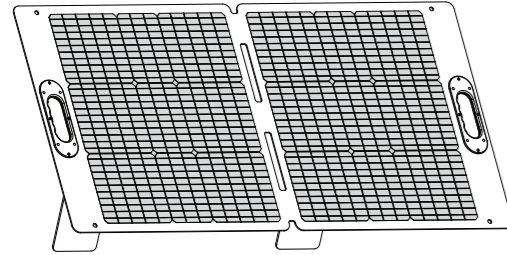


ENGINUITY

FLEXIBLE POWER SOLUTIONS



100W SOLAR PANEL USER MANUAL

⚠️ WARNING:

This manual contains important information to ensure the safe operation, handling and storage of this product. To reduce the risk of injury read and understand this manual prior to use. Save the manual for future reference.

IMPORTANT SAFETY RULES

⚠️ WARNING:

Risk of Burns. The solar panel is designed to be used in direct sunlight. When used correctly, hot surfaces may be present on all parts of the panel. Use caution and be alert when touching the panel. KEEP CHILDREN AWAY FROM THE SOLAR PANEL!

⚠️ WARNING:

Before connecting this solar panel to a device, power station, or another solar panel, make sure all of the connections fit and are compatible. Do not use a damaged solar panel and do not connect damaged items to the solar panel. Failure to follow this warning can result in property damage, electric shock, serious personal injury, and/or fire.

SAVE THESE INSTRUCTIONS

- Follow the manufacturer's instructions when using this product. Misuse can reduce the protection provided by this equipment.
- Optimal solar panel charging performance requires adequate light exposure. Screened windows, tinted windows, and other materials that filter or partially obstruct light can reduce the panel's performance.
- Do not operate, store or handle the solar panel in wet conditions. Do not submerge the solar panel.
- Do not use the solar panel if it has been dropped, cracked, or received a sharp blow.
- Be careful when connecting/disconnecting cables from the solar panel's junction box. Do not force cables into the junction box.
- Do not insert foreign objects into the solar panel.
- Do not disassemble the solar panel. All repairs should be performed by the manufacturer or authorized service person.
- Store the product indoors in a dry secure location away from children.

SPECIFICATIONS

Peak Power	100W
Cell Efficiency	22.91%
Power Voltage	22.23V
Power Current	4.5A
Open Circuit Voltage	26.23
Short Circuit Current	4.73A
USB Output	5V/3A;9V/2.66A;12V/2A
Type-C Fast Charge	5V/3A;9V/3A;12V/3A;15V/3A; 20V/2.25A(PD45W)
Mc4 Output	22.23V/100W
Dimensions	Folded 24.2 x 23.4 x 0.8 in. (615 x 596 x 20 mm) Unfolded 48.4 x 23.5 x 0.12 in. (1230 x 596 x 3 mm)

Operating Temperature Range 14°F to 158°F (-10 to 70°C)

OTHERS

Cell Type Mono silicon solar cells

- Smart IC Technology (Target Intelligent Recognition Chip) identifies and adapts to the specific charge rate of certain devices to provide faster safer charging.
- Built in safeguards to prevent reverse charging and protect connected devices.

OPERATING THE SOLAR PANEL

PACKING LIST

The following products and accessories are included with your purchase:

100W Solar Panel

Mc4 Adapter Cable

SETTING UP THE SOLAR PANEL

Shown in figure 1.

- Remove the hook-and-loop strap and carefully unfold the solar panel.
- Position the solar panel to receive direct sunlight by:
 - Suspending the solar panel vertically using the grommet holes in each corner or
 - Unfolding the legs and placing the solar panel on a flat horizontal surface

⚠️ WARNING:

Falling Hazard. Ensure that the solar panel is secure when suspended vertically. A falling solar panel could cause property damage or serious personal injury. Do not use the solar panel if it has been dropped, cracked, or received a sharp blow.

- For optimal results, place the solar panel where it can receive direct sunlight. Obstructed or diffused light can reduce the solar panel's charging performance.

NOTE: Performance can also be impacted by air quality, weather conditions, and geographic location.

OPERATING THE SOLAR PANEL

USING THE SOLAR PANEL

Shown in figures 2 - 5.

- Set up and position the panel as described earlier.
NOTE: To maximize the amount of direct sunlight the panel receives, the front of the panel should be at a 90° angle to the sun. Reposition the panel throughout the day as needed.
- Use a clean cloth to remove, dirt, oil, grease, etc. from the solar panel.
- Open the zippered pouch on the back of the panel to access the solar controller and Mc4 adapter cable. **Do not attempt to remove the solar controller.**
- The LED on the solar controller will light up when the solar panel starts to produce electricity.

⚠️ WARNING:

Risk of Electric Shock. The solar panel converts sunlight into electricity and basic safety precautions should be followed to prevent electric shock or personal injury. Do not handle the solar controller or cables with wet hands, do not expose the solar controller or connected devices to wet conditions, and do not allow water to enter the solar panel or solar controller.

- For USB devices, plug the device or devices you want to power or charge into the solar controller's USB ports.

NOTE: The fast charge USB port can charge and power most compatible electronic devices, including tablets and smartphones. **Do not leave USB devices in direct sunlight.** Place USB devices in the shade or inside of the zippered pouch to prevent them from overheating.

- For Enginuity power stations, connect the Mc4 adapter cable to the solar controller and then connect a barrel plug to a power station. **Do not connect multiple power stations.**

- Use the 5521 barrel plug to connect the E1000 power station only.
- Use the 5525 barrel plug to connect the E600 power station only.
- Use the 7909 barrel plug to connect the E300 power station only.

- To use two solar panels in parallel or series, connect the Mc4 adapter cable to the solar controllers in each solar panel. After the solar panels are connected, charge or power devices as described previously.

When charging is complete, disconnect all devices and cables and close the zippered pouch. Allow the panel to cool, then use a clean cloth to remove, dirt, oil, grease, etc. from the solar panel. Fold the solar panel and store it out of the reach of children.

LIMITED WARRANTY STATEMENT

Enginuity Power Systems warrants to the original retail purchaser that this product is free from defects in workmanship and materials for two years from the date of purchase. Keep a copy of your purchase receipt as proof of purchase

This warranty is non-transferable and does not cover damages from normal wear and tear, modifications, abuse, misuse, accidents, neglect, improper storage and maintenance, non-authorized servicing, or acts of God. The warranty is limited to the solar panel and the original purchaser. Enginuity Power Systems is not liable for any third party claims, property damage, data loss, financial hardship, etc. arising from the use of this product.

The product, and any defective parts, must be returned to Enginuity Power Systems or an authorized service repairer within the warranty period. At the discretion of Enginuity Power Systems, the owner may be responsible for some or all of the shipping and delivery costs. In respect to claims, Enginuity Power Systems is only responsible for repairing or replacing defective items.

This warranty provides specific legal rights; additional rights may differ by state. For more information, contact customer service.

CUSTOMER SERVICE: +1 571.800.3299

