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› Luvknit PS21K Portable Solar Power Bank User Manual

Luvknit PS21K

Luvknit PS21K Portable Solar Power Bank User Manual

Model: PS21K

1. INTRODUCTION

This manual provides instructions for the safe and efficient use of your Luvknit PS21K Portable Solar Power Bank. Please read this manual thoroughly before using the product and retain it for future reference.



Image: Front view of the Luvknit PS21K Portable Solar Power Bank, showcasing its compact design and solar panel.

2. PRODUCT FEATURES

- **20000mAh Capacity:** High-capacity battery for multiple device charges.
- **Solar Panel:** Integrated solar panel for emergency charging via sunlight.
- **Multiple Output Ports:** Equipped with USB-A and USB-C ports for versatile charging.
- **Fast Charging:** Supports 15W fast charging for compatible devices.
- **Durable Design:** Military-grade flame-retardant ABS+PC shell, dustproof, shockproof, and waterproof (IP67 rating).
- **Emergency LED Flashlight:** Built-in bright LED flashlight with 3 modes (Strong Light, Strobe, SOS).
- **Safety Protections:** Multi-protection chip prevents over-charge, over-current, short-circuit, and over-heat.

See the Difference, Built to Last



Military-Grade
Precision



Weather-Sealed
Integrity



Overcharge
Protection



Tested
Trusted

20000mAh



Image: The Luvknit PS21K power bank charging multiple devices simultaneously, highlighting its multi-port functionality.

3. PACKAGE CONTENTS

Verify that all items are present and in good condition upon unpacking:

- 1 x Luvknit PS21K Solar Charger
- 1 x Carabiner
- 1 x Type-C Cable
- 1 x User Manual (this document)

4. SETUP

4.1 Initial Charging

Before first use, fully charge the power bank via a wall outlet. This ensures the internal battery is properly activated and calibrated for optimal performance.

1. Connect the provided Type-C cable to the power bank's Type-C input port.
2. Connect the other end of the cable to a compatible USB wall adapter (not included).
3. The LED indicators will illuminate to show charging progress. All indicators will be solid when fully charged.
4. Initial charging typically takes 6-8 hours.



Image: Illustration showing the power bank being charged via a wall outlet using a USB-C cable.

4.2 Attaching the Carabiner

The included carabiner allows for easy attachment to backpacks or gear for convenient carrying and solar charging on the go.

1. Locate the small loop on the side of the power bank.
2. Open the carabiner clip and attach it to the loop.
3. Securely close the carabiner.

5. OPERATING INSTRUCTIONS

5.1 Charging Devices

The power bank can charge up to three devices simultaneously using its USB-A and USB-C output ports.

1. Open the protective flap covering the output ports.
2. Connect your device's charging cable to one of the available USB-A or USB-C output ports on the power bank.
3. Connect the other end of the cable to your device.
4. The power bank will automatically begin charging your device. If not, press the power button once to activate charging.
5. The blue LED indicators show the remaining battery level of the power bank.



Image: The power bank connected to a smartphone and a tablet, demonstrating its ability to charge multiple devices.

5.2 Solar Charging

The integrated solar panel provides emergency charging when a wall outlet is unavailable. For daily use, wall charging is recommended for faster and more efficient power replenishment.

1. Place the solar panel directly under strong sunlight.
2. A green LED indicator will light up, indicating that solar charging is active.
3. Ensure the solar panel is clean and unobstructed for maximum efficiency.

Note: Solar charging is slower than wall charging and is primarily intended for emergency power maintenance rather than primary charging.



Your Power Lifeline Stay Connected and Navigate Safely

20000mAh



1.5

Charges

iPad Air



4.5

Charges

iPhone 17



Image: The power bank positioned to receive sunlight, illustrating its solar charging capability in an outdoor setting.

5.3 Using the LED Flashlight

The power bank features a dual LED flashlight with three modes for various lighting needs.

1. **To turn on/off:** Press and hold the power button for 3 seconds.
2. **To cycle modes:** Once the flashlight is on, press the power button briefly to switch between Strong Light, Strobe, and SOS modes.

Safety Protection and Emergency Lighting

100 Feet 

200 Hours 

200 Lumens 



Image: The power bank's dual LED flashlight illuminating a tent, demonstrating its utility in dark environments.

5.4 Video Demonstration

Your browser does not support the video tag.

Video: A demonstration of the Luvknit 20000mAh Solar Power Charger, showcasing its features and usage.

6. MAINTENANCE

- **Cleaning:** Wipe the power bank with a soft, dry cloth. Do not use harsh chemicals or abrasive materials. Ensure the solar panel is clean for optimal performance.
- **Storage:** Store the power bank in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the device to about 50-75% every 3 months to prolong battery life.
- **Water Resistance:** The power bank is IP67 rated for water and dust resistance. Ensure all port covers are securely closed before exposure to water or dust. Do not submerge the device for extended periods.



Image: The power bank being splashed with water and dropped, illustrating its waterproof and shockproof capabilities.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not charging from power bank.	Power bank battery is low or depleted. Cable is faulty or incompatible. Power bank is not activated.	Recharge the power bank. Try a different charging cable. Press the power button once to start charging.
Solar charging is slow or not working.	Insufficient sunlight. Solar panel is dirty or obstructed. Solar charging is for emergency use only.	Place in direct, strong sunlight. Clean the solar panel. Use a wall charger for faster charging.

Problem	Possible Cause	Solution
Flashlight not turning on.	Power button not held long enough. Power bank battery is depleted.	Press and hold the power button for 3 seconds. Recharge the power bank.

8. SPECIFICATIONS

- **Model:** PS21K
- **Battery Capacity:** 20000mAh / 74Wh
- **Input (Type-C):** 5V/3A (MAX)
- **Output (USB-A):** 5V/3A (MAX)
- **Output (Type-C):** 5V/3A (MAX)
- **Solar Panel:** 5V/400mA
- **Operating Temperature:** -14°F to 140°F (-10°C to 60°C)
- **Dimensions:** 5.63 x 2.91 x 0.85 inches (14.3 x 7.4 x 2.16 cm)
- **Weight:** 8.3 ounces (235 grams)
- **Waterproof Rating:** IP67

9. WARRANTY AND SUPPORT

Luvknit provides a 12-month warranty for this product, covering manufacturing defects from the date of purchase. This warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear. For warranty claims, technical support, or product inquiries, please contact Luvknit customer service through the retailer where the product was purchased or visit the official Luvknit website.

For more information and support, you can visit the [Luvknit Store on Amazon](#).

10. SAFETY INFORMATION

- Do not expose the power bank to fire or extreme heat.
- Do not disassemble, puncture, or modify the device.
- Keep out of reach of children.
- Avoid dropping or subjecting the device to severe impacts.
- Do not use if the device is damaged or swollen.
- Dispose of the product responsibly according to local regulations.