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Yoshino B4000 SST

Yoshino Solid-State Portable Power Station B4000 SST User Manual

Model: B4000 SST | Brand: Yoshino

1. INTRODUCTION

Thank you for choosing the Yoshino Solid-State Portable Power Station B4000 SST. This advanced power station utilizes industry-leading Li-NCM solid-state technology, offering superior energy density, lighter weight, and enhanced safety compared to conventional batteries. With a massive 2611Wh capacity and 4000W AC output, it is designed to power a wide range of devices and appliances for camping, outdoor activities, emergencies, and home backup.

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your B4000 SST. Please read it thoroughly before use and keep it for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the unit:

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire, heat sources, and direct sunlight.
- Do not expose the unit to water or other liquids.
- Ensure proper ventilation during use to prevent overheating.
- Do not use the unit if it is damaged or has been dropped.
- Keep out of reach of children and pets.
- Use only recommended charging cables and accessories.
- Avoid short-circuiting the output ports.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all items are present and in good condition:

- 1x Yoshino B4000 SST Solid-State Portable Power Station
- 1x AC Recharge Cable
- 1x Cigarette Car Charging Cable
- 1x DC5521 to Cigarette Car Female Output Cable

- 1x Solar Charging Cable MC4 to XT60
- 1x User Manual

4. PRODUCT FEATURES AND COMPONENTS



Figure 4.1: The Yoshino B4000 SST Portable Power Station, showcasing its sleek design and integrated handle.



Figure 4.2: Close-up of the B4000 SST's front panel, detailing the various output ports, digital display, and control buttons. It features USB-A, USB-C (PD 100W, 20W), DC outputs, and a bright LED light bar.

Key Features:

- **Li-NCM Solid-State Technology:** Offers 2.5x higher energy density, lighter weight (53.6 lbs), and enhanced safety.
- **High Capacity & Output:** 2611Wh capacity with 4000W AC output (peaks at 6000W).
- **Long Lifespan:** 4000+ life cycles, equivalent to over 10 years of daily use.
- **Multiple Charging Options:** 1800W AC, 600W solar, and 120W car charging.
- **Fast Recharging:** Charges to 80% in approximately 90 minutes via AC input.
- **Advanced GaN Inverter:** 96% conversion efficiency for safer and more efficient power delivery.
- **Intelligent BMS:** Battery Management System for precise voltage and temperature regulation.
- **UPS Function:** Uninterruptible Power Supply with lightning-fast 20ms switching.
- **Wide Operating Temperature:** Functions flawlessly from -0.4°F to 140°F.
- **Smart App Control:** Remote monitoring and control via Wi-Fi or Bluetooth.
- **Portable Design:** Compact (21.4 x 10.2 x 9.4 inches) and lightweight for easy transport.
- **Quiet Operation:** Under 50 dB (full load @ 3m) with pure sine wave output.
- **ETL Certified:** Meets UL2743 standards for safety.

5. SETUP

5.1 Unboxing and Initial Inspection

1. Carefully remove the B4000 SST and all accessories from the packaging.
2. Inspect the unit and accessories for any signs of damage. If any damage is found, do not use the unit and contact customer support immediately.
3. Place the power station on a flat, stable surface with adequate ventilation.

5.2 Initial Charging

It is recommended to fully charge the B4000 SST before its first use to optimize battery performance.

- Connect the AC Recharge Cable to the AC input port on the power station and then to a wall outlet.
- The digital display will show the charging status. The unit can charge to 80% in approximately 90 minutes.

6. OPERATING INSTRUCTIONS

6.1 Turning On/Off

- To turn on the unit, press and hold the power button until the display illuminates.
- To turn off the unit, press and hold the power button until the display turns off.

6.2 Charging the Power Station

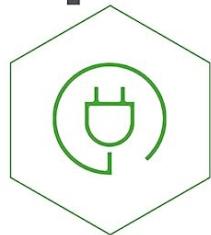
The B4000 SST offers three primary charging methods:

- **AC Wall Outlet:** Connect the AC Recharge Cable to the AC input port. Max 1800W input.
- **Solar Panels:** Connect compatible solar panels (up to 600W) using the provided Solar Charging Cable (MC4 to XT60) to the solar input port.
- **Car Charger:** Use the Cigarette Car Charging Cable to charge from your vehicle's 12V outlet (up to 120W).

Power Off-Grid by Adding Solar Panels*



Multiple Ways to Recharge



AC



Solar



Car

*Solar Panels Not Included.

Figure 6.1: The B4000 SST can be recharged via AC, solar panels, or a car charger, offering versatile charging options for any situation.

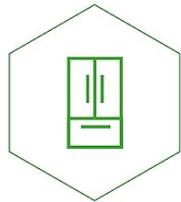
6.3 Powering Devices

The B4000 SST provides various output ports:

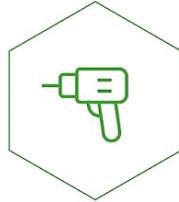
- **AC Outlets:** Plug in your AC-powered devices. The unit provides 4000W continuous power.
- **USB-A & USB-C Ports:** Connect your smartphones, tablets, laptops, and other USB-powered devices. Includes 100W USB-C PD.
- **DC Output Ports:** For 12V DC devices.
- **TT-30R Outlet:** A dedicated 30A industrial-grade output port for high-power devices.



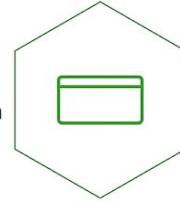
Power Most Devices



Full Size Refrigerator
14 hours / 160Wh



Electric Drill
1.9 hours / 1200Wh



Portable Cooler
3.7 days / 25Wh

Figure 6.2: The B4000 SST is capable of powering most devices, from full-size refrigerators to electric drills and portable coolers, for extended periods.

6.4 Uninterruptible Power Supply (UPS) Function

When connected to an AC wall outlet and simultaneously powering devices, the B4000 SST acts as a UPS. In case of a power outage, it will automatically switch to battery power within 20 milliseconds, ensuring continuous operation for connected electronics and preventing data loss.

6.5 Smart App Control

Download the Yoshino App to remotely control and monitor your power station via Wi-Fi or Bluetooth. The app allows you to:

- Monitor charge levels and remaining runtime.
- View input and output power.
- Customize charging settings (Fast Mode, Smart Mode, Eco Mode).
- Control individual output ports.

7. MAINTENANCE

- Cleaning:** Use a dry, soft cloth to wipe the surface of the unit. Do not use harsh chemicals or abrasive materials.
- Storage:** If storing for an extended period, charge the unit to 50-80% every 3-6 months to maintain battery health. Store in a cool, dry place away from direct sunlight and extreme temperatures.
- Battery Care:** The solid-state battery is designed for longevity (4000+ cycles). Avoid fully discharging the unit frequently to prolong its life.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not turn on	Battery is completely discharged; Power button not pressed long enough.	Charge the unit; Press and hold the power button for 3-5 seconds.
No output from AC ports	AC output not enabled; Overload protection activated.	Ensure AC output is turned on; Reduce load, then restart AC output.
Slow charging speed	Using a low-power charger; Environmental temperature too high/low.	Use the provided AC charger; Ensure unit is within optimal charging temperature range (-0.4°F to 140°F).
App connection issues	Bluetooth/Wi-Fi off; App not updated.	Ensure Bluetooth/Wi-Fi is enabled on your device and the power station; Update the Yoshino App.

9. SPECIFICATIONS

Attribute	Value
Brand	Yoshino
Model Name	B4000 SST
Battery Type	Li-NCM Solid-State
Capacity	2611Wh
AC Output Power	4000W (Pure Sine Wave), 6000W Peak
Total Power Outlets	11
USB-A Output	2x 5V/2.4A
USB-C Output	1x 100W PD, 1x 20W
AC Input (Charging)	Max 1800W
Solar Input (Charging)	Max 600W
Car Input (Charging)	Max 120W
Dimensions (L x W x H)	21.4" x 10.2" x 9.4"

Attribute	Value
Item Weight	53.6 Pounds
Operating Temperature	-0.4°F to 140°F
Certifications	ETL certified to UL2743 standards

10. WARRANTY AND SUPPORT

Yoshino products are backed by a comprehensive warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Yoshino website. Protection plans are also available for extended coverage.

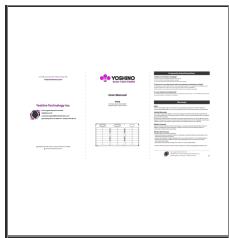
For technical support, troubleshooting assistance, or any inquiries regarding your B4000 SST, please contact Yoshino Customer Service:

- **Official User Manual (PDF):** [Download Here](#)
- **Yoshino Store:** [Visit Yoshino Store on Amazon](#)
- **Customer Service Email:** [\[Insert Customer Service Email Here\]](#)
- **Customer Service Phone:** [\[Insert Customer Service Phone Number Here\]](#)

Please have your model number (B4000 SST) and purchase information ready when contacting support.

Related Documents - B4000 SST

	<p>Yoshino B2000 SST Portable Power Station User Manual</p> <p>Comprehensive user manual for the Yoshino B2000 SST Solid-State Portable Power Station, covering setup, operation, safety, specifications, troubleshooting, and warranty information.</p>
	<p>Yoshino B4000 SST Portable Power Station User Manual Operation, Safety, Specs</p> <p>Comprehensive user manual for the Yoshino B4000 SST Solid-State Portable Power Station. Covers setup, operation, safety guidelines, technical specifications, troubleshooting, and warranty information.</p>
	<p>Yoshino B4000 SST Portable Power Station User Manual</p> <p>Comprehensive user manual for the Yoshino B4000 SST Solid-State Portable Power Station. Learn about safety instructions, product overview, recharging methods (AC, car, solar), operation, app connectivity, UPS functionality, expansion battery use, specifications, warranty, troubleshooting, and FAQs.</p>

	<p>Yoshino SP100 Portable Solar Panel 100W User Manual</p> <p>User manual for the Yoshino SP100 100W portable solar panel, covering features, technical specifications, operating instructions, connection examples, frequently asked questions, and warranty information. Learn how to connect and use the panel with Yoshino portable power stations.</p>
	<p>Yoshino SP200 Portable Solar Panel User Manual and Specifications</p> <p>Comprehensive user manual for the Yoshino SP200 Portable Solar Panel, including features, technical specifications, operating instructions, warranty information, and troubleshooting FAQs. Learn how to connect and use your 200W solar panel.</p>
	<p>Yoshino B2000 SST Solid-State Portable Power Station 2000W, 1326Wh</p> <p>Discover the Yoshino B2000 SST, a 2000W continuous, 1326Wh solid-state portable power station. Ideal for camping, emergencies, RVs, and job sites, featuring fast charging, multiple ports, and app control.</p>