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Yoshino B4000 SST

Yoshino Solid-State Portable Power Station B4000 SST User Manual

Model: B4000 SST

Introduction

The Yoshino B4000 SST is a state-of-the-art portable power station featuring industry-leading Li-NCM solid-state battery technology. Designed for reliability and efficiency, it provides a massive 2611Wh capacity and a powerful 4000W AC output, suitable for a wide range of applications from RVs and camping to emergency backup power. Its compact and lightweight design, combined with advanced safety features and smart app control, makes it an ideal solution for portable energy needs.

What's Included

Upon unboxing your Yoshino B4000 SST, please verify that all components are present:

- 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 (this document)

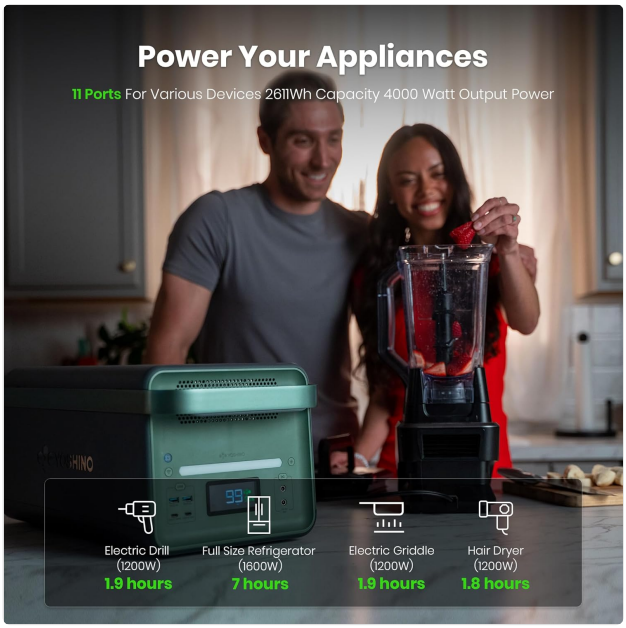
Key Features

The Yoshino B4000 SST incorporates several advanced features for superior performance and user experience:

- **Solid-State Battery Technology**: Utilizes Li-NCM solid-state batteries for 2.5x higher energy density, enhanced safety, and a lifespan of over 4000 cycles. Operates reliably in extreme temperatures from -0.4°F to 140°F.
- **High Power Output**: Delivers a massive 4000W AC output, capable of powering most household appliances and heavy-duty tools. Features a lightning-fast 20ms UPS switching for uninterrupted power during outages.
- **Versatile Charging Options**: Supports 1800W AC input, 600W solar charging, and 120W car charging. Achieves 80% charge in just 90 minutes via AC.
- **Compact and Portable**: Weighs only 53.6 lbs and measures 21.4 x 10.2 x 9.4 inches, making it easy to transport for various outdoor and emergency scenarios.
- **Smart App Control**: Connects via Wi-Fi or Bluetooth to the Yoshino App, allowing remote monitoring of charge levels, runtime, and status, along with customizable charging modes (Fast, Smart, Eco).
- **Advanced Battery Management System (BMS)**: Ensures top-tier safety by precisely regulating voltage and temperature, providing peace of mind.

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

Illustration of the B4000 SST powering common household appliances like an electric drill, refrigerator, griddle, and hair dryer.



The B4000 SST shown in a snowy, cold environment, highlighting its ability to operate at -0.4°F.

The B4000 SST depicted in a desert, hot environment, demonstrating its capability to withstand temperatures up to 140°F.

Official Product Video

Your browser does not support the video tag.

This video provides an overview of the Yoshino B4000 SST Solid-State Portable Power Station, showcasing its design and key functionalities.

Setup Guide

Before using your Yoshino B4000 SST, please follow these setup steps:

1. **Initial Charge:** It is recommended to fully charge the power station before first use. Connect the provided AC Recharge Cable to the AC input port on the unit and plug it into a standard wall outlet. The display will show charging progress.
2. **Alternative Charging:** For solar charging, connect compatible solar panels (sold separately) to the XT60 input using the provided Solar Charging Cable. For car charging, use the Cigarette Car Charging Cable.
3. **Power On:** Press and hold the main power button until the display illuminates.
4. **App Connection (Optional):** Download the Yoshino App from your device's app store. Enable Bluetooth and Wi-Fi on your mobile device and follow the in-app instructions to connect to your B4000 SST for remote control and monitoring.

Operating Instructions

The Yoshino B4000 SST offers multiple output options for various devices:

- **AC Output:** To use the AC outlets, ensure the AC output button is pressed and illuminated. Plug your devices into the 120V AC outlets. The unit provides 4000W continuous power.
- **DC Output:** For DC devices, press the DC output button. Connect your 12V DC devices to the DC output ports.
- **USB Output:** The unit features multiple USB-A and USB-C ports. Simply plug your USB-compatible devices into the appropriate port. USB-C ports support Power Delivery (PD) for fast charging compatible devices.
- **Wireless Charging:** Place compatible devices on the wireless charging pads located on top of the unit. Ensure the device is properly aligned for optimal charging.
- **UPS Function:** When connected to an AC power source, the B4000 SST can function as an Uninterruptible Power Supply (UPS). In case of a power outage, it will automatically switch to battery power within 20ms, protecting connected sensitive electronics.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your Yoshino B4000 SST:

- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, charge the unit to approximately 50-80% every 3-6 months to preserve battery health.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners or immerse the unit in water.
- **Battery Health:** The solid-state battery is designed for over 4000 life cycles. Avoid consistently draining the battery to 0% or charging to 100% if not necessary for immediate use, as this can extend overall battery life.
- **Ventilation:** Ensure the ventilation grilles are clear of obstructions to prevent overheating.

Troubleshooting

If you encounter issues with your Yoshino B4000 SST, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Unit not turning on	Low battery; Power button not pressed correctly	Charge the unit; Press and hold the power button for 3 seconds.
AC output not working	AC output not enabled; Overload; Circuit breaker tripped	Press the AC output button; Reduce connected load; Reset the circuit breaker on the back of the unit.
Slow charging	Incorrect charging mode; Low input power	Check Yoshino App for charging mode settings (e.g., ensure Fast Mode is selected); Verify input power source.
App connection issues	Bluetooth/Wi-Fi off; Unit too far from device	Ensure Bluetooth/Wi-Fi is enabled; Move device closer to the unit; Restart app and unit.

If the problem persists after attempting these solutions, please contact Yoshino customer support.

Specifications

Feature	Detail
Brand	Yoshino
Model Name	B4000 SST
Battery Type	Li-NCM Solid-State
Capacity	2611Wh
AC Output Power	4000W (Pure Sine Wave)
Peak AC Output	6000W (Surge)
AC Input (Charging)	1800W Max
Solar Input (Charging)	600W Max
Car Input (Charging)	120W Max
Cycle Lifespan	4000+ cycles (to 80% capacity)
Operating Temperature	-0.4°F to 140°F (-18°C to 60°C)

Feature	Detail
Dimensions (L x W x H)	21.4" x 10.2" x 9.4"
Weight	53.6 lbs
Total Power Outlets	11
Certifications	ETL certified to UL2743 standards

Warranty and Support

Yoshino stands behind the quality of its products. For detailed warranty information, please refer to the official warranty policy provided with your purchase or visit the Yoshino website. For technical support, troubleshooting assistance, or any inquiries regarding your B4000 SST, please contact Yoshino customer service through the contact information provided in your product packaging or on the official Yoshino website.
Additional protection plans may be available for purchase to extend coverage beyond the standard warranty period. Please check with your retailer or the Yoshino website for more details.

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For more information, visit Yoshino Store

Documents - Yoshino – B4000 SST

Yoshino B4000 SST Portable Power Station User Manual
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.
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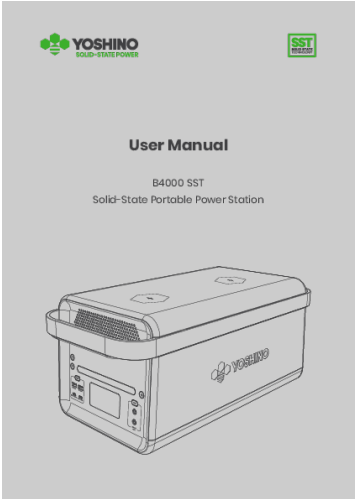

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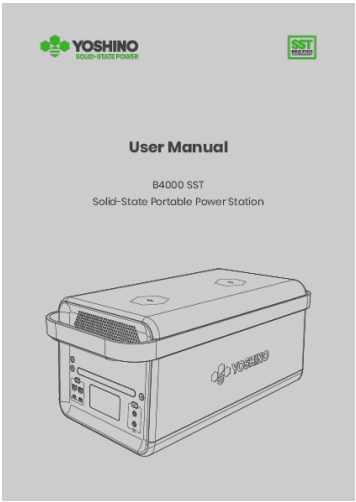

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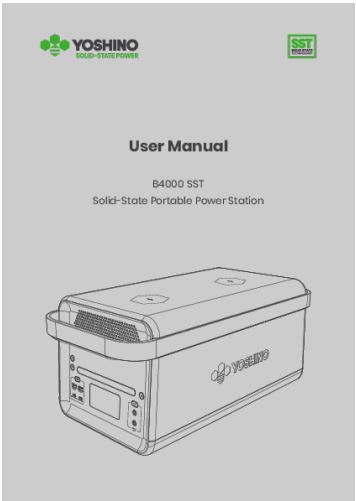

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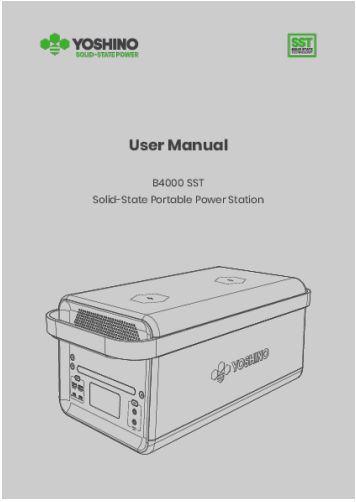

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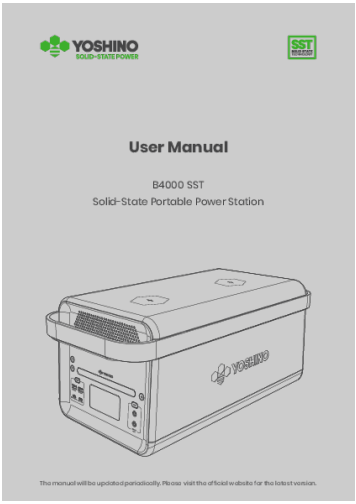

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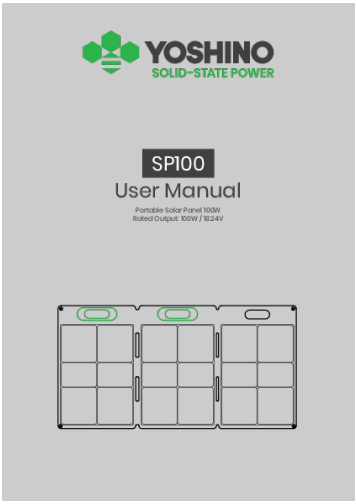

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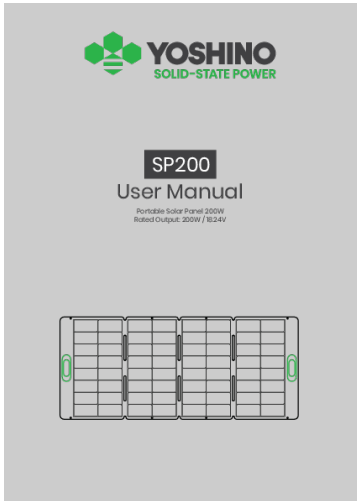

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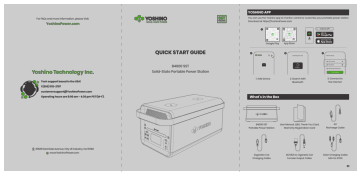

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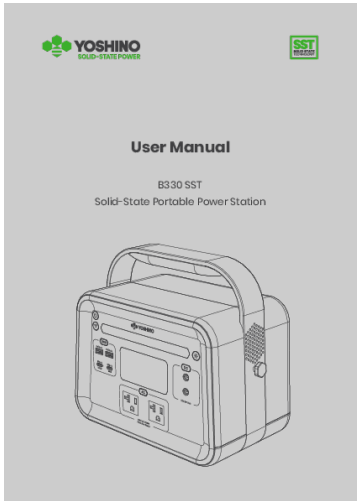

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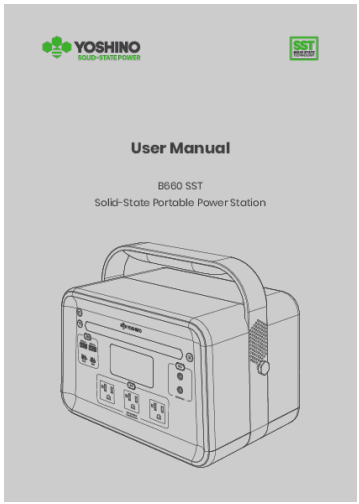

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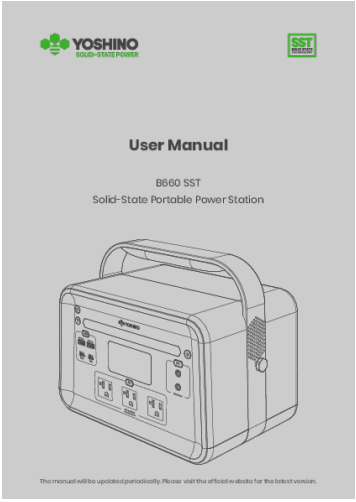

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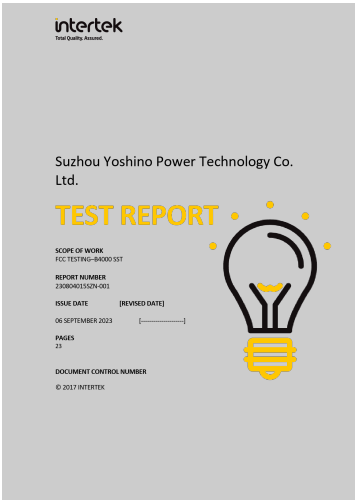

[pdf] Test Report

User Test Report Suzhou Yoshino Power Technology Co Ltd B4000SST 2BAU4 2BAU4B4000SST b4000sst

Suzhou Yoshino Power Technology Co. Ltd. TEST REPORT SCOPE OF WORK FCC TESTING**B4000 SST** REPORT NUMBER 230804015SZN-001 ISSUE DATE REVISED DATE 06 SEPTEMBER 2023 ---------- PAGES 23 DOCUMENT CONTROL NUMBER FCC ID 209_b 2017 INTERTEK TEST REPORT 101, 201, Building B, No. 308...

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Model: K40SP23

Short Title: Yoshino Solid-State Portable Solar Generator Pro Set 4,000W + 3x 200W Solar Panel

Bullets

NEW SOLID-STATE TECHNOLOGY – Solid-State Technology (SST), is the evolution in lithium batteries which are safer, more compact,lighter than its conventional lithium-ion counterparts. New solid-state battery provides safer & compact power output for off-grid and recreation use.

POWER AND CAPACITY – 4,000 watts continuous (6,000 peak watts) power and a capacity of 2,611Wh provides power for devices and most all home appliances. Safety features include over voltage, over current, over charging, over discharging, thermal, and short circuit protection. The SST battery is rated to 2,500 cycles to 80% (7 years of everyday use). Integrated GaN technology allows for more efficient power delivery, and Yoshino's U.S. based support is here to assist with any service needs.

LIMITLESS SOLAR – Yoshino portable solar panels feature market leading solar technology, mono-crystalline silicon solar cells with a 24% efficiency rating allowing for even more energy conversion from the sun. These panels are also expandable, you can buy multiple panels and link them to expand the overall energy capacity.

POWER WITHOUT BOUNDARIES – Whether you are out camping, on an adventure, or in the middle of an emergency, this portable solar generator weighs 53.6 lbs. and provides a great source of power when all else fails. Featuring built-in aluminum handles for easy transport, and 3 compact solar panels that weigh 18.7 pounds and measure 31" x 72" x 0.2" each, unfolded. Track status of the B4000 SST solid-state portable power station and its solar input using the mobile app – connecting via Wi-Fi or Bluetooth. Quiet with zero gas emissions and harmful fumes, keeping you connected, always.

CLEAN, GREEN, ENERGY – Yoshino solid-state portable solar generators provide clean and natural energy by harnessing the sun's power. Perfect for using on outdoor or off-grid adventures - leaving loud gas generators behind in favor of silent and eco-friendly options.

SUPPORTS 11 CONNECTIONS – Ports include AC (pure sine wave, 120 V x2), DC (12 V) x2, USB-A x2, USB-Type C (20W) x1, Type C PD (100W) x1, 120V/30A RV x1, Wireless Charging Pad (15W) X2

WHAT'S INCLUDED - (1) AC Recharge Cable, (1) Cigarette Car Charging Cable, (1) Cigarette Car Female Output Cable, (1) Solar Charging Cable MC4 to XT60, (2) foldable Yoshino portable solar panels, (1) standard MC4 solar connection cable, (2) User Manuals

Description

Transition to the only advanced and efficient solid-state solar generator available, weighing at 53.6 lbs. yet delivering an impressive 4,000W AC output and 2,611Wh capacity! From its Bluetooth/WiFi enabled APP control panel with 11 ports including AC, DC, wireless charging, USB-A & C outlets to a high-powered LED light, this B4000 SST solid-state portable solar generator provides power wherever your travels take you - perfect for outdoor camping

[pdf] Catalog

Microsoft Word Model K40SP23 Copy Annie Gonzalez Short Title Yoshino Solid State Portable Solar Generator Pro Set 4 000W 3x 200W Max Input 600 Watts Mobile APP for remote access efbd5a14 f8f3 4a6b 859c 85046bde2b82 images thdstatic catalog Images ef |||

Model: K40SP23 Short Title: Yoshino Solid-State Portable Solar Generator Pro Set 4,000W 3x 200W So ... olar panels that weigh 18.7 pounds and measure 31 x 72 x 0.2 each, unfolded. Track status of the **B4000 SST** solid-state portable power station and its solar input using the mobile app connecting vi...

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Model: K40SP22

Short Title: Yoshino Solid-State Portable Solar Generator Pro Set 4,000W + 2x 200W Solar Panel

Bullets

NEW SOLID-STATE TECHNOLOGY – Solid-State Technology (SST), is the evolution in lithium batteries which are safer, more compact,lighter than its conventional lithium-ion counterparts. New solid-state battery provides safer & compact power output for off-grid and recreation use.

POWER AND CAPACITY – 4,000 watts continuous (6,000 peak watts) power and a capacity of 2,611Wh provides power for devices and appliances. Safety features include over voltage, over current, over charging, over discharging, thermal, and short circuit protection. This SST battery is rated to 2,500 cycles to 80% (7 years of everyday use), and Yoshino's U.S. based support is here to assist with any service needs.

LIMITLESS SOLAR – Yoshino portable solar panels feature market leading solar technology, mono-crystalline silicon solar cells with a 24% efficiency rating allowing for even more energy conversion from the sun. These panels are also expandable, you can buy multiple panels and link them to expand the overall energy capacity.

POWER WITHOUT BOUNDARIES – The B4000 SST portable solar generator is only 53.6 lbs. With 4000 watts of reliable power for camping, recreational, and emergency usage, it features sleek, aluminum handles with and interior soft-grip for transport. Included are two 18.7 lb. portable solar panels (31" x 72" x 0.2" unfolded, each). Monitor via app over Wi-Fi/Bluetooth. Quiet, emission-free. Stay connected without the drama.

CLEAN, GREEN, ENERGY – Yoshino solid-state portable solar generators provide clean and natural energy by harnessing the sun's power. Perfect for using on outdoor or off-grid adventures - leaving loud gas generators behind in favor of silent and eco-friendly options.

SUPPORTS 11 CONNECTIONS – Ports include AC (pure sine wave, 120 V x2), DC (12 V) x2, USB-A x2, USB-Type C (20W) x1, Type C PD (100W) x1, 120V/30A RV x1, Wireless Charging Pad (15W) X2

WHAT'S INCLUDED - (1) AC Recharge Cable, (1) Cigarette Car Charging Cable, (1) Cigarette Car Female Output Cable, (1) Solar Charging Cable MC4 to XT60, (2) foldable Yoshino portable solar panels, (1) standard MC4 solar connection cable, (2) User Manuals

Description

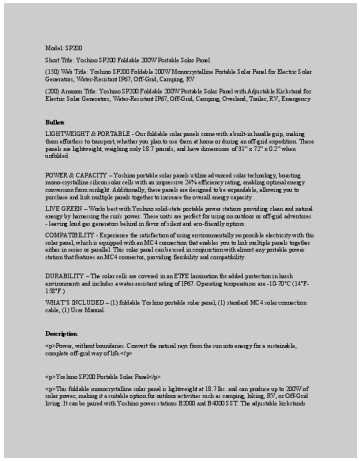
Transition to the only advanced and efficient solid-state solar generator available, weighing at 53.6 lbs. yet delivering an impressive 4,000W AC output and 2,611Wh capacity! From its Bluetooth/WiFi enabled APP control panel with 11 ports including AC, DC, wireless charging, USB-A & C outlets to a high-powered LED light, this B4000 SST solid-state portable solar generator provides power wherever your travels take you - perfect for outdoor camping adventures, emergency backup situations, or recreational activities. Two 200W solar panels (included) allow you to harness energy directly from the sun for a complete off-the-grid lifestyle. Say goodbye to the noise and toxic chemicals emitted by fuel, propane, or gasoline powered

[pdf] Catalog

Microsoft Word Model K40SP22 Copy Annie Gonzalez Short Title Yoshino Solid State Portable Solar Generator s portable solar generator can easily charge during the day using sun power via two 200W panels greatly reducing your carbon footprint b6000875 ecdb 4a79 a553 33b936f45953 images thdstatic catalog Images b6 |||

Model: K40SP22 Short Title: Yoshino Solid-State Portable Solar Generator Pro Set 4,000W 2x 200W So ... multiple panels and link them to expand the overall energy capacity. POWER WITHOUT BOUNDARIES The **B4000 SST** portable solar generator is only 53.6 lbs. With 4000 watts of reliable power for camping, ...

lang:en score:27 filesize: 524.69 K page_count: 2 document date: 2023-08-30



Model: SP200

Short Title: Yoshino SP200 Foldable 200W Portable Solar Panel

(150) Web Title: Yoshino SP200 Foldable 200W Monocrystalline Portable Solar Panel for Electric Solar Generators, Water-Resistant IP67, Off-Grid, Camping, RV

(200) Amazon Title: Yoshino SP200 Foldable 200W Portable Solar Panel with Adjustable Kickstand for Electric Solar Generators, Water-Resistant IP67, Off-Grid, Camping, Overland, Trailer, RV, Emergency

Bullets

LIGHTWEIGHT & PORTABLE - Our foldable solar panels come with a built-in handle grip, making them effortless to transport, whether you plan to use them at home or during an off-grid expedition. These panels are lightweight, weighing only 18.7 pounds, and have dimensions of 31" x 72" x 0.2" when unfolded.

POWER & CAPACITY – Yoshino portable solar panels utilize advanced solar technology, boasting mono-crystalline silicon solar cells with an impressive 24% efficiency rating, enabling optimal energy conversion from sunlight. Additionally, these panels are designed to be expandable, allowing you to purchase and link multiple panels together to increase the overall energy capacity

LIVE GREEN! – Works best with Yoshino solid-state portable power stations providing clean and natural energy by harnessing the suns power. These units are perfect for using on outdoor or off-grid adventures - leaving loud gas generators behind in favor of silent and eco-friendly options

COMPATIBILITY - Experience the satisfaction of using environmentally responsible electricity with this solar panel, which is equipped with an MC4 connection that enables you to link multiple panels together either in series or parallel. This solar panel can be used in conjunction with almost any portable power station that features an MC4 connector, providing flexibility and compatibility.

DURABILITY – The solar cells are covered in an ETFE lamination for added protection in harsh environments and includes a water-resistant rating of IP67. Operating temperatures are -15-70°C (14°F-158°F.)

WHAT'S INCLUDED – (1) foldable Yoshino portable solar panel, (1) standard MC4 solar connection cable, (1) User Manual.

Description:

Power, without boundaries. Convert the natural rays from the sun into energy for a sustainable, complete off-grid way of life.

Yoshino SP200 Portable Solar Panel

This foldable monocrystalline solar panel is lightweight at 18.7 lbs. and can produce up to 200W of solar power, making it a suitable option for outdoor activities such as camping, hiking, RV, or Off-Grid living. It can be paired with Yoshino power stations B2000 and B4000 SST. The adjustable kickstands

[pdf] Dimension Guide Catalog

Microsoft Word SP200 Solar Panel Copy Annie Gonzalez Yoshino Foldable 200W Portable 150 Web Title These panels are lightweight weighing only 18 7 pounds and have dimensions of 31 x 72 0 2 when unfolded POWER CAPACITY portable solar panels 67048c9e 5faa 4ea6 abb9 faeb8bc2f0f8 images thdstatic catalog Images 67 |||

Model: SP200 Short Title: Yoshino SP200 Foldable 200W Portable Solar Panel 150 Web Title: Yoshino ... as camping, hiking, RV, or Off-Grid living. It can be paired with Yoshino power stations B2000 and **B4000 SST**. The adjustable kickstands allow you to angle the panels for maximum sun exposure, keepi...

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Suzhou Yoshino Power Technology Co. Ltd.

TEST REPORT

SCOPE OF WORK
SAR Assessment– B4000 SST

REPORT NUMBER
230804015SZN-002

ISSUE DATE [REVISED DATE]
06 September 2023 [----------]

PAGES
8

DOCUMENT CONTROL NUMBER
RF Exposure
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[pdf] Test Report SAR Rating

200903043SZN 002 dongsb Test Report Suzhou Yoshino Power Technology Co Ltd B4000SST 2BAU4 2BAU4B4000SST b4000sst

Suzhou Yoshino Power Technology Co. Ltd. TEST REPORT SCOPE OF WORK SAR Assessment **B4000 SST** REPORT NUMBER 230804015SZN-002 ISSUE DATE REVISED DATE 06 September 2023 ---------- PAGES 8 DOCUMENT CONTROL NUMBER RF Exposure 2017 INTERTEK TEST REPORT Applicant Sample Description P...

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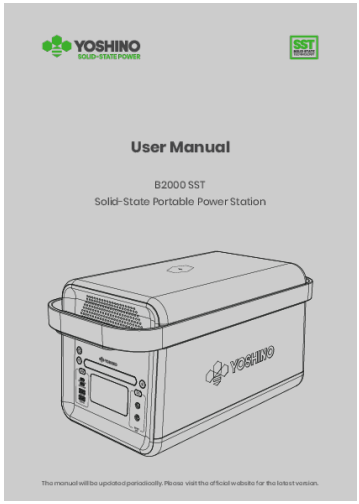

[Yoshino B2000 SST Portable Power Station User Manual]

Comprehensive user manual for the Yoshino B2000 SST Solid-State Portable Power Station, covering setup, operation, safety, specifications, troubleshooting, and warranty information.

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Model: B4000 SST

Short Title: Yoshino B4000 SST Solid-State Portable Power Station

(150) Web Title: Yoshino B4000 SST New Solid-State Portable Power Station 2,611Wh, 4,000W Continuous/6,000W Peak Solar Optional Generator, Expandable, Off-Grid, RV, UPS Backup Battery

Bullets:

NEW SOLID-STATE TECHNOLOGY – Solid-State Technology (SST), is the evolution in lithium batteries which are safer, more compact & lighter than its conventional lithium-ion counterparts. New solid-state battery provides safer & compact power output for off-grid and emergency backup use.

POWER AND CAPACITY – 4,000 watts continuous (6,000 peak watts) power and a capacity of 2,611Wh provides power for devices and most all home appliances. Safety features include over voltage, over current, over charging, over discharging, thermal, and short circuit protection. The SST battery is rated to 2,500 cycles to 80% (7 years of everyday use). Integrated GaN technology allows for more efficient power delivery, and Yoshino's U.S. based support is here to assist with any service needs.

EXPANDABLE WITH SMART LINK - Smart Link allows the ability to connect additional 2,611Wh batteries together to increase capacity. There are no limits with Smart link, allowing the ability to match capacity to any application.

POWER ON THE GO – Truly Portable at 53.6 lbs, this power station is great for camping, emergencies, or overlanding adventures. Features UPS (Uninterruptible Power Supply) backup with two 15W wireless charging pads, app for remote access via Wi-Fi/Bluetooth. Quiet, emission-free, and reliable. Stay connected on the go

3 WAYS TO RECHARGE – The B4000 SST can be recharged using AC fast charging (0-100% within 90 minutes), optional solar charging (5.5 hours) and car charging (22 hours).

SUPPORTS 11 CONNECTIONS – Ports include AC (pure sine wave, 120V x2, 120V/30A RV x1), DC (12V) x2, USB-A x2, USB-Type C (20W) x1, Type C PD (100W) x1, Wireless Charging Pad (15W) x2

WHAT'S INCLUDED - (1) AC Recharge Cable, (1) Cigarette Car Charging Cable, (1) Cigarette Car Female Output Cable, (1) Solar Charging Cable MC4 to XT60, (1) User Manual

Description:

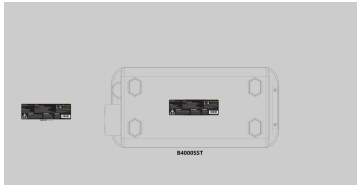
Weighing only 53.6 lbs, and delivering 4,000W AC output and 2,611Wh capacity, the B4000 SST provides truly portable power – ensuring your devices are powered where ever your adventure takes you. This portable power station is both an essential and sustainable battery-powered backup system to meet your needs whether for outdoor, home backup, power tools, or off-grid use. This unit includes two fixed 15-watt wireless charging pads, allowing you to charge devices like the iPhone 14 Pro, Samsung Galaxy S22, or any other smart device simultaneously while charging other electronics or power tools. It features optional Wi-Fi and Bluetooth enabled

[pdf] Catalog

Microsoft Word Model 4000 Copy NEW 02 27 23 Annie Gonzalez 833fadd7 f2a6 4e2c 8b56 6951c0054d82 images thdstatic catalog Images 83 |||

Model: **B4000 SST** Short Title: Yoshino **B4000 SST** Solid-State Portable Power Station 150 Web Title: Yoshino **B4000 SST** New Solid-State Portable Power Station 2,611Wh, 4,000W Continuous/6,000W Peak Solar Optional Generator, Expandable, Off-Grid, RV, UPS Backup Battery Bullets: NEW SOLID-STATE TECHNOLO...

lang:en score:23 filesize: 252.52 K page_count: 2 document date: 2023-08-16



[pdf] User Manual Label

B330 660 2000 4000 SST Label 20230602 Artwork and Location Suzhou Yoshino Power Technology Co Ltd B4000SST 2BAU4 2BAU4B4000SST b4000sst

Model: **B4000 SST** Battery Capacity: 2611Wh, 48.36V, 54Ah Input Ports: AC Input: 100-120VAC, 50/60Hz Charging Mode: 1800W Max Bypass Mode: 12A Max Car Input: 12VDC/10A, 120W Max Solar Input: 12-60VDC/10A Max, 600W Max Output Ports: AC Output: 2 AC Outlets, 50/60Hz TT-30R Outlet, 50/60Hz Inverter Mode...

lang:en score:19 filesize: 1.62 M page_count: 1 document date: 2023-07-10