

PHOTON

SOLAR PANEL

USER MANUAL

GL- SP120 | GL-SP200 | GL-SP400

SOLAR PANEL

120/200/400 WATT FOLDABLE SOLAR PANEL

Congratulations on purchasing your ticket to energy freedom. Tap into the sun’s radiance and power your devices anywhere. This product is designed to the highest technical specifications and standards. It will supply years of maintenance-free energy. Please read these instructions thoroughly prior to use, then store in a safe place for future reference.

1 PACKAGE CONTENTS

- 1* 120/200/400 Watt. foldable solar panel
- 1* User’s Manual

2 TECHNICAL SPECIFICATIONS

120W SOLAR PANEL

Solar panel power	120watt mono-crystalline
DC Output	19V±5% 6.31A max
Unfold size	1905*470*25mm±5mm
Folding size	470*435*50mm±5mm
Weight	4.7kg

200W SOLAR PANEL

Solar panel power	200watt mono-crystalline
DC Output	20V±5% 10A max
Unfold size	2155*580*25mm±5mm
Folding size	580*485*50mm±5mm
Weight	7.0 kg

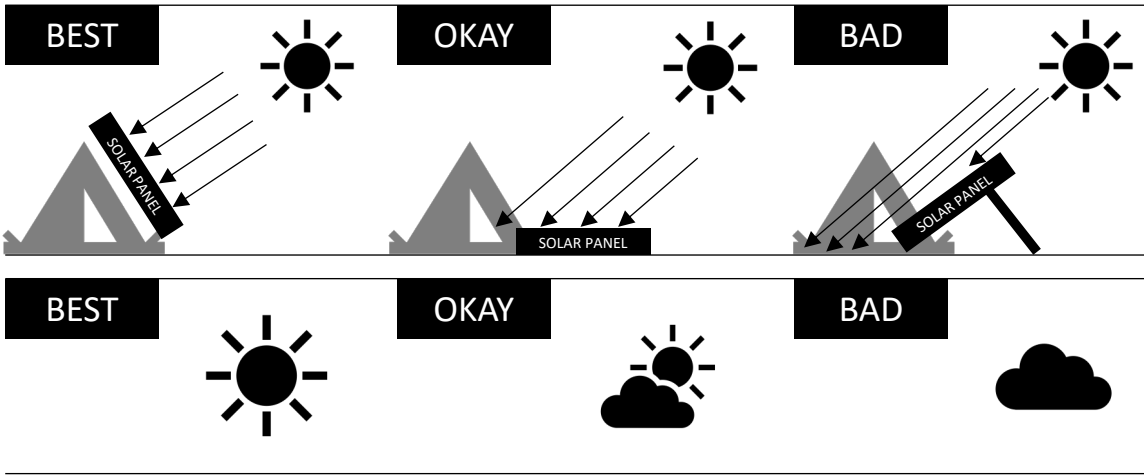
400W SOLAR PANEL

Solar panel power	400watt mono-crystalline
DC Output	40V±5% 10A max
Unfold size	3090*767*25mm±5mm
Folding size	767*705*50mm±5mm
Weight	8.6 kg

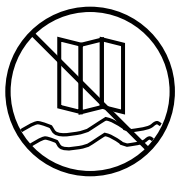
3 USING TIPS

- Please make sure that the connecting cables match Solar Panel and charging equipment.
- In theory, Solar Panel can charge all kinds of batteries. It depends on the charging circuit of the batteries. Please make sure that the charging voltage of the Solar Panel matches the input voltage of your batteries.
- Note that the red part of the Anderson plug is positive, and the black part is negative. Please connect positive to positive and negative to negative to ensure using correctly.
- The output power of Solar Panel is related to the intensity and angle of sunlight. Solar Panel form a **90-degree angle** with sunlight has the best charging efficiency. To ensure your user experience, please use Solar Panel in a place with sufficient sunlight.

USING EXAMPLE



4 CAUTION



DON'T IMMERSE IN WATER



DON'T BREAK IN ANYWAY



AVOID EXTREME TEMPERATURE



DON'T DISASSEMBLE

5 WARNINGS

The warnings in this manual cannot cover all possible conditions or situations that could occur. Using this product with common sense and caution. Always be aware of the environment and ensure that the product is used in a safe and responsible manner.

- **DO NOT** operate or assemble the Solar Panel until reading this manual and understanding how it works.
- When using the solar panel, place it upward in direct sunlight to ensure the best charging effect.
- **DO NOT** break, dismantle, or drop the Solar Panel.
- Use the Solar Panel to charge proper equipment.
DO NOT attempt to force it to do the work of larger industrial equipment.
- **DO NOT** place heavy objects or step on it.
- **DO NOT** use nails or sharp objects to scratch the Solar Panel surface.
- **DO NOT** immerse the Solar Panel in water. Try to avoid exposure in the rain and moist environments. Scrub the Solar Panel with a damp cloth when clean it.
- Keep the Solar Panel away from excessive-high temperatures, such as fire or heater.
DO NOT put the Solar Panel into a fire or apply direct heat to it.
- **DO NOT** contact the Solar Panel with strong corrosive objects.
- **DO NOT** modify this product in any way. Unauthorized modification may impair function and safety. Also, it could affect the life span of the product.

6 FAQ & SOLUTIONS

Q1: Is the Solar Panel waterproof?

A1: Both sides of the Solar Panel are protected well from splashing water. However, the connectors which on the bag are not waterproof. Do not immerse the Solar Panel in water, and we don't recommend using the Solar Panel in the rain and moist environments.

Q2: Is this chainable with other Solar Panels?

A2: Yes. You can chain other Solar Panels that have the same nominal output voltage power in parallel. You should note that the superimposed current cannot exceed the current that the connecting cables and plugs can bear. Our warranty does not cover any property loss caused by mis-operation when chaining Solar Panels.

Q3: If it is partially cloudy or shady will the solar charger still work?

A3: Yes, although the charging efficiency will be low causing prolonged charging time.

Q4: Will this panel charge a power station?

A4: Yes. The Solar Panel can charge PHOTON series power station and also the products of other brands with appropriate power. Note that charging power station which has excessive power will lead to longer charging time.

Q5: If my device needs an input current of 1A, will the 2A output of the solar charger damage it?

A5: No. The solar panel has intelligent charging, detecting the needs of your device and delivering exactly what it needs. If your phone accepts 1A, the charger will deliver 1A.

Q6: What if the foldable USB port solar charger is not charging my devices?

A6:

- A. Check the manual of your device to ensure the input voltage is 5V.
- B. Cloudy weather and indirect sunlight may cause fluctuations in the current. This in turn may hinder or prevent charging. Place the solar charger in direct sunlight or wait for the weather to clear.
- C. Wipe the panels clean with a damp cloth between usage to prevent scratching.
- D. Avoid exposure to fire, water and chemical liquid.

Q7: If it is partially cloudy or shady will the solar charger still work?

A7: Yes, although the charging efficiency will be low causing prolonged charging time.

Q8: Will this panel charge a power bank?

A8: Yes. Be sure to put the power bank in the pocket of the charger to avoid direct sunlight or excessive heat.

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