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› Takki S81Max Portable Solar Power Station with 21W Foldable Solar Panel User Manual

Takki S81Max

Takki S81Max Portable Solar Power Station User Manual

Model: S81Max | Brand: Takki

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1. INTRODUCTION

Thank you for choosing the Takki S81Max Portable Solar Power Station. This device is designed to provide reliable power for various electronic devices during outdoor activities, emergencies, or as a backup power source at home. It combines a 111Wh power station with a 21W foldable solar panel for convenient recharging. Please read this manual thoroughly before using the product to ensure safe and optimal performance.

2. IMPORTANT SAFETY INSTRUCTIONS

- Do not disassemble, repair, or modify the unit.
- Do not place the unit near fire or expose it to high temperatures.
- Do not use or store the unit in direct sunlight or in hot environments.
- Do not use or store the unit in a bathroom or in areas exposed to water or humidity.
- Use only the provided or approved accessories.
- Keep the unit away from children.
- Do not drop, hit, or shake the unit.
- If the unit emits a strange odor, generates heat, or behaves abnormally, discontinue use immediately.
- Dispose of the product according to local regulations.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Takki S81Max Portable Power Station (111Wh capacity)
- 21W Foldable Solar Panel

- Charger Adapter (AC adapter)
- Cigarette Lighter Adapter
- User Manual
- DC-DC Cable
- 10-in-1 Connector Set

4. PRODUCT OVERVIEW

The Takki S81Max Portable Solar Power Station is a compact and versatile power solution. It features multiple output ports and an integrated LED flashlight, making it suitable for various power needs.



Figure 4.1: Front and top view of the Takki S81Max Portable Power Station, highlighting the various ports and control buttons.

4.1 Power Station Components

- **DC Output (12-16.8V/10A):** For connecting DC-powered devices.
- **USB Ports (5V/2.4A x 2):** Standard USB-A ports for charging smartphones and other small electronics.
- **USB QC3.0 Ports (5-12V/2A, 18W Max x 2):** Quick Charge 3.0 compatible USB-A ports for faster charging.

- **USB Type-C Port (PD 18W Max):** Power Delivery compatible USB-C port for fast charging compatible devices.
- **AC Outlets (80W/120W Peak x 2):** Standard 110V AC outlets for small appliances.
- **Battery Display:** Shows the current battery level.
- **Light Switch:** Controls the integrated light panel.
- **Flashlight Switch:** Controls the integrated LED flashlight.
- **AC Outlet Switch:** Activates/deactivates the AC outlets.

4.2 21W Foldable Solar Panel

The included 21W foldable solar panel provides an efficient way to recharge your power station using solar energy. It is lightweight and designed for portability.



Figure 4.2: Dimensions and portability of the 21W foldable solar panel.

- **High-Efficiency Conversion:** Up to 23% solar conversion rate.
- **Compact Design:** Folded dimensions: 10.78 x 8.18 inches. Unfolded dimensions: 16.45 x 10.78 inches.
- **Lightweight:** Approximately 0.92 lbs.
- **Connectors:** Includes 10 DC different size connectors for broad compatibility.

5. SETUP

5.1 Initial Charge

Before first use, it is recommended to fully charge the power station using the AC charger.

1. Connect the AC charger adapter to the power station's DC input port.
2. Plug the AC charger into a standard wall outlet.
3. The battery display will indicate charging status. The unit will be fully charged in approximately 6 hours.

6. OPERATING INSTRUCTIONS

6.1 Charging the Power Station

6.1.1 AC Charging

As described in the initial setup, connect the AC charger to a wall outlet and the power station's DC input. Charging time is approximately 6 hours.

6.1.2 Solar Charging with 21W Solar Panel

To charge the power station using the solar panel:

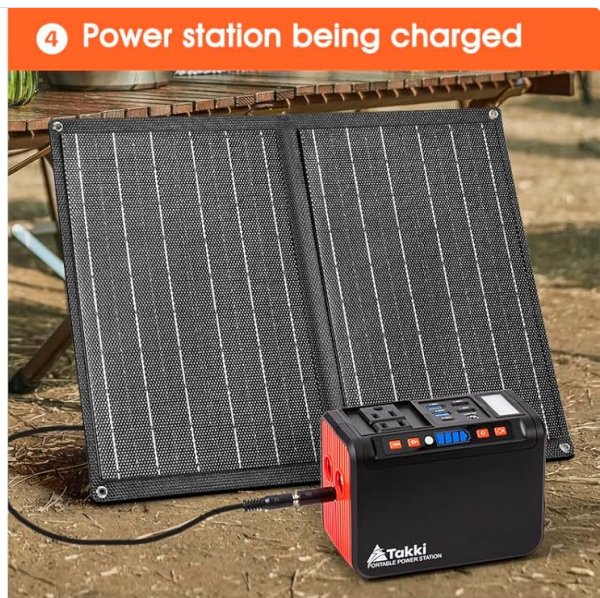
1. Unfold the 21W solar panel completely and place it in direct sunlight. Ensure no shadows are cast on the panel for optimal efficiency.
2. Connect the DC-DC cable to the solar panel.
3. Connect the other end of the DC-DC cable (or use the appropriate 10-in-1 connector) to the power station's DC input port.
4. The battery display on the power station will indicate that it is charging.



① Plug long DC(5.5*2.1mm) cable



② Connect DC to DC adapter



④ Power station being charged



③ Connect cable to power station

Figure 6.1: Steps for connecting the solar panel to the power station.

Note: Under ideal full sunlight conditions, the solar panel can fully charge the power station in 6-7 hours. Charging speed will be slower in morning/afternoon sunlight or cloudy conditions. It is not recommended to power or charge other devices from the power station while it is being charged by the solar panel.

6.2 Using the Power Station to Charge Devices

The power station offers various output ports to charge different devices.



Figure 6.2: The power station providing multiple outputs for various devices.

- **USB Ports (USB-A, USB QC3.0, USB-C PD):** Connect your device's USB charging cable to the appropriate USB port on the power station. The power station will automatically begin charging.
- **AC Outlets:** Press the AC Outlet Switch to activate the AC outlets. The display will show an indicator. Plug your appliance into one of the 110V AC outlets. Ensure the appliance's power consumption does not exceed 80W continuous (120W peak). Press the AC Outlet Switch again to turn off the AC outlets when not in use.
- **DC Output:** Connect your 12V DC device to the DC output port using the appropriate cable.

The 111Wh capacity can provide power for:

- Phones: Approximately 6+ charges
- Tablets: Approximately 3+ charges
- Laptops: Approximately 2+ charges
- Cameras: Approximately 10+ charges
- 40W CPAP machine: Approximately 2 hours
- 60W Portable TV: Approximately 1.5 hours
- 10W Small Fan: Approximately 10+ hours
- 40W Mini Car Refrigerator: Approximately 2 hours

6.3 LED Flashlight and Light Panel

The power station includes an integrated LED flashlight and a light panel for illumination.

- **LED Flashlight:** Press the Flashlight Switch to cycle through 3 brightness levels and an SOS mode.
- **Light Panel:** Press the Light Switch to cycle through 2 brightness levels.

7. MAINTENANCE

- Store the power station in a cool, dry place away from direct sunlight and moisture.
- For long-term storage, charge the unit to 50-80% every 3-6 months to prolong battery life.
- Clean the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Keep the solar panel clean from dust and debris to ensure optimal charging efficiency. Wipe gently with a damp cloth if necessary.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Power station not charging via AC adapter.	AC adapter not properly connected or faulty. Wall outlet not active.	Ensure AC adapter is securely connected to both the power station and a working wall outlet. Try a different outlet.
Power station not charging via solar panel.	Insufficient sunlight. Solar panel not fully unfolded. Cables not properly connected.	Place solar panel in direct, unobstructed sunlight. Fully unfold the panel. Check all cable connections.
Devices not charging from USB/AC/DC ports.	Output port not activated (AC). Device cable faulty. Power station battery depleted. Device power consumption too high.	Ensure AC output is switched on. Check device cables. Recharge the power station. Verify device power requirements are within the power station's limits (80W continuous, 120W peak for AC).
LED flashlight or light panel not working.	Light switch not pressed correctly. Battery depleted.	Press the respective light switch multiple times to cycle modes. Recharge the power station.

9. SPECIFICATIONS

Feature	Detail
Brand	Takki
Model Name	SP81 Max
Power Station Capacity	111 Watt-hours (30,000mAh equivalent)
AC Output Voltage	110 Volts (AC)

Feature	Detail
AC Output Wattage	80 Watts (Running), 120 Watts (Peak)
DC Output	12-16.8V/10A
USB Output	2x 5V/2.4A, 2x QC3.0 (18W Max), 1x Type-C PD (18W Max)
Solar Panel Wattage	21 Watts
Solar Panel Conversion Efficiency	Up to 23%
Power Station Dimensions	5.7"L x 3"W x 4.13"H
Power Station Weight	2.29 lbs (approx. 3.7 lbs total with panel)
Solar Panel Folded Dimensions	10.78 x 8.18 inches
Solar Panel Unfolded Dimensions	16.45 x 10.78 inches
Solar Panel Weight	0.92 lbs
Battery Type	Lithium Ion
Included Components	Power station, 21W solar panel, AC charger, cigarette lighter, user manual, DC-DC cable, 10-in-1 connector

10. WARRANTY AND SUPPORT

Takki products are manufactured to high-quality standards. For warranty information, technical support, or customer service inquiries, please refer to the contact information provided on the product packaging or visit the official Takki website. Please retain your proof of purchase for warranty claims.

For additional support, you may visit the [Takki Store on Amazon](#).