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› Luvknit PS31H 20000mAh Solar Power Bank User Manual

## Luvknit PS31H

# Luvknit PS31H 20000mAh Solar Power Bank User Manual

Model: PS31H

## 1. INTRODUCTION

Thank you for choosing the Luvknit PS31H 20000mAh Portable Solar Power Bank. This device is designed to provide reliable power for your electronic devices, especially in outdoor and emergency situations. It features multiple charging outputs, solar charging capability, and a durable, rugged design.

## 2. WHAT'S IN THE BOX

- 1 x Luvknit PS31H 20000mAh Solar Power Bank
- 1 x Carabiner
- 1 x User Manual

## 3. PRODUCT FEATURES

### 3.1 Multi-Device Charging

This power bank is equipped with built-in Lightning, Type-C, and USB-A cables, along with dual USB-A ports and one Type-C port. It also supports Qi wireless charging, allowing you to charge up to 6 devices simultaneously.

# 20000mAh

Ultra-high capacity

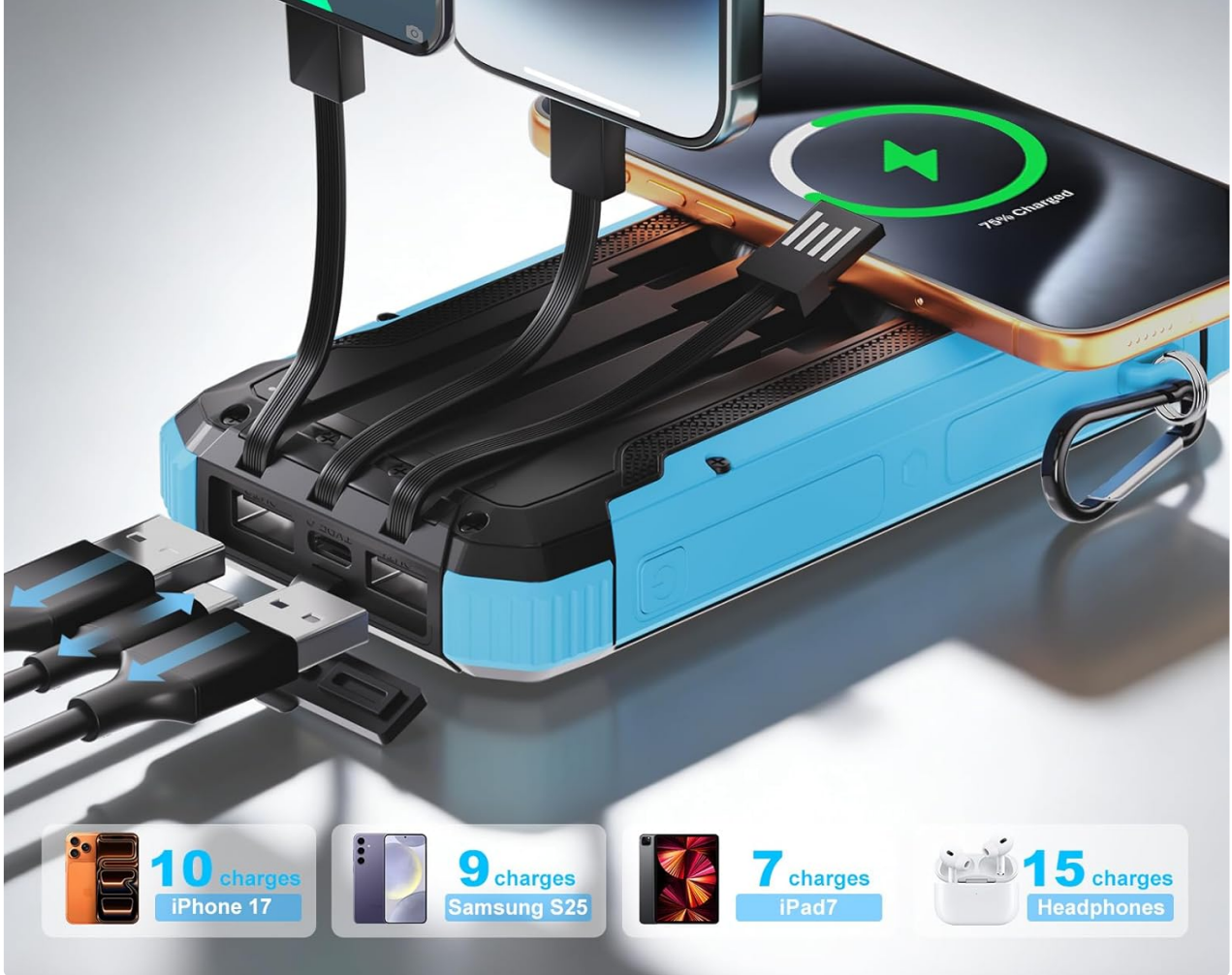


Image: The Luvknit PS31H power bank connected to and wirelessly charging multiple devices, demonstrating its versatile output options.

### 3.2 High Capacity & Safety

With a 20000mAh lithium battery, the power bank provides stable and long-lasting energy. It includes a smart protection system against overcharging, overheating, and short circuits.

# Next-Gen Solar Conversion Chip Inside

Precision-Engineered Chip for Faster, Smarter Charging



Temperature Protection



Overdischarge Protection



Overvoltage Protection



Short Circuit Protection



Overcharge Protection



Overcurrent Protection



Overheat Protection



Freeze-Resistant Protection



Image: Diagram illustrating the internal precision-engineered chip and various protection mechanisms of the Luvknit PS31H power bank.

## 3.3 Dual Charging Methods

Recharge the power bank using its high-efficiency solar panel for outdoor use or via the fast Type-C input for quick charging indoors.



Image: The Luvknit PS31H power bank being recharged both through a wall adapter and by its solar panel under sunlight.

### **3.4 Rugged and Emergency Ready**

Constructed from durable ABS material, it is shockproof, waterproof (IPX5), and dustproof. It features a 3-mode LED flashlight (steady, strobe, SOS) for emergencies.

# Essential Outdoor Power Companion

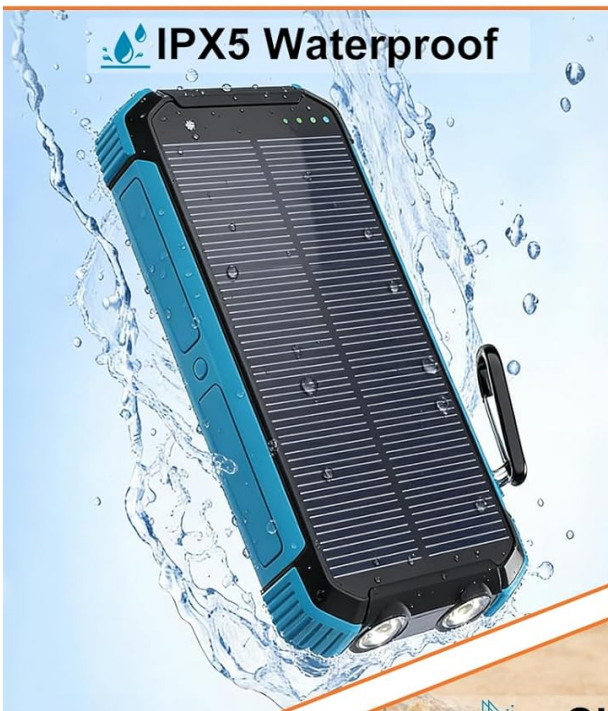


Image: Visual representation of the Luvknit PS31H power bank's waterproof, dustproof, and shockproof capabilities.

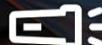
# Emergency Power When It Matters Most



(( SOS )) SOS mode



Strobe mode



Steady mode

200  
Feet



210  
Hours



Power Outage



Camping



Night Driving

Image: The Luvknit PS31H power bank's dual LED flashlight illuminating various outdoor and emergency situations.

## 4. SETUP

### 4.1 Initial Charging

Before first use, fully charge the power bank using a wall adapter via the Type-C input port. This ensures the internal battery is calibrated and ready for optimal performance.

### 4.2 Attaching the Carabiner

Attach the included carabiner to the designated loop on the power bank for easy portability and secure attachment to backpacks or gear.

## 5. OPERATING INSTRUCTIONS

### 5.1 Charging Devices

1. **Using Built-in Cables:** Pull out the appropriate built-in cable (Lightning, Type-C, or USB-A) and connect it to your device.
2. **Using USB Ports:** Open the protective cover on the side to access the dual USB-A output ports and the Type-C output port. Connect your device's charging cable to the desired port.
3. **Wireless Charging:** Place your Qi-enabled device on the wireless charging pad located on the back of the power bank. Ensure the device is centered for efficient charging.
4. The power bank will automatically begin charging. The LED indicators will show the remaining battery level.

## 5.2 Recharging the Power Bank

1. **Solar Charging:** Place the power bank with its solar panel facing direct sunlight. The solar indicator light will illuminate when charging. Solar charging is ideal for maintaining charge or emergency situations, but slower than wall charging.
2. **Wall Charging (Fast Charging):** Connect a Type-C cable to the power bank's Type-C input port and plug the other end into a wall adapter. This method provides the fastest recharge.

## 5.3 Using the LED Flashlight

Press and hold the power button for approximately 3 seconds to turn on the dual LED flashlight. Press the button again to cycle through the modes: Steady, Strobe, SOS. Press and hold again to turn off the flashlight.

## 6. MAINTENANCE

- Keep the power bank away from extreme temperatures and direct heat sources.
- Avoid dropping or subjecting the device to strong impacts.
- Clean the solar panel and device surface with a soft, dry cloth. Do not use harsh chemicals.
- If not in use for extended periods, charge the power bank at least once every three months to maintain battery health.
- Ensure all port covers are securely closed when not in use to maintain water and dust resistance.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not charging from power bank.	Low power bank battery, incorrect cable, device not compatible, loose connection.	Recharge power bank. Ensure correct cable is used and securely connected. Check device compatibility.
Power bank not charging via solar.	Insufficient sunlight, dirty solar panel.	Place in direct, strong sunlight. Clean solar panel surface.
Wireless charging not working.	Device not Qi-enabled, misaligned on pad, thick phone case.	Ensure device supports Qi wireless charging. Realign device on the pad. Remove thick phone cases.
Flashlight not turning on.	Low power bank battery, incorrect button press.	Recharge power bank. Press and hold the power button for 3 seconds.

## 8. SPECIFICATIONS

**Model Number:** PS31H

**Battery Capacity:** 20000mAh

**Product Dimensions:** 6.29 x 3.34 x 0.77 inches

**Item Weight:** 12 ounces

**Input (Type-C):** 5V/3A

**Output (USB-A1/A2):** 5V/3A

**Wireless Output:** 5W

**Solar Panel:** 300mA

**Special Features:** Fast Charging, Flashlight, Wireless Charging, Built-in Cables

**Material:** Durable ABS

**Protection:** Shockproof, Waterproof (IPX5), Dustproof, Overcharge, Overheat, Short Circuit

## 9. WARRANTY AND SUPPORT

The Luvknit PS31H Solar Power Bank comes with a **12-month warranty** and **lifetime customer support**. For any issues or inquiries, please refer to the contact information provided in your purchase documentation or visit the official Luvknit website.

Luvknit is committed to providing high-quality products and customer satisfaction. Our products undergo rigorous testing and adhere to safety certifications, including official fire safety certification.

### Official Fire Safety Certification



Image: Certificates of conformity for the Luvknit power bank, highlighting its adherence to fire safety standards.

### Advanced Safety Protections

The power bank incorporates multiple safety features to protect against over-discharge, overvoltage, short circuits, electromagnetic interference, temperature fluctuations, and overcurrent.

## Advanced Technology.Certified Safety



Image: Icons representing the comprehensive safety protections built into the Luvknit PS31H power bank.