Takki SP81

Takki S81 Portable Solar Generator Power Station User Manual

Model: SP81

1. Introduction

Thank you for choosing the Takki S81 Portable Solar Generator Power Station. This compact and lightweight power solution is designed to provide reliable power for your electronic devices during outdoor activities, emergencies, or off-grid situations. With its integrated 21W solar panel, multiple output ports, and built-in lighting, the S81 offers versatility and convenience wherever you go.

2. Safety Instructions

- Read all instructions before using the product.
- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or injury.
- Do not expose the unit to fire or high temperatures (above 60°C/140°F).
- Do not use or store the unit in direct sunlight or in hot environments.
- Keep the unit away from water, moisture, and corrosive substances.
- Ensure proper ventilation during use and charging to prevent overheating.
- Keep out of reach of children.
- This power station is not recommended to power other devices while charging itself, as this will reduce the service life of the power station.
- The power station is designed for devices up to 80W (Peak 120W). If connected to devices exceeding this limit, it will automatically cut off power for protection.

3. Package Contents

Please check that all items are included in your package:

- Takki S81 Portable Power Station
- Takki 21W Foldable Solar Panel

- AC Charger
- DC to DC Adapter
- Various DC Connectors (10 different sizes)
- User Manual

4. Product Overview

The Takki S81 features multiple input and output options for versatile power delivery.



Figure 4.1: Takki S81 Power Station and 21W Solar Panel
The Takki S81 Portable Power Station shown alongside its accompanying 21W foldable solar panel, ready for use.



Figure 4.2: Input and Output Ports
Close-up view of the Takki S81 power station, highlighting its various input and output ports including AC outlets, DC output, USB-A, and USB-C ports.

4.1. Ports and Outputs

- **2 x AC Outlets:** For powering standard household electronics (up to 80W continuous, 120W peak).
- **1 x 12V DC Output:** For DC-powered devices.
- **2 x USB Ports (5V/2.4A):** Standard USB-A ports for charging smartphones, tablets, etc.
- **2 x USB QC3.0 Ports:** Quick Charge 3.0 enabled USB-A ports for faster charging of compatible devices.
- **1 x Type-C Port (PD 20W):** Power Delivery enabled USB-C port for fast charging modern devices.

4.2. Integrated Lighting

The S81 includes built-in lighting features for convenience:

- **3-level brightness LED flashlight:** Press the LED flashlight switch to cycle through brightness levels and SOS

mode.

- **2-level brightness light panel:** Press the light switch to change brightness.



Figure 4.3: Flashlight and Light Panel
Illustration of the Takki S81's integrated light panel and flashlight, showing their different brightness and SOS modes for various lighting needs.



Figure 4.4: Close-up of Lighting Features
A detailed view of the Takki S81's flashlight and light panel, demonstrating their illumination capabilities.

5. Setup

Before first use, it is crucial to fully charge your Takki S81 Power Station.

5.1. Initial Charge

1. Connect the provided AC charger to the DC input port on the power station.
2. Plug the AC charger into a standard wall outlet.
3. The battery indicator on the power station will show charging progress.
4. Allow approximately 5 hours for a full charge using the AC charger.

5.2. Solar Panel Connection (Optional)

For solar charging, ensure the solar panel is unfolded and placed in direct sunlight.



Figure 5.1: Solar Charging Connection Steps
A visual guide demonstrating the four steps to connect the solar panel to the Takki S81 power station for charging.



Figure 5.2: Solar Panel Connection Detail
Close-up images showing the correct way to connect the DC cable and adapter from the solar panel to the power station.

1. Unfold the 21W solar panel completely.
2. Connect the long DC (5.5*2.1mm) cable from the solar panel to the DC input on the power station. Use the appropriate DC adapter if necessary.
3. Place the solar panel in full, direct sunlight for optimal charging.
4. Solar charging time is approximately 5-6 hours in full sunlight. Charging speed will be slower in less intense sunlight (morning/afternoon).

6. Operating the Power Station

6.1. Powering On/Off

To power on the unit, press and hold the main power button until the display illuminates. To power off, press and hold the main power button again.

6.2. Charging Devices

The Takki S81 can charge multiple devices simultaneously through its various output ports.



Figure 6.1: Charging Multiple Devices

The Takki S81 power station simultaneously charging a smartphone and a portable gaming console, demonstrating its multi-device charging capability.



Figure 6.2: Device Charging Estimates
An infographic showing estimated charging times and capacities for various devices like smartphones, tablets, laptops, and small appliances using the Takki S81.

- Connect your device's charging cable to the appropriate port (AC, DC, USB-A, or USB-C) on the power station.
- Ensure the power station is turned on.
- The power station can charge devices such as mobile phones (approx. 4+ times), tablets (approx. 2+ times), laptops (approx. 1-2 times), cameras (approx. 10+ times), 40W CPAP (approx. 2 hrs), 60W portable TV (approx. 1 hr), 10W small fan (approx. 6+ hrs), and 40W mini car refrigerator (approx. 2 hrs).

6.3. Using the Lights

- **LED Flashlight:** Press the dedicated flashlight button to turn it on. Subsequent presses will cycle through different brightness levels and SOS mode.
- **Light Panel:** Press the dedicated light panel button to turn it on. Subsequent presses will cycle through different brightness levels.

7. Maintenance

- Store the power station in a cool, dry place away from direct sunlight and extreme temperatures.
- Charge the unit at least once every 3-6 months to maintain battery health, even if not in use.
- Clean the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Keep the ports free of dust and debris.

8. Troubleshooting

Problem	Possible Cause	Solution
Power station not turning on.	Battery is depleted.	Charge the power station using the AC charger or solar panel.

Problem	Possible Cause	Solution
Device not charging.	Power station is off; cable is faulty; device requires more power than available.	Ensure power station is on; try a different cable; check device's power requirements against S81's output (80W continuous, 120W peak).
Solar panel not charging effectively.	Insufficient sunlight; panel not fully unfolded; dirty panel surface.	Ensure panel is in direct, full sunlight; fully unfold the panel; clean the panel surface.
Power station automatically shuts off.	Overload protection activated (device exceeds 120W peak).	Disconnect the high-power device. The S81 is not designed for high-wattage appliances like air mattresses or heaters that exceed its output limits.

9. Specifications

Feature	Detail
Brand	Takki
Model Name	SP81
Battery Capacity	88.8 Wh (24,000 mAh)
AC Output	80W (Continuous), 120W (Peak)
DC Output	12V
USB Ports	2 x USB (5V/2.4A), 2 x USB QC3.0
Type-C Port	PD 20W
AC Charging Time	Approx. 5 hours
Solar Charging Time (21W Panel)	Approx. 5-6 hours (in full sunlight)
Dimensions (Power Station)	5.7"L x 3"W x 4.13"H
Weight (Power Station)	2.29 lbs (1.04 kg)
Weight (Solar Panel)	0.92 lbs (0.42 kg)
Material	ABS
Special Features	Portable, Lightweight, USB Port, LED Flashlight, Light Panel

10. Warranty and Support

Takki products are designed for reliability and performance. For warranty information, technical support, or any inquiries regarding your Takki S81 Portable Solar Generator Power Station, please refer to the official Takki brand store or contact customer service through the platform where you purchased the product.
Visit the official Takki Store: Takki Store on Amazon

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

Why does my Takki S81 Power Station AC button turn off after 2 seconds even though it is fully charged?

If your Takki S81 (SP81) power station's AC output turns off within 2 seconds, it is likely due to the Overload Protection feature. According to the manual, this device is designed for electronics up...

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