

UDPOWER SP120

UDPOWER 120W Portable Solar Panel User Manual

Model: SP120

[Introduction](#) [Safety](#) [Contents](#) [Features](#) [Setup](#) [Operation](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty](#)

1. INTRODUCTION

Thank you for choosing the UDPOWER 120W Portable Solar Panel. This manual provides essential information for the safe and efficient use of your solar panel. Please read it thoroughly before operation and retain it for future reference. The UDPOWER 120W Portable Solar Panel is designed to provide reliable and efficient power for your portable power stations, generators, and other compatible devices. Its foldable and lightweight design makes it ideal for outdoor activities such as camping, RV trips, and emergency backup power.



Image: The UDPOWER 120W Portable Solar Panel in its folded state, showcasing its compact design. An included charging cable and a visual representation of the panel's folded form are also displayed.

2. IMPORTANT SAFETY INFORMATION

Please observe the following safety precautions to prevent injury or damage to the product:

- Do not attempt to disassemble, repair, or modify the solar panel.
- Avoid exposing the solar panel to fire or extreme heat.
- Do not immerse the solar panel in water. While weather-resistant, prolonged submersion can cause damage.
- Handle the panel with care to avoid physical impact or dropping.
- Keep the solar panel away from children and pets.
- Ensure all connections are secure before use.
- Do not step on or place heavy objects on the solar panel.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x UDPOWER 120W Portable Solar Panel
- 1x Charging Cable (Type 1/2/3, varies by kit)
- Integrated Kickstand

4. PRODUCT FEATURES

The UDPOWER 120W Portable Solar Panel offers advanced features for optimal performance:

- **High Efficiency:** Achieves up to 22% conversion efficiency with 120W output for rapid charging.
- **Durable & Weather-Resistant:** Constructed with A-class monocrystalline silicon cells and an IP65 waterproof rating, ensuring longevity in various environmental conditions.
- **Ultra-Portable Design:** Folds compactly to 18.7" x 31.5" x 0.59" and weighs only 8.93 lbs, making it easy to transport and store. Unfolded dimensions are 34.4" x 31.5" x 0.14".
- **Simplified Connectivity:** Features UDPOWER technology for tool-free plug-and-play connections, including parallel connection capability to double charging speed without polarity confusion.
- **Wide Compatibility:** Includes various cable types (Type 1/2/3, depending on kit) to support a broad range of devices, from smartphones to power stations.
- **Adjustable Angle Bracket:** An integrated kickstand allows for 60°-90° tilt adjustment to maximize sunlight exposure throughout the day.
- **Long Lifespan:** Designed for over 10 years of service life.

High-Efficiency Solar Energy Absorption

Enhanced weak light performance with
anti-reflective coating technology



23%
Solar Efficiency



18V
Open Circuit Voltage



120W
Output Power

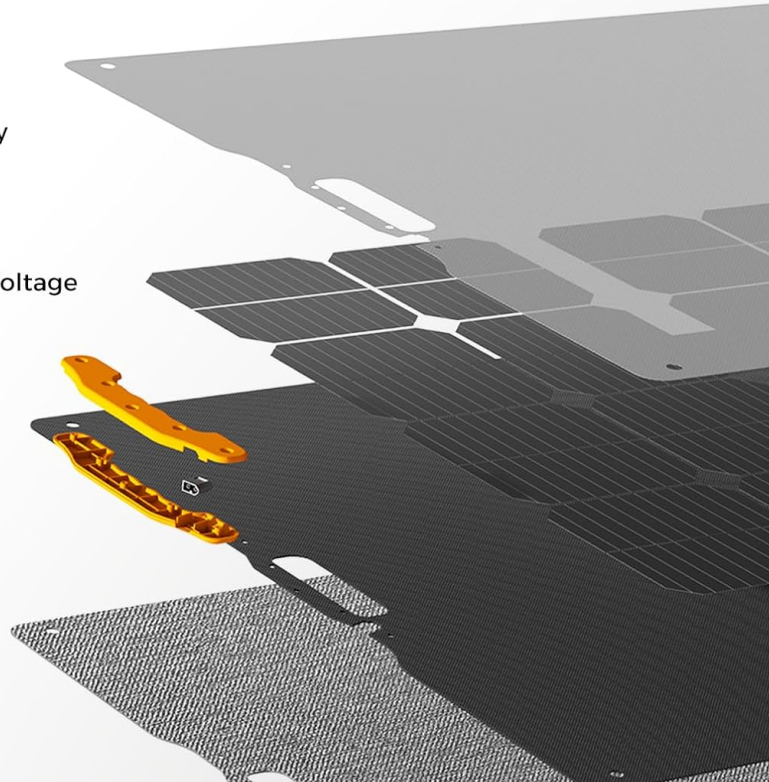


Image: A cutaway diagram illustrating the high-efficiency layered construction of the solar panel, emphasizing its 23% solar efficiency, 18V open circuit voltage, and 120W output power.

Built for Extreme Weather Adaptability

Designed with IP68 for durability, heat resistance, waterproofing, and dustproofing



Weather Resistant



ETFE Film



5X More Durable

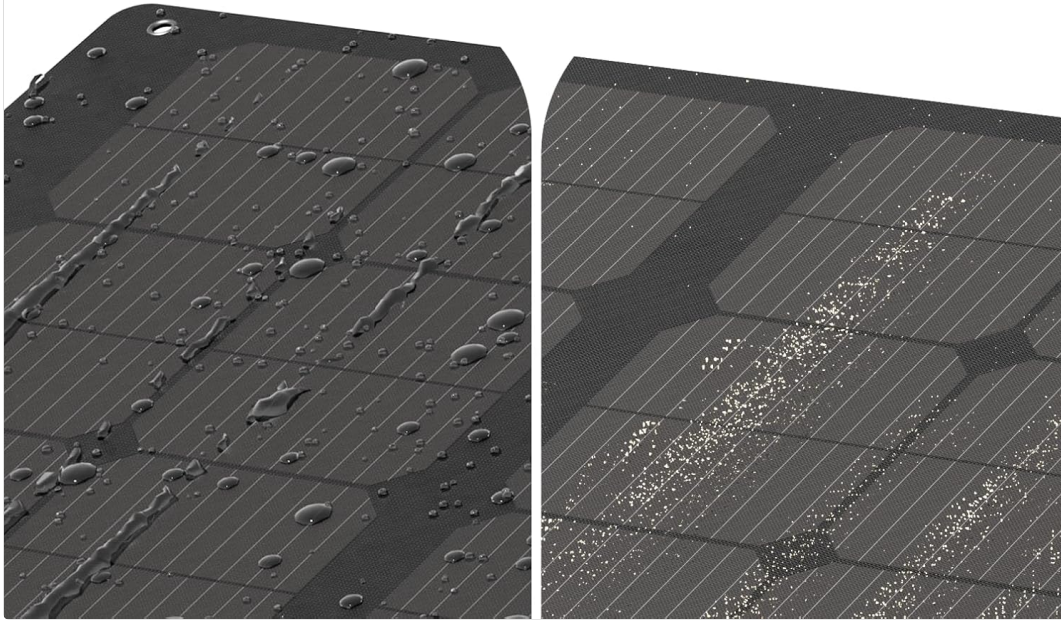


Image: A detailed view of the solar panel's surface, illustrating its IP68 waterproof and dustproof capabilities with water droplets and dust particles.

5. SETUP GUIDE

Follow these steps to set up your UDPOWER 120W Portable Solar Panel:

1. **Unfold the Panel:** Carefully unfold the solar panel completely.
2. **Position the Kickstand:** Extend the integrated kickstand(s) on the back of the panel.
3. **Adjust for Sunlight:** Angle the solar panel towards the sun. For optimal efficiency, adjust the kickstand to achieve a 60°-90° tilt, ensuring the panel faces the sun directly.
4. **Connect to Device:** Use the provided charging cable to connect the solar panel to your compatible power station or device. Ensure a secure connection.

Optimized for Maximum Solar Efficiency

Integrated stand allows adjustable angles for optimal sunlight absorption



Image: The solar panel deployed on a grassy surface, demonstrating the use of its integrated kickstand to achieve an optimal angle for sunlight absorption.

Compact and Portable Solar Panel on the Go

18.7" x31.5" x0.59"
Folded Size

8.93 Lbs
Weight

34.4" x31.5" x0.14"
Unfolded Size



Image: A person demonstrating the portability of the solar panel by easily carrying it and placing it into a vehicle's trunk.

6. OPERATING INSTRUCTIONS

Once set up, the solar panel will begin converting sunlight into electrical energy. Observe the charging indicator on your connected power station or device to confirm charging is active.

6.1. Single Panel Operation

Connect the solar panel directly to your power station using the appropriate cable. Position the panel in direct sunlight for best results.

6.2. Parallel Connection (for increased output)

To double your charging speed, you can connect two UDPOWER solar panels in parallel using a compatible Y-connector (sold separately). UDPOWER technology ensures tool-free connection without polarity concerns.

Simplified Connectivity

With UDPOWER technology, feature plug-and-play ports for effortless operation



Image: Two UDPOWER solar panels connected in parallel to a power station, demonstrating simplified connectivity for enhanced power generation in an outdoor setting.

Effortless Solar Power Expansion

Leverage UDPOWER technology to parallel connect solar panels for increased output

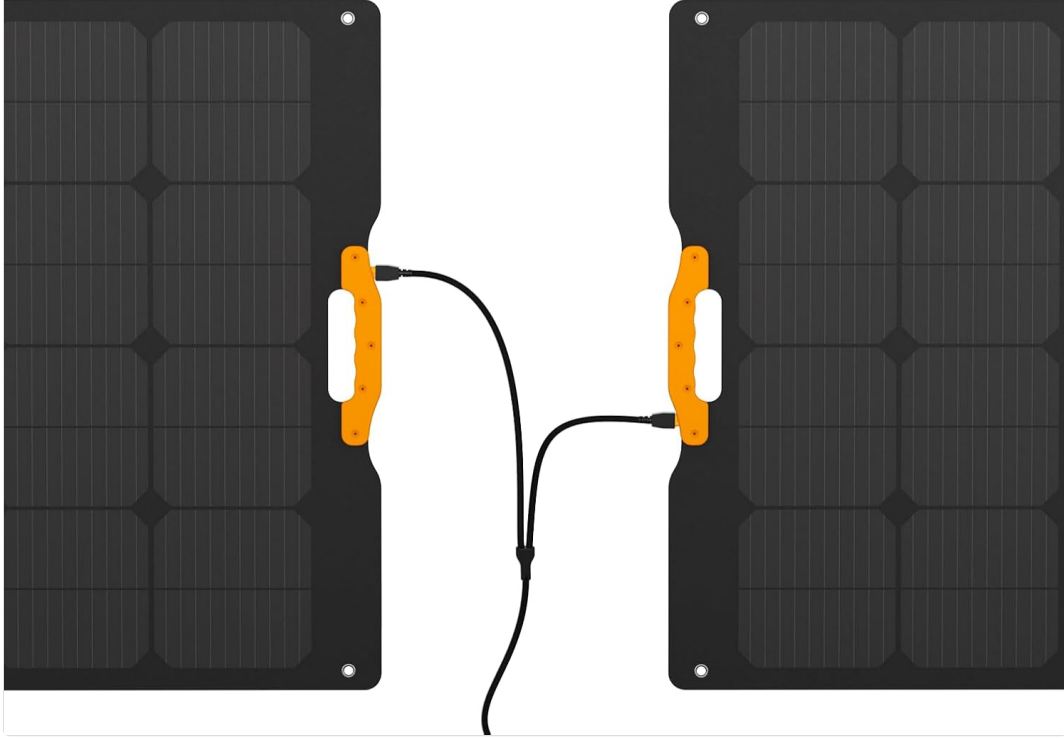


Image: A schematic illustrating the effortless parallel connection of two solar panels using a Y-connector to expand power output.

Fast-Charging Solar Generators



Image: A family enjoying a camping trip, with the UDPOWER solar panel actively charging a power station, highlighting its utility for fast-charging various UDPOWER generator models (C200, C400, C600, S1200) with estimated charging times.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your solar panel:

- **Cleaning:** Regularly wipe the surface of the solar panel with a soft, damp cloth to remove dust, dirt, or debris. Avoid abrasive cleaners or harsh chemicals.
- **Storage:** When not in use, fold the solar panel and store it in a dry, cool place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically check cables and connectors for any signs of wear or damage. Replace damaged components immediately.

8. TROUBLESHOOTING

If you encounter issues with your solar panel, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power output	Not enough sunlight; Panel not angled correctly; Loose connection; Damaged cable/panel.	Move to direct sunlight; Adjust panel angle; Check all connections; Inspect cables/panel for damage.
Low power output	Partial shading; Dirty panel surface; Suboptimal angle; Cloudy weather.	Ensure no shading; Clean panel surface; Re-adjust angle; Output will naturally be lower in cloudy conditions.

Problem	Possible Cause	Solution
Panel overheating	Prolonged exposure to extreme heat without ventilation.	Ensure adequate airflow around the panel. While designed for outdoor use, extreme temperatures can affect performance.

If the problem persists after trying these solutions, please contact UDPOWER customer support.

9. SPECIFICATIONS

Feature	Detail
Brand	UDPOWER
Model Number	SP120
Maximum Power	120 Watts
Efficiency	22.3%
Maximum Voltage	17.8 Volts
AC Adapter Current	6.17 Amps
Material	Plastic (Monocrystalline Silicon Cells)
Product Dimensions (Unfolded)	34.4"L x 31.5"W x 0.14"H
Product Dimensions (Folded)	18.7"L x 31.5"W x 0.59"H
Item Weight	8.93 Pounds
Special Features	Built-in Kickstand, Carrying Handles, Foldable, Portable
Included Components	1x Charging Cable, 1x UDPOWER 120W Solar Panel, Kickstand
Upper Temperature Rating	85 Degrees Celsius

10. WARRANTY AND SUPPORT

The UDPOWER 120W Portable Solar Panel comes with a **12-month manufacturer warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact UDPOWER customer service through the official UDPOWER website or your retailer's support channels. Please have your purchase receipt and product model number (SP120) available when contacting support.

UDPOWER is committed to providing durable and reliable power solutions, backed by over 30 years of industry expertise.