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> BigBlue Portable 25W Solar Panel Charger User Manual (Model: 90b650fd-32da-41b0-bf88-be1edd6620ab)

BigBlue 90b650fd-32da-41b0-bf88-be1edd6620ab

BigBlue Portable 25W Solar Panel Charger

User Manual - Model: 90b650fd-32da-41b0-bf88-be1edd6620ab

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your BigBlue Portable 25W Solar Panel Charger. Please read these instructions carefully before using the product to ensure optimal performance and longevity. This solar charger is designed to provide portable power for various electronic devices using solar energy, making it ideal for outdoor activities and emergency situations.



Image: The BigBlue 25W Solar Panel Charger unfolded, ready for use.

2. WHAT'S INCLUDED

Upon unpacking, please verify that all the following components are present:

- 1x BigBlue 25W Solar Panel Charger
- 1x USB-C to USB-C Cable
- 2x Carabiners
- 1x Elastic Strap
- 1x User Manual (this document)

What's in the box ?

SolarPowa P25 * 1

USB-C to USB-C Cable * 1

Carabiners * 2

User manual * 1



Image: All items included in the BigBlue 25W Solar Panel Charger package.

3. KEY FEATURES

- **Compact and Lightweight:** Designed for easy portability, this 25W solar charger folds down to a compact size (4.65x6.42x1.38 inches) and weighs only 0.84 lbs, making it suitable for camping, hiking, and backpacking.
- **Efficient and Smart Charging:** Equipped with USB-A (5V/2.4A) and USB-C (5V/3A) ports, allowing simultaneous charging of two devices. Built-in smart charging technology optimizes power delivery for safe and efficient charging.
- **Premium-Grade Solar Cells:** Utilizes N-type solar cells without front metal lines, capturing more sunlight for increased electricity generation and maintaining up to 25.4% power conversion efficiency.

- **Durable with Extended Lifespan:** Constructed with ETFE coating, UV-resistant EVA, and high-efficiency solar cells, along with a solid baseplate to resist cracks, ensuring consistent outdoor performance and durability.
- **IP68 Water and Dust Resistance:** Rated IP68, this portable solar panel is designed to withstand splashes, spills, and light rain, providing reliable performance in various outdoor conditions.

ULTRA-COMPACT AND LIGHTWEIGHT



Image: The compact size of the folded solar panel compared to a tablet.

WIDE COMPATIBILITY



USB-A:
5V/2.4A Max.



USB-C:
5V/3A Max.



Total Outputs:
5V/4A Max.



Cell phones



Power Banks



USB Fan



Bluetooth
headphone



Bluetooth
Speakers



Tablets

Image: Demonstrating wide compatibility with various devices.

IP68 WATERPROOF LEVEL

(The junction box is not waterproof)



Image: The solar panel's IP68 waterproof rating.

4. SETUP

1. **Unfold the Solar Panel:** Carefully unfold the solar panel completely to expose all solar cells.
2. **Position for Sunlight:** Place the solar panel in direct sunlight. For optimal charging, ensure the panels are perpendicular to the sun's rays. Avoid shaded areas, as even partial shading can significantly reduce efficiency.
3. **Secure the Panel:** Use the included carabiners or elastic strap to secure the panel to a backpack, tent, or other stable surface to prevent it from moving or being blown away by wind.



Image: The solar panel unfolded and positioned for maximum sun exposure.

5. OPERATING INSTRUCTIONS

1. **Connect Your Device:** Use a compatible USB cable (such as the included USB-C to USB-C cable) to connect your electronic device to either the USB-A (5V/2.4A Max) or USB-C (5V/3A Max) output port on the solar charger.
2. **Begin Charging:** Once connected and exposed to sufficient sunlight, the solar charger will automatically begin charging your device. The charging indicator on your device should activate.
3. **Monitor Charging:** Periodically check your device's charging status. Charging speed will vary depending on sunlight intensity.
4. **Disconnect After Use:** Once your device is charged, disconnect it from the solar panel.

INDUSTRY-LEADING LAMINATION TECHNOLOGY

Higher efficiency
solar cells

25.4%[⚡]



Image: Solar panel charging a device in an outdoor environment.

6. IMPORTANT USAGE NOTES

- 1. No Built-in Battery:** The solar charger does not contain a built-in battery. It requires direct sunlight to operate and must be connected to your handheld device while exposed to sunlight. It is not a power bank.
- 2. Automatic Restart Function:** The charger features an automatic restart function. If sunlight is weak or clouds pass by, the solar charger will repeatedly restart. This can potentially drain power from the connected device if not monitored.
- 3. Optimal Angle and Temperature:** It is recommended to position the device at a 90-degree angle perpendicular to the sunlight for best efficiency. The ideal operating temperature for solar panels is around

25°C (77°F). Efficiency decreases as the temperature increases.



Image: Visual guide for important usage considerations.

7. SPECIFICATIONS

Feature	Detail
Brand	BigBlue
Model Number	90b650fd-32da-41b0-bf88-be1edd6620ab
Wattage	25 watts
Output Current (USB-A)	2.4 Amps (Max)
Output Current (USB-C)	3 Amps (Max)
Output Voltage	5V
Total USB Ports	2 (USB Type A, USB Type C)
Waterproof Rating	IP68 (Note: Junction box is not waterproof)
Folded Dimensions	4.65 x 6.42 x 1.38 inches
Item Weight	0.84 lbs (approximately 1 Pound)
Compatible Devices	E-Book Readers, Flashlight, Smartwatches, Speakers, Tablets, Cellphones (iPhone, Samsung Galaxy, LG, Honor, HTC, Huawei, Xiaomi)

8. MAINTENANCE

- **Cleaning:** Wipe the solar panels with a soft, damp cloth to remove dust or dirt. Do not use harsh chemicals or abrasive materials.

- **Storage:** When not in use, fold the solar panel and store it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the panel and cables for any signs of damage. Do not use if damaged.

9. TROUBLESHOOTING

- **Device Not Charging:**

- Ensure the solar panel is in direct, unobstructed sunlight.
- Check that the USB cable is securely connected to both the solar panel and your device.
- Verify that your device is compatible with the charger's output specifications.
- Try a different USB cable or device to rule out cable/device issues.

- **Slow Charging:**

- Adjust the angle of the solar panel to be perpendicular to the sun for maximum exposure.
- Ensure no part of the panel is shaded.
- Clean the surface of the solar panels if they are dirty.
- Charging speed is naturally slower on cloudy days or in low light conditions.

- **Intermittent Charging:**

- This can occur due to fluctuating sunlight (e.g., passing clouds). The auto-restart function will attempt to resume charging when sufficient sunlight returns.
- If this is problematic for your device, consider connecting a power bank to the solar panel first, then charge your device from the power bank.

10. WARRANTY AND SUPPORT

The BigBlue Portable 25W Solar Panel Charger comes with a **2-Year Warranty**. For any issues or inquiries regarding your solar charger, please contact our dedicated customer support team for prompt resolution. Contact information can typically be found on the product packaging or the official BigBlue website. BigBlue is committed to providing high-quality energy solutions and excellent customer service.