

User Manual

IMPORTANT SAFETY INSTRUCTION

Product Disclaimer:

Actual products may vary. BigBlue reserves the right to the final interpretation of the contents in this manual and all documents associated with this product. We also reserve the right to update, change or terminate this manual without prior notice. If you have any questions or comments, please contact us at support@bigblue.com.

Read all the instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.

Failure to operate the product correctly may result in damage to the product or personal property, and cause serious injury.

BigBlue will not be held liable for damages caused by fire, earthquake, accidents, intentional misconduct on the part of the customer abuse or other abnormal conditions.

BigBlue reserves the right to the final interpretation of the contents of this user manual.

⚠ WARNING: This product can expose you to chemicals such as Di (2-ethylhexyl) phthalate (DEHP), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Product Use:

The actual output of the solar panel depends on the light intensity and tilt angle of the panel. The charging power of a solar panel may fluctuate due to weather conditions, seasonal changes, and location. This product should be installed and connected strictly in accordance with instructions found in the user manual.

The main body of this product is waterproof; however, the junction box and connection points must not be immersed in water.

To avoid damaging the solar cells of the panel:

- DO NOT use sharp objects on the surface. Do not knock or bend the solar panel.
- DO NOT apply pressure to the solar panel or allow it to be dropped on any of its corners, sides, or faces.

WARNING: This product should not come into contact with highly corrosive substances or be immersed in corrosive liquids.

DO NOT repair any damage to the product. Refer servicing to qualified personnel.

IMPORTANT SAFETY INSTRUCTION

DO NOT disassemble or attempt to repurpose or modify in any manner.

Connect your device and solar panel with the included, or other certified power cable to start charging.

Overheating will cause damage. Stop using and contact the manufacturer if the product is excessively hot, is emitting odor, is deformed, or showing other abnormalities.

Do not clean with harmful chemicals or detergents.

The surface temperature of the solar panel will increase during operation. Please do not directly touch the front of the battery to avoid burns.

Do not use the panel when the panel front or back sheet is broken or damaged. It can expose personnel to hazardous voltages.

Product Storage:

Recommended to fold and keep the solar panel vertically when being moved or stored. The panel must not be knocked, exposed to heavy pressure, or bent during the transportation and installation.

The product should be well folded or covered by something to protect it from sunlight.

Store in a cool, dry place. Recommend storage temperature: -4°F to 140°F / -20°C to 60°C.

Do not expose to moisture or submerge in liquid.

Store the solar panel in a dry environment when not in use.

Always ensure the junction box (if any) is not exposed to sunlight.

Product Disposal:

Unwanted solar panels must be disposed of in accordance with local legal requirements.

WARNING: Attention should be drawn to the environmental aspects of battery (if included) disposal. Dispose of the product in specific recycling boxes only after a complete discharge. Strictly follow the local regulations on battery disposal and recycling.

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Product Certifications:



Product Warranty:

Our company provides customers with a warranty of 24 months from the date of purchase.

No dealer nor distributor may vary the terms of this warranty which is personal to the original purchaser and is not transferable.

Please retain the sales receipt as proof of purchase.

Warranty claims must wherever possible be made through the dealer from whom the product was purchased.

This warranty excludes:

- Damage caused through neglect, accident, misuse, wear, and tear, or incorrect installation, adjustment, or repair by unauthorized personnel. Any unauthorized servicing will result in the loss of warranty.
- The above conditions do not affect your statutory rights as a consumer.

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Introduction of BigBlue SolarPowa 28

Thank you for purchasing the SolarPowa 28, a versatile portable solar charger featuring three USB ports and smart charging technology. Built with industrial-strength PET polymer fabric, the SolarPowa 28 is both durable and lightweight. Whether you're hiking, camping, or traveling, this portable solar charger offers a reliable and convenient solar charging solution.

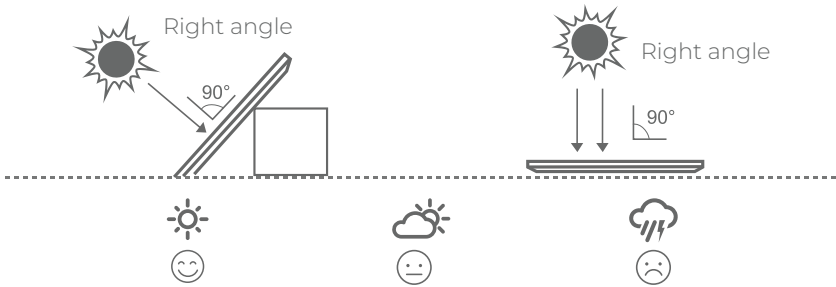
Unpacking The Equipment

The carton should contain:

- The BigBlue SolarPowa SolarPowa 28 *1
- USB Charging Cable *1
- Carabiner *2
- User Manual *1

SYSTEM OPERATIONS

1. Unfold the SolarPowa 28.
2. Position the SolarPowa 28 under direct sunlight. Avoid any shaded areas to optimize energy production.



3. Connect your devices with certified power cable to start charging. For optimal charging performance, it's recommended to use the provided charging cable.
4. Solar charger, in most cases, does not deliver the full rated power. Here are a few recommendations to optimize the efficiency of the SolarPowa 28 solar charger:

- **Perfect the Sunlight Orientation**

The amount of sunlight shining on the panel fluctuates the output power. The solar panel's performance can be maximized by orienting the panel so that it faces directly toward the sun. The ideal angle of inclination for a solar panel is 90 degrees from horizontal.

- **Eliminate the Shade**

The surface of the solar panel should not be shaded during use. Shading caused by weather, coverings, or other obstructions can greatly reduce power output.

- **Offset Surface Temperature Increase**

The amount of power generated by a solar panel depends on its surface temperature. Lower temperature leads to a higher generation. This effect is greater compared to winter time than summer. During the summer day, particularly, the surface of the solar panel may reach 131°F / 55°C, which reduces the rated power over 10% efficiency.

- **Keep it Clean**

Dust or dirt can gradually accumulate on your solar panel, reducing the amount of sunlight reaching the solar cells. Cleaning your panels a few times a year allows them to convert more solar energy.

SYSTEM SPECIFICATIONS

SPECIFICATIONS

General Information

Model	B401D
Dimensions (Folded)	282x155x30mm / 11.02x6.1x1.18inch
Dimensions (Unfolded)	835x280x5mm / 32.87x11.02x0.2inch
USB-Output	1*USB A: 5V $\overline{=}$ 3A 2*USB C: 5V $\overline{=}$ 3A(max per port)
Total Output	5V $\overline{=}$ 4.8A

LED Indicator Information

LED State	Charging Status
Solid blue	Normal
Blinking blue	Abnormal (Check FAQ for troubleshooting tips)

FREQUENTLY ASKED QUESTIONS

1. Why the connected device cannot be charged?

Please check if your device is well connected to the solar charger or if the connecting cable works normally. Re-plug the cable or try with another cable.

2. Why the connected device is charged slowly?

Ensure that the input current and voltage of the connected device are within the accepted range. The amount of sunlight, weather, or shady may cause fluctuations in the current output that prevent your devices from charging. In this event, try placing the solar charger in more direct sunlight or wait for the weather to clear. In order to get the maximum solar energy, please adjust the solar charger toward the sun.

3. What is the difference between the nominal / rated output from the actual output of the solar charger?

The maximum nominal / rated output of the SolarPowa 28 solar charger is rated based on the Standard Test Conditions (STC) – the industry-wide standard for the conditions under which a solar charger is tested. The test conditions are defined as irradiation 1000 W/m², temperature 25°C, and air mass 1.5.

The nominal / rated power refers to the power of the solar charger, which is not equal to the actual output of the solar charger. In fact, the actual power is less than the nominal / rated power, since there will be some power loss in the form of heat during the solar energy conversion, and a few other environmental factors such as the weather conditions, seasonal changes, and location.

NOTE: Refer to page 07 to optimize the efficiency of the solar charger.

4. What should I do if the LED light is blinking?

If you observe a blinking LED light, here are a few steps you can take:

- Ensure the solar charger is in direct sunlight. Adjust the angle of the panel to face the sun directly for optimal performance.
- Check the connection to your device. Make sure the charging cable is securely plugged into both the solar charger and your device. Try unplugging and re-plugging the cable or using a different certified power cable.
- Verify your device's requirements. Ensure that the input current and voltage requirements of your connected device are within the accepted range of the solar charger.

WARRANTY CARD

Name		Phone Number	
Email		Name Of Shop	
Model		Order Number	
UPC No.		Date Of Purchase	
Address			



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