MHPOWOS

## Solar Panel 18V45W

OpenCircuit Voltage(Voc): 21.2 V
Short Circuit Current(Isc): 2.75 A
Maximum Power Voltage(Vmp): 18 V
Maximum Power Current(Imp): 2.5 A Max
Solar energy conversion rate: 24%

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## How to use

- Place the solar panel under strong sunlight.
- Angle solar panels toward sunlight vertical direction.
- Do not cover the solar panels.

PORTABLE SOLAR CHARGER
USER MANUAL

Technical Parameters

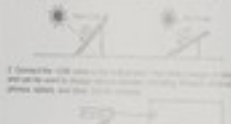
| | |
|---|---|
| Model | MHP-SP45W |
| Maximum Power | 45W |
| Voltage at Maximum Power | 18V |
| Current at Maximum Power | 2.5A |
| Open Circuit Voltage | 21.2V |
| Short Circuit Current | 2.75A |
| USB-A Output | 5V/2.1A (Max) |
| DC Output | 18V/2.5A (Max) |
| Input Type | USB-C |
| Input Voltage | 5V/3A |
| Operating Temp | 0°C ~ 45°C (32°F ~ 113°F) |
| Storage Temp | -20°C ~ 60°C (-4°F ~ 140°F) |
| Solar Cell Type | Monocrystalline |
| Net Weight | 1.5kg |

Package Contents

1 x Solar Panel 1 x DC Cable 1 x User Manual
4 x Metal Clips 1 x Carabiner Hook 1 x Storage Bag

User Instructions

1. Unfold the solar panel. Position it in a location where it can receive direct sunlight for the longest duration. Ensure the surface is clean and free from obstructions.



2. Connect the USB cable to the solar panel's USB-C output port. Then connect the other end of the USB cable to your device's charging port. Ensure a secure connection.

Reminder: Use original devices' cables, ensuring the solar panel receives sufficient sunlight for optimal charging.

3. When the solar panel is exposed to sunlight, your device will begin charging. Monitor the device's battery level to ensure it's charging properly. Once the device is fully charged, disconnect the USB cable from the solar panel and your device.

FAQ and Troubleshooting

1. Why is my device not charging even though the solar panel is exposed to sunlight?
Please ensure the solar panel is receiving direct sunlight for an adequate duration. Partial shade or cloudy conditions can reduce charging efficiency. Also, check that the USB cable is securely connected to both the solar panel and your device.

2. How long does it take to fully charge my device using the solar panel?
The charging time depends on factors such as the device's battery capacity, the intensity of sunlight, and the angle of the solar panel. Typically, it may take several hours of direct sunlight exposure to fully charge a device.

Cautions

1. Avoid exposing, throwing, dropping, or bending the solar panel.
2. Under no circumstances should you disassemble or modify the solar panel.
3. Solar panels are constructed with monocrystalline silicon wafers. During use, please refrain from dropping them on the ground or striking them with tools. Avoid stepping on or riding on the solar panel to prevent potential damage to the monocrystalline silicon wafer, which may extend its functional lifespan. Improper use and external damage may result in warranty violations.

Disclaimer

1. Read the user manual carefully before using the product. Keep the manual for future reference.
2. Incorrect operation may cause injury or property damage. Use of the product implies understanding and acceptance of all terms. The user is responsible for the consequences. We are not liable for issues due to failure to follow the "User Manual." Interpretation of documents is subject to change without notice.

Contact us

We have an 18-month warranty on our products. If you have any questions or concerns, please email us at support@mhpowos.com. We will respond as soon as possible.