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Anker AS510

Anker SOLIX S5000 Portable Power Station User Manual

Model: AS510

1. Introduction

The Anker SOLIX S5000 Portable Power Station is a high-capacity, dual-voltage power solution designed to provide reliable electricity for your home, outdoor activities, and emergencies. With a substantial 5,024Wh capacity and a 4,500W rated output (8,000W peak), it can power a wide range of essential appliances. This manual provides detailed instructions for safe operation, setup, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

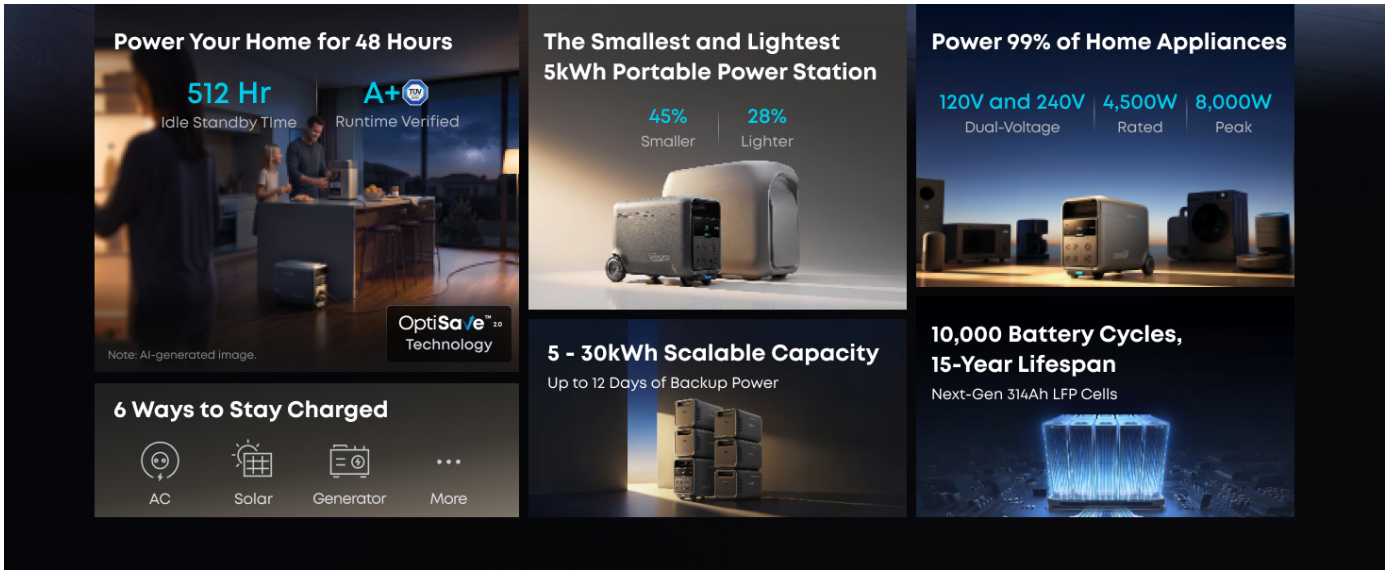


Image: The Anker SOLIX S5000 providing power to a home, demonstrating its ability to offer up to 48 hours of backup power for essential devices.

2. Setup

The Anker SOLIX S5000 is designed for plug-and-play convenience, requiring minimal setup. Ensure the unit is placed on a stable, flat surface with adequate ventilation.

Initial Connection:

- **Direct Appliance Connection:** For individual appliances, simply plug them into the appropriate AC outlets on the power station.
- **Home Integration:** For whole-home backup, connect the S5000 via a compatible transfer switch or inlet box. (Note: Transfer switch/inlet box sold separately).



Image: The power station shown connecting to an inlet box and directly to a refrigerator, highlighting its easy, plug-and-play setup for various applications.

3. Operating Instructions

The Anker SOLIX S5000 provides versatile power output for a wide range of devices and appliances.

Powering Appliances:

- **AC Output:** The S5000 features 120V and 240V AC outputs, delivering a massive 4,500W rated output and an 8,000W peak output. This allows it to run 99% of home appliances, including refrigerators, water pumps, and dryers.
- **USB Ports:** Utilize the USB-A and USB-C ports for charging smaller electronic devices like smartphones, tablets, and laptops.
- **DC Output:** Specific DC ports are available for compatible devices.

To activate AC output, press the 120V AC Output Button or 240V AC Output Button as needed. The LCD screen will display the current power usage and remaining battery life.



Image: An illustration of a home powered by the Anker SOLIX S5000, detailing various 120V and 240V appliances it can support, such as refrigerators, window AC units, microwaves, coffee makers, well pumps, dryers, water heaters, and ranges.

4. Charging Methods

The Anker SOLIX S5000 offers multiple flexible charging options to ensure you stay powered and ready.

- **AC Wall Charging:** Recharge the unit fully in approximately 3.1 hours using the included AC charging cable (1,800W input).
- **Solar Charging:** Connect compatible solar panels for up to 3,000W max input, achieving a full charge in about 2.1 hours.
- **Alternator Charging:** Charge the S5000 from your vehicle's alternator (800W input), reaching full capacity in approximately 7.3 hours.
- **Anker SOLIX Smart Generator Charging:** Achieve a full charge in just 99 minutes with a 4,500W max input.
- **Third-Party Generator Charging:** Connect to any compatible 120V/240V AC generator for a 4,500W max input, fully charging in 99 minutes.
- **Mixed Charging:** Combine multiple charging methods (e.g., AC + Solar) for even faster recharge times, fully charged in 99 minutes.

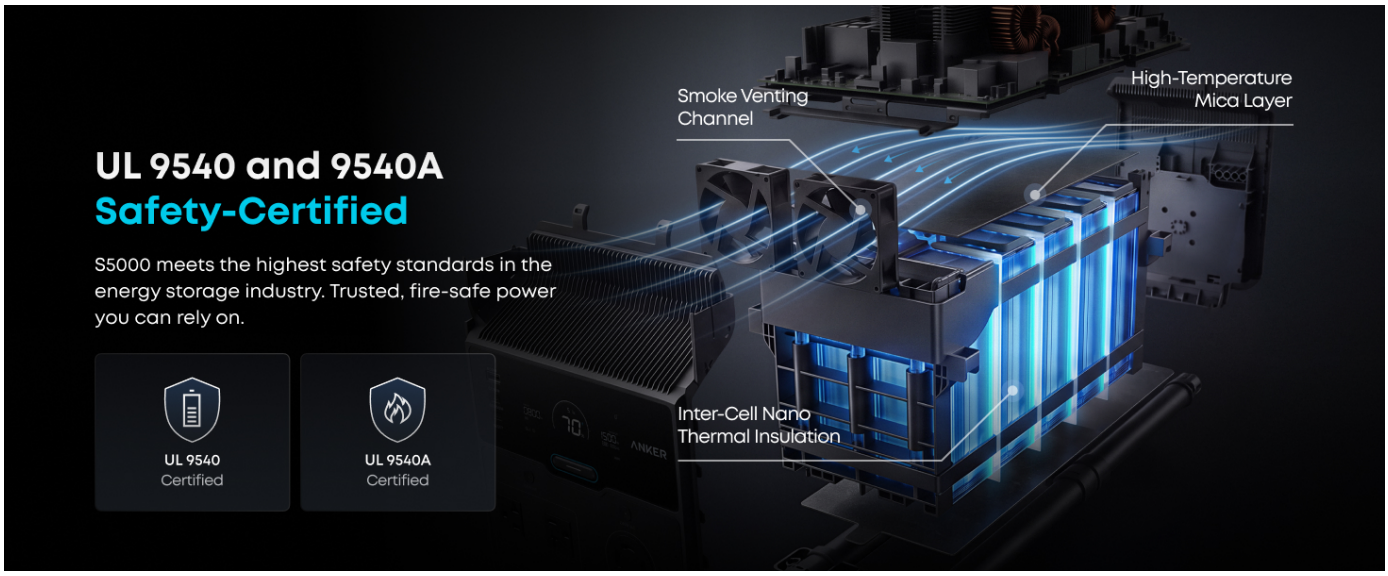


Image: A visual guide to the six charging methods available for the Anker SOLIX S5000, showing the power station being charged via AC wall outlet, solar panels, a car alternator, an Anker SOLIX Smart Generator, a third-party generator, and mixed charging.

5. Expandable Power

The Anker SOLIX S5000 offers scalable power solutions to meet varying energy demands.

- **Scalable Capacity:** Expand the power station's capacity from 5kWh up to 30kWh by connecting additional expansion batteries (sold separately). This provides extended backup power, potentially lasting up to 12 days.
- **Generator Bypass:** Pair the S5000 with an Anker SOLIX Smart Generator or any 120V/240V AC generator for virtually infinite backup power. The system can deliver its full 4,500W output even while charging from a generator.

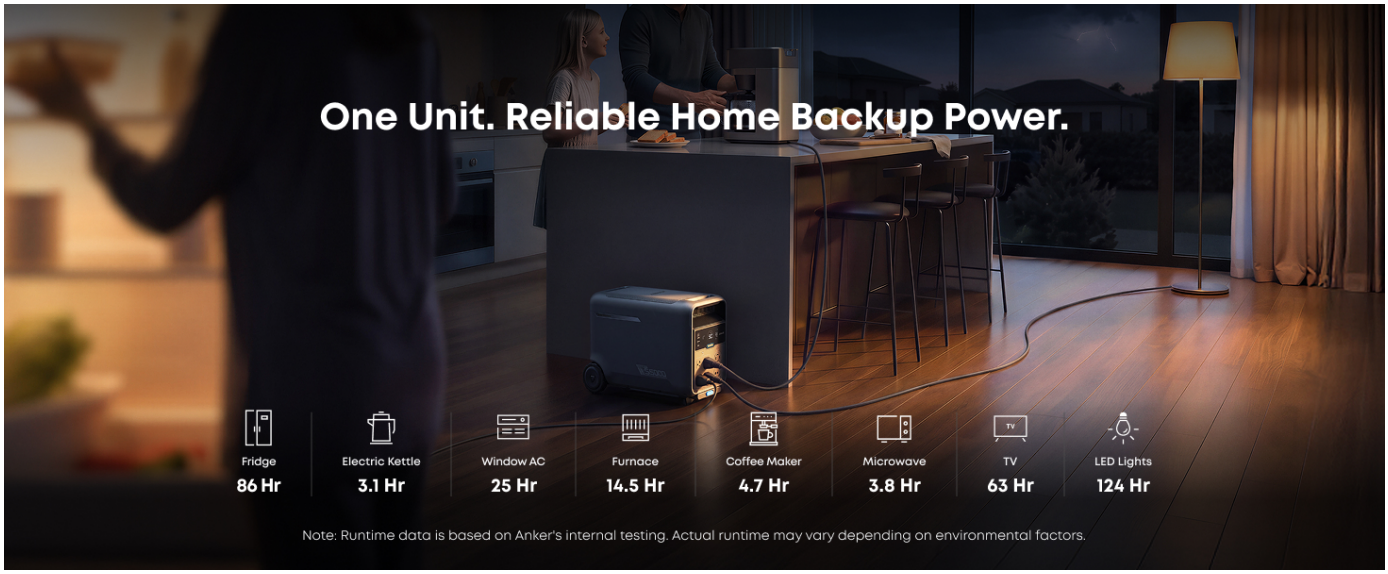


Image: Several Anker SOLIX S5000 units stacked, demonstrating the system's expandable capacity up to 30kWh for extended home backup.



Image: The Anker SOLIX S5000 connected to a generator, illustrating its capability to provide continuous backup power.

6. Safety Features

The Anker SOLIX S5000 is engineered with advanced safety features and durable components to ensure reliable and safe operation.

- **UL Certified:** The S5000 is UL 9540 and UL 9540A certified, meeting the highest safety standards in the energy storage industry.
- **Long-Lasting LFP Cells:** Powered by next-generation 314Ah LiFePO4 (LFP) cells, rated for 10,000 charge cycles, providing a lifespan of up to 15 years.
- **OptiSave 2.0 Technology:** Features 96% light-load efficiency and an 8.8W idle power draw, allowing it to run 20% longer than comparable 5kWh systems.
- **Advanced Thermal Management:** Incorporates a Smoke Venting Channel, High-Temperature Mica Layer, and Inter-Cell Nano Thermal Insulation for enhanced safety and heat dissipation.



Image: A cutaway diagram of the Anker SOLIX S5000 highlighting its internal safety features, including the smoke venting channel, high-temperature mica layer, and inter-cell nano thermal insulation, alongside its UL 9540 and UL 9540A certifications.

7. Smart Features

The Anker SOLIX S5000 integrates smart technology for enhanced control and convenience.

- **Smart App Management:** Monitor the power station remotely, initiate charging before storms, schedule shut-offs, and optimize energy use to reduce electricity costs, all from your smartphone.
- **10 ms UPS Switchover:** In the event of a power outage, the S5000 automatically switches to battery power within 10 milliseconds, ensuring continuous operation for critical devices like CPAP machines, routers, and refrigerators without interruption.
- **30 dB Quiet Operation:** Designed for quiet performance, the S5000 operates at a whisper-quiet 30 dB, comparable to a library, ensuring minimal disturbance in your home.



Image: A smartphone displaying the Anker SOLIX app interface, illustrating features like estimated savings, storm guard auto-charging, one-tap remote control, and shut-off timer settings for smart energy management.

8. Product Diagram: Ports and Controls

Familiarize yourself with the various ports and controls on your Anker SOLIX S5000 Portable Power Station.



Image: A comprehensive diagram of the Anker SOLIX S5000, labeling the LCD screen, main power button, USB-A and USB-C ports, reset hole, 120V and 240V AC output buttons, L14-30R AC output port, NEMA 5-20R AC output ports, TT-30R AC output port, pull rod, DC input/expansion battery port, high-PV input port, low-PV/alternator input port, AC input port, wheels, and foot pedal.

9. Maintenance

Proper maintenance ensures the longevity and optimal performance of your Anker SOLIX S5000.

- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, ensure the battery is charged to approximately 50-80% and recharge every 3-6 months.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive materials. Ensure all ports are free of dust and debris.
- **Ventilation:** Always ensure adequate airflow around the unit during operation and charging to prevent overheating. Do not block ventilation openings.
- **Battery Care:** Avoid fully discharging the battery frequently. While designed for many cycles, maintaining a charge above 20% when possible can extend overall battery health.

10. Troubleshooting

If you encounter issues with your Anker SOLIX S5000, refer to the following common troubleshooting steps:

- **Unit Not Turning On:** Ensure the main power button is pressed and held for a few seconds. Check if the battery has sufficient charge. If completely depleted, connect to an AC power source for a few minutes.
- **No Output from AC Ports:** Verify that the AC output button (120V or 240V) is activated. Check the power draw of your appliance; it might exceed the rated output or peak output. Ensure the appliance is functioning correctly.
- **Charging Issues:** Confirm that the charging cable is securely connected to both the power station and the power source. Check if the power source is active. For solar charging, ensure panels are in direct sunlight and correctly oriented.

- **Overload Protection:** If the unit shuts down unexpectedly, it may be due to an overload. Disconnect some appliances and restart the unit. Refer to the specifications for maximum output.
- **Unusual Noise or Smell:** Immediately turn off the unit and disconnect all power sources. Contact customer support if you notice any unusual sounds, smells, or smoke.
- **LCD Screen Not Responding:** Try pressing the reset hole with a small pin. If the issue persists, contact customer support.

For further assistance, please refer to the contact information in the Warranty and Support section.

11. Specifications

Feature	Detail
Brand	Anker
Model Name	Anker SOLIX S5000
Model Number	AS510
Wattage	5024 watt-hours
Output Wattage	4500 watts (Rated)
Starting Wattage	8000 watts (Peak)
Fuel Type	Battery Powered
Power Source	Battery Powered
Recommended Uses	Residential
Item Weight	97 pounds
Dimensions (L x W x H)	15.2"L x 10.7"W x 22"H
Frequency	60 hertz
Runtime	Up to 48 hours (depending on load)
Battery Type	LiFePO4 (LFP)
Charge Cycles	10,000
Lifespan	Up to 15 years
Certifications	UL 9540, UL 9540A
Included Components	Anker SOLIX S5000 Portable Power Station, AC Charging Cable, 240V Charging Cable, High-Voltage Solar Adapter, Quick Start Guide, Safety Card

12. Warranty and Support

Anker stands behind the quality of its products. Your Anker SOLIX S5000 Portable Power Station comes with a comprehensive warranty and dedicated customer support.

Warranty Information:

The Anker SOLIX S5000 Portable Power Station includes a **5-year warranty**. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please visit the official Anker support website or contact their customer service team. You can find detailed contact information on the Anker website or in the safety card included with your product.

Additional protection plans, such as a 4-Year Protection Plan or a Complete Protect monthly plan, may be available for purchase separately to extend coverage.

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