

España:

Fabricado bajo licencia y control de DIMAX International GmbH, Flinger Broich 203, 40235 Düsseldorf, Alemania.

Importador y representante en España de DIMAX International Poland Ltd, Południowa 8 st,
05-830 Stara Wieś, Polonia.
Ensamblado en la República Popular China.
amazon@dimaxgroup.com
www.konner-sohnen.es

Polska:

Wyprodukowano na licencji i pod kontrolą DIMAX International GmbH, Flinger Broich 203, 40235 Duesseldorf, Niemcy.

Importer i przedstawiciel w Polsce:
DIMAX International Poland Sp.z o. o. ul. Południowa 8,
05-830 Stara Wieś, Polska. Zmontowany w CRL.
amazon@dimaxgroup.com
www.konner-sohnen.pl

Україна:

Виготовлено за ліцензією та під контролем DIMAX International GmbH, Flinger Broich 203, 40235 Дюссельдорф, Німеччина.

Імпортер та представник в Україні:
ТОВ "ТЕХНО ТРЕЙД КС" вул. Електротехнічна 47,
02225, м. Київ, Україна. Змонтовано в КНР
www.konner-sohnen.com.ua

