



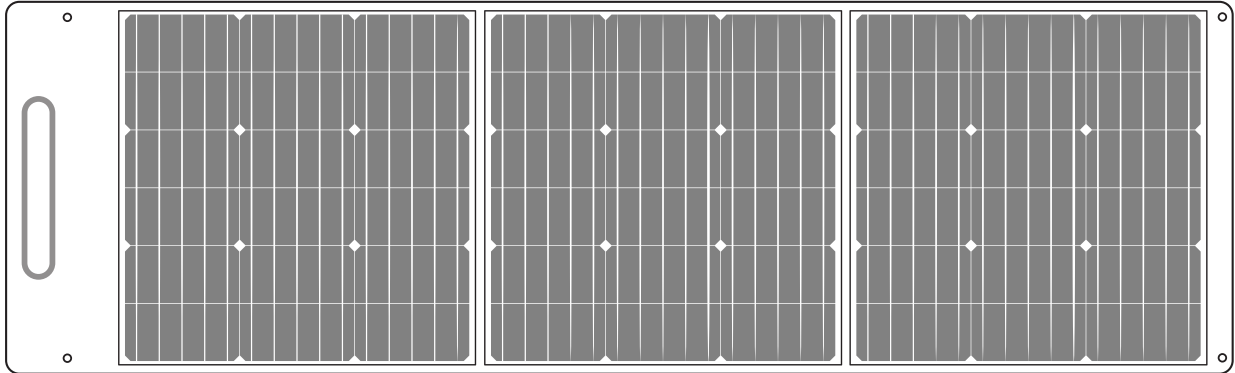
# **Powerology 60W Mono-Crystalline Solar Panel**

SKU: PWSLPN

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Before installing and using the product, please carefully read this User Manual to guarantee correct usage and keep it secure for future reference.



## Product Overview

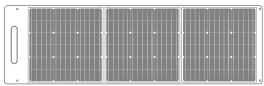
The mono-crystalline solar panel is a foldable solar charger. This portable energy solution is engineered specifically to convert solar energy directly into electrical power for your mobile devices. Please note, the solar panel itself does not store electricity, so it must be used in sunlight to harness green energy effectively.

## Product Features

The mono-crystalline solar panel is constructed with high-quality materials in five layers of premium quality materials, ensuring durability and efficiency. It includes a layer of ETFE film, a mono-crystalline silicon panel, and a double-layer EVA-reinforced protection layer, all supported by a robust PCB circuit board. This layered design maximizes the absorption of sunlight and leads to the highest power conversion efficiency, making it a superior choice for solar energy users.



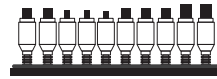
## Package Contents



1\*60W Solar Panel



1\* DC Output Cable



10\*Adapters



2\*Carabiner

## Specifications

<b>Model</b>	<b>PWSLPN</b>
<b>Solar Panel Power</b>	<b>60W Mono-Crystalline</b>
<b>USB-A Output</b>	<b>5V/3.4A - 9V/2.5A - 12V/2A Max. (QC3.0 24W)</b>
<b>USB-C Output</b>	<b>5V/3A - 9V/3A - 12V/3A - 15V/3A Max. (PD 45W)</b>
<b>DC Output</b>	<b>Max. 18V/3.3A</b>
<b>Unfold Size</b>	<b>131×37.5×4cm</b>
<b>Folded Size</b>	<b>37×37.5×3.5cm</b>
<b>Weight</b>	<b>About 3kg</b>

**1 .** In case my device requires an input current of 1A, will the 2A output of the solar charger cause any damage?

No. The solar panel is equipped with a smart charging chip, ensuring that your devices receive the most suitable charging current. If your device is designed to draw only 1A, the solar panel will automatically adjust to provide the correct current.

**2 .** What should I do if the solar panel isn't charging my devices?

A. Verify that the input voltage of your devices is compatible with the solar panel's output voltage.

B. Inspect the USB and DC output ports on the panel as well as the corresponding ports on your devices to ensure that they are in working order.

C. Fluctuations in output current can occur due to intermittent sunlight or cloudy conditions, potentially interrupting the charging process. Aim the panel directly at the sun and wait for clearer weather conditions.

D. If the above steps do not resolve the issue or you have further inquiries, please contact us.

**3 .** Why doesn't the solar panel reach its 60W rated power during actual use?

Several factors can influence the actual power output, including the intensity of sunlight, the panel's surface

temperature, the amount of sun exposure, and potential obstructions like tree branches, clouds, or accumulations of dust and other sticky substances.

**4.** Is the solar panel waterproof and how can I maintain a clean panel surface?

Yes, the solar panel is rated IP65 for water resistance; however, the charging control unit is not waterproof. To extend the lifespan of the panel, it is advisable to keep it out of wet conditions. For cleaning, initially use a soft, damp cloth to gently remove any dirt, dust, or sticky residues that could hinder performance. Afterward, use a soft, dry cloth to wipe the surface clean and ensure it is dry.

## Caution










**Note:** The panel may become hot during operation; avoid contact with bare skin.

- 1.** The solar panel is not designed to store power and should not be used as a substitute for a battery.
- 2.** Handle the product with care. Do not disassemble, and avoid causing damage through scratches, impacts, or rough treatment.
- 3.** Store the product in a dry, well-ventilated location when not in active use.
- 4.** In outdoor settings, ensure that the charging control unit is protected from exposure to dust, rain, or water.

# Charging Solar Panel

1. Unfold the solar panel and position it to receive direct sunlight.
2. Connect the solar panel to your devices.
3. To prevent your devices from overheating, place them under the solar panel, in the integrated pocket if available, or in a shaded area to avoid direct sun exposure.

# Positioning the Solar Panel

 Direct angle 😊	 General angle 😞	 Reverse angle 😞
 Sunny 😊	 Clouds 😞	 Rainy 😞
 Glass 😞	 Pollutants 😞	 Shading 😞

# Warranty

Products that you buy directly from our **Powerology** website or shop come with a 24-month warranty. The 24-month warranty applies to products purchased directly from our **Powerology** website or store. If **Powerology** products are

bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website

**<https://powerology.me/warranty>** and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check:

**<https://www.powerology.me/warranty>**

## **Contact Us**

If you have any questions about this Privacy Policy, please contact us at: **<https://hey@powerology.me/>**

Website: **<https://www.powerology.me/>**

Instagram: **Powerology.me**

Facebook: **Powerology**