BigBlue X60

BigBlue 60W Portable Compact Solar Panel User Manual

Model: X60 | Brand: BigBlue

1. INTRODUCTION

The BigBlue 60W Portable Compact Solar Panel (Model X60) is designed to provide a versatile and efficient power solution for various electronic devices. Featuring advanced N-type solar cells, it offers high conversion efficiency and robust performance in diverse outdoor conditions. Its foldable design and multiple output ports make it ideal for camping, hiking, emergency preparedness, and other off-grid power needs. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your solar panel.

2. WHAT'S IN THE BOX

Carefully unpack all components and ensure everything listed below is present and in good condition. If any items are missing or damaged, please contact BigBlue customer support.

- 1x BigBlue Solarpowa X60 Solar Panel
- 1x Y-Branch cable (DC5525 to XT60/DC5521)
- 1x USB-C to USB-C Cable
- 1x DC Connector Set (DC5521-DC7909x1, DC5521-DC8020 x1, DC5521-DC35135x1)
- 1x User Manual

It has fold-out legs, so you can point it directly at the sun to maximize low-angled morning and afternoon light.

Figure 2.1: All components included in the BigBlue 60W Solar Panel package.

3. SETUP

Follow these steps to set up your BigBlue 60W Solar Panel for optimal performance.

3.1 Unfolding the Solar Panel

1. Place the folded solar panel on a flat, stable surface.

2. Unfasten the straps securing the folded panels.

3. Carefully unfold the panels completely until they lay flat. The panel measures approximately 921mm (36.26 inches) when fully unfolded.

Figure 3.1: The BigBlue 60W Solar Panel in its fully unfolded state.

3.2 Deploying the Kickstands

The integrated kickstands allow you to angle the solar panel towards the sun for maximum efficiency.

1. Locate the two foldable kickstands on the back of the solar panel.

2. Extend each kickstand and secure it into the designated slots to prop up the panel.

3. Adjust the angle of the panel to face the sun directly. For optimal performance, aim for a 90-degree angle between the sun's rays and the panel surface.

Figure 3.2: Proper deployment of the kickstands for sun optimization.

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Video 3.1: A demonstration of unpacking and setting up the BigBlue X60 Solar Panel, including unfolding and deploying the kickstands.

4. OPERATION

The BigBlue 60W Solar Panel offers multiple output options for charging various devices.

4.1 Connecting Devices

The control box on the back of the panel features the following output ports:

- **USB-A Port:** 20W output for smartphones, tablets, and other USB-A compatible devices.
- **USB-C PD Port:** 45W Power Delivery output for fast charging compatible smartphones, tablets, laptops, and power banks.
- **DC5525 Port:** 60W output (23.2V/2.59A) for connecting to portable power stations using the included Y-branch cable and DC adapter set.

To charge a device:

1. Ensure the solar panel is unfolded and positioned in direct sunlight.

2. Connect your device or power station to the appropriate output port using the provided cables or your device's charging cable.

3. The LED indicator on the control box will illuminate when power is being generated and supplied.

Figure 4.1: The control box with various output ports.

UNPARALLELED COMPATIBILITY

DC5525: 23.2V⎓2.59A

USB-A: 5V⎓3A, 9V⎓2A, 12V⎓1.67A

USB-C PD45W:
5V⎓3A, 9V⎓3A, 12V⎓3A, 15V⎓3A,
20V⎓2.25A

USB-A   USB-C

Come with the DC5525 to XT60/DC5521 output cable
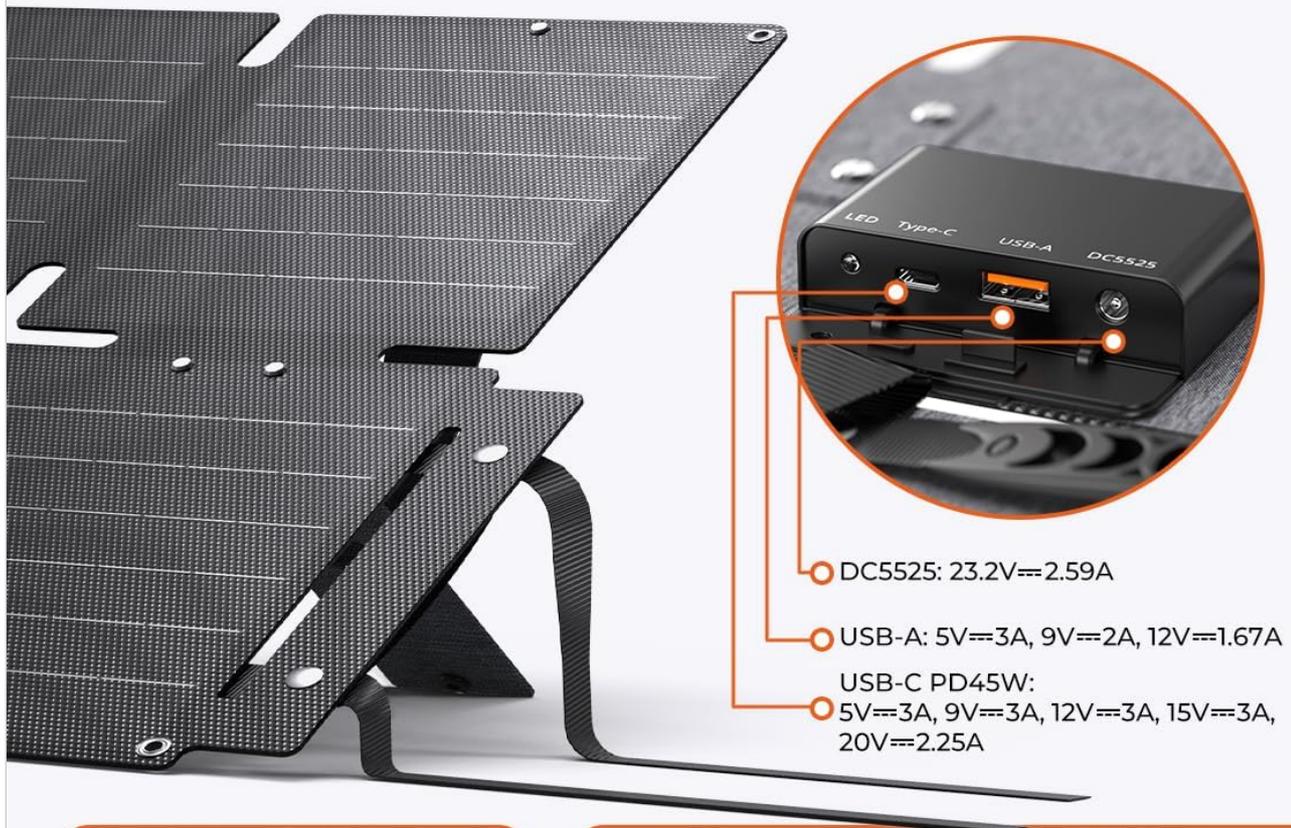and DC Connector × 3.

Figure 4.2: Compatibility with various devices and power stations.

4.2 Optimal Charging Conditions

For best charging results, ensure the solar panel is:

- Placed in direct, unobstructed sunlight.
- Angled directly towards the sun. Adjust the kickstands periodically as the sun moves.
- Free from shadows, dirt, or debris on the solar cells.

Note: This product does not store electricity. It must be used in direct sunlight while connected to your devices or a power station.

5. MAINTENANCE

Proper maintenance will extend the lifespan and efficiency of your solar panel.

5.1 Cleaning

- Regularly wipe the solar panels with a soft, damp cloth to remove dust, dirt, or debris.
- Avoid using abrasive cleaners or harsh chemicals, as these can damage the panel surface.
- Ensure the panel is dry before folding and storing.

5.2 Storage

- When not in use, fold the solar panel compactly and secure it with the integrated straps.
- Store the panel in a cool, dry place away from direct sunlight and extreme temperatures.

5.3 IP68 Waterproof Rating

The BigBlue solar panel features an IP68 waterproof rating, providing excellent protection against dust ingress and prolonged water immersion. However, please note that the junction box (where the output ports are located) is **not** waterproof. Ensure the junction box is protected from water exposure.

WHAT'S IN THE BOX?

1. SolarPowa X60 x 1
2. Y-Branch cable (DC5525 to XT60/DC5521) x 1
3. USB-C to USB-C Cable x 1
4. DC Connector Set (DC5521-DC7909 x 1, DC5521-DC8020 x 1,DC5521-DC35135 x 1)
5. User Manual x 1

Figure 5.1: The solar panel's IP68 waterproof feature.

6. TROUBLESHOOTING

If you encounter issues with your BigBlue 60W Solar Panel, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power output / Device not charging.	Insufficient sunlight. Panel not angled correctly. Panel surface is dirty or obstructed. Cable connection is loose or incorrect. Device is not compatible or requires specific voltage/current.	Move panel to direct, unobstructed sunlight. Adjust kickstands to angle panel directly towards the sun. Clean the panel surface. Ensure all cables are securely connected to the correct ports. Verify device compatibility and power requirements.
Slow charging speed.	Partial shading on the panel. Cloudy weather or low light conditions. Cable quality or length. Device's charging input limitations.	Ensure no shadows fall on the panel. Charging efficiency will naturally decrease in non-ideal light. Use high-quality, short charging cables. Some devices may not accept full power from the panel directly; consider using a power bank as an intermediary.
LED indicator not lit.	No power generation. Faulty connection.	Ensure panel is in direct sunlight. Check all cable connections.

If the problem persists after trying these solutions, please contact BigBlue customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Brand	BigBlue
Model	X60
Maximum Power	60 Watts
Solar Cell Efficiency	24.7%
Material	ETFE
Product Dimensions (Unfolded)	921mm L x 522mm W (36.26"L x 20.55"W)
Folded Size	10.16"L x 8.43"W x 2.36"H
Item Weight	5.7 Pounds (approx. 1.95kg)
Output Voltage (DC5525)	23.2 Volts
Output Current (DC5525)	2.59 Amps
USB-C Output	PD 45W (5V=3A, 9V=3A, 12V=3A, 15V=3A, 20V=2.25A)

Feature	Detail
USB-A Output	20W (5V=3A, 9V=2A, 12V=1.67A)
Waterproof Rating	IP68 (Note: Junction box is not waterproof)
Special Features	Portable, Kickstand, Folding
Included Components	SolarPowa X60, Y-Branch cable, USB-C to USB-C Cable, DC Connector Set

8. WARRANTY & SUPPORT

BigBlue stands behind the quality of its products.

8.1 Warranty

The BigBlue 60W Portable Compact Solar Panel comes with a **2-Year Quality Guarantee** from the date of purchase. This warranty covers manufacturing defects and issues arising from normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

8.2 Customer Support

For any questions, concerns, or technical assistance, please contact BigBlue customer support. Our friendly online support team is available to help you. Please have your product model (X60) and purchase information ready when contacting support.
You can also visit the official BigBlue store on Amazon for more information and resources: BigBlue Amazon Store

Documents - BigBlue – X60

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