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BigBlue SolarPowa 30

BigBlue SolarPowa 30W Portable Solar Panel Charger User Manual

Model: SolarPowa 30 | Brand: BigBlue

1. INTRODUCTION

Thank you for choosing the BigBlue SolarPowa 30W Portable Solar Panel Charger. This manual provides essential information for the safe and efficient use of your solar charger. Designed for outdoor enthusiasts, this portable solar panel offers a reliable power source for your electronic devices using solar energy.

The SolarPowa 30 features fast-charging USB-A and PD 20W USB-C ports, along with a DC 5521 output, making it compatible with a wide range of devices including smartphones, tablets, flashlights, power banks, and small power stations. Its high-efficiency monocrystalline panels and durable, waterproof design ensure performance in various outdoor conditions.

2. WHAT'S INCLUDED

Upon unpacking your BigBlue SolarPowa 30W Solar Panel Charger, please ensure all the following items are present:

- 1x BigBlue SolarPowa 30W Portable Solar Panel Charger
- 1x USB-C to USB-C Cable
- 1x DC 5525 to DC 5525 Cable
- 2x Carabiners
- 1x User Manual

WHAT YOU GET

SolarPowa 30 * 1

USB-C to USB-C Cable * 1

Carabiners * 2

User Manual * 1



Image: All items included in the BigBlue SolarPowa 30W package.

3. PRODUCT FEATURES

3.1 Versatile Charging Ports

The SolarPowa 30 is equipped with multiple output options to charge a variety of devices:

- **USB-A Port:** Fast-charging (5V/3A, 9V/2A, 12V/1.5A) for Android and Apple cellphones, tablets, flashlights, and

power banks.

- **USB-C (PD 20W) Port:** Power Delivery fast-charging (5V/3A, 9V/2A, 12V/1.5A) for compatible devices.
- **DC 5521 Output:** (17.4V/1.73A Max) for small power stations.

30W FAST-CHARGING SOLAR CHARGER



USB-A: 5V=3A, 9V=2A, 12V=1.5A

USB-C: 5V=3A, 9V=2A, 12V=1.5A

DC Output: 17.4V=1.73A Max.



Cell phones



Power Banks



Small Power Station



Bluetooth headphone



Bluetooth Speakers



Tablets

Image: The BigBlue SolarPowa 30W charging multiple devices simultaneously.

3.2 High Efficiency Conversion

Utilizing high-quality monocrystalline panels, the SolarPowa 30 achieves an impressive efficiency of up to 24.7%. The

PVDF surface provides a light transmittance of up to 95%, ensuring optimal energy capture. Note that actual output may vary based on environmental factors such as temperature, placement angle, and cloud cover.

High-Efficiency Monocrystalline Silicon Solar Cells

24.7%[⚡]

Efficiency Rating

95% Light Transmittance



Image: High-efficiency monocrystalline silicon solar cells with 24.7% efficiency rating.

3.3 Ultra-Portable and Practical Design

Designed for ultimate portability, the BigBlue 30W solar panel folds down to a compact size of 7.95 x 12.12 x 1.46 inches and weighs just 1.76 lbs. This makes it easy to pack and carry in a daypack or emergency go-bag. Simply unfold, angle towards the sun, and connect your devices.

REDUCED SIZE, ENHANCED EFFICIENCY

Portable and foldable design, easier to slip into a daypack or an emergency go-bag.



Net Weight:
1.85lbs



SolarPowa 30

7.95
inches



12.12 inches

VS

iPad Pro 13-inch

8.48
inches



11.09 inches

Image: The compact and lightweight design of the SolarPowa 30.

3.4 Enhanced Durability and IP68 Waterproofing

The solar charger features advanced one-piece lamination technology, combining premium PVDF, UV-resistant EVA, and high-efficiency solar cells for exceptional durability and resistance to environmental elements. It boasts an IP68 waterproof rating, protecting it from occasional rain and splashes. *Note: The junction box is not waterproof.*

CERTIFICATED IP68 WATERPROOF

(The junction box is not waterproof)



Easy to clean



Longer Lifespan



Anti Scratch



Lightweight

Image: The IP68 waterproof design of the solar panel.

3.5 Smart and Safe Charging

The integrated smart IC chip provides overcurrent and short-circuit protection. It also features an auto-restart function, which automatically resumes charging once sufficient sunlight is detected after an interruption (e.g., passing clouds).

SMART AND SAFE CHARGING

Note: this solar charger can't store the electricity



Overcurrent
Protection



Short-circuit
Protection



Auto Restart
Function

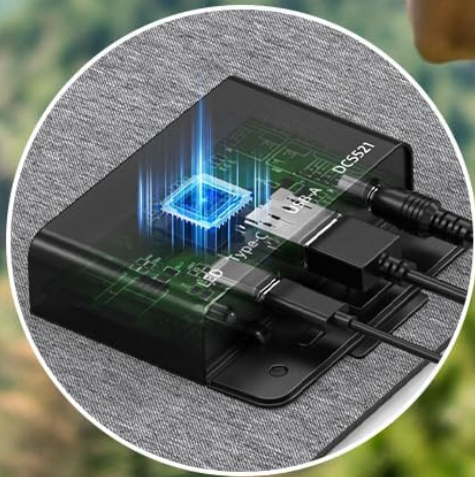


Image: Smart and safe charging features for device protection.

4. SETUP INSTRUCTIONS

1. **Unfold the Panel:** Carefully unfold the BigBlue SolarPowa 30W solar panel completely.
2. **Position for Sunlight:** Place the unfolded solar panel in direct sunlight. For optimal charging, angle the panel directly towards the sun. The integrated kickstand (if applicable to your model) can help achieve the best angle.
3. **Connect Your Device:**

- For USB-C devices, use the provided USB-C to USB-C cable and connect it to the USB-C port on the control box.
 - For USB-A devices, use your device's charging cable and connect it to the USB-A port on the control box.
 - For small power stations, use the provided DC 5525 to DC 5525 cable and connect it to the DC output port on the control box and your power station.
4. **Verify Connection:** The indicator light on the control box will illuminate (typically blue) when the panel is receiving sufficient sunlight and actively charging a device.

Note: The solar panel does not store electricity. It generates power directly from sunlight to charge your devices.

5. OPERATING INSTRUCTIONS

1. **Optimal Sunlight:** Ensure the solar panel is exposed to maximum direct sunlight throughout the charging process. Adjust the angle periodically as the sun moves.
2. **Charging Multiple Devices:** You can charge multiple devices simultaneously using the available USB-A, USB-C, and DC ports. The total output will be distributed among the connected devices, up to a maximum of 30W.
3. **Monitoring Charging:** Observe the indicator light on the control box. A steady blue light indicates active charging. If the light flickers or is off, check the sunlight exposure or connections.
4. **Auto-Restart Function:** If clouds temporarily block the sun, the panel's auto-restart function will automatically resume charging once direct sunlight returns, eliminating the need to manually reconnect your devices.
5. **Environmental Considerations:** While the panel is IP68 waterproof, avoid submerging the control box in water. For best performance, keep the panel clean from dust and debris.

6. MAINTENANCE

- **Cleaning:** Regularly wipe the solar panels with a soft, damp cloth to remove dust, dirt, or debris that may reduce efficiency. Avoid abrasive cleaners or harsh chemicals.
- **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 cables and ports for any signs of wear or damage. Replace any damaged components immediately.

7. TROUBLESHOOTING

- **No Charging / Slow Charging:**
 - Ensure the panel is in direct, unobstructed sunlight.
 - Adjust the panel's angle to face the sun directly.
 - Check all cable connections to ensure they are secure.
 - Verify that the device being charged is compatible with the panel's output specifications.
 - Cloudy weather or low light conditions will significantly reduce charging speed or prevent charging.
- **Indicator Light Not On:**
 - Confirm sufficient sunlight is hitting the panels.
 - Ensure a device is properly connected and drawing power.
 - Check for any damage to the cables or ports.

8. SPECIFICATIONS

| Feature | Detail |
|-------------------------------|--|
| Brand | BigBlue |
| Model Number | bb-30-1 |
| Material | ETFE |
| Product Dimensions (Folded) | 7.95"L x 12.12"W x 1.46"H |
| Product Dimensions (Unfolded) | 14"L x 8.8"W x 1.69"H |
| Item Weight | 1.76 lbs |
| Efficiency | Up to 24.7% |
| Maximum Power | 30 Watts (Total Combined Output) |
| USB-A Output | 5V/3A, 9V/2A, 12V/1.5A |
| USB-C (PD) Output | 5V/3A, 9V/2A, 12V/1.5A (PD 20W) |
| DC 5521 Output | 17.4V/1.73A Max |
| Waterproof Level | IP68 (Panel only, junction box not waterproof) |
| Special Features | ETFE Panels, PD 20W USB-C, Waterproof, Auto-Restart Function |

9. WARRANTY AND SUPPORT

BigBlue offers a **2-Year Quality Guarantee** for the SolarPowa 30W Portable Solar Panel Charger. For any product-related inquiries, technical assistance, or warranty claims, please contact BigBlue customer service. You can also refer to the official BigBlue store for more information.

The product is eligible for a 30-day refund/replacement return policy through Amazon.

For further assistance, please visit the BigBlue Store on Amazon.