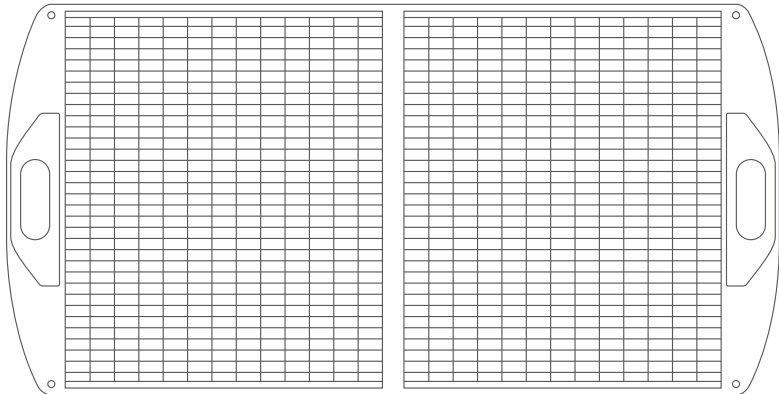


MARXON

User Manual

Portable Solar Panel



DISCLAIMER

To use the product correctly and properly, make sure you have read the user manual, all safety tips, instructions, warning messages, terms of use, and disclaimers carefully before using. The inappropriate operation could result in serious injury to the user or others, or damage to property or products. All terms and content of this document are considered understood, recognized, and accepted once you begin using this product. Users take full responsibility for all usage and operations. In the event the user fails to use the product in accordance with the User Manual, the company("Marxon") is not liable for any damages caused. In compliance with laws and regulations, Marxon holds the final explanation right of this document and all related documents of the product. For the latest product information, please visit Marxon's official website at www.marxon.net. Products may be updated, revised, or discontinued without prior notice.

CONTENTS

1. Safety Guide	1
2. Specifications	2
3. Connection Methods	3
3.1. Connecting Single Solar Panel to the Power Station	3
3.2. Parallel Connection	4
3.3. Series Connection	5
4. FAQs	6
5. What's in the Box	6

1. Safety Guide

- 1.1 Don't contact with strong corrosive substances.
- 1.2 Avoid hard or sharp objects hitting and scratching the surface during use or storage.
- 1.3 Don't step on it.
- 1.4 Don't bend during transportation, assembly, or operation.
- 1.5 Don't immerse the product in water.
- 1.6 When using the product, please strictly follow the operating environment temperature specified in this user manual. Do not use or store the product near a heat source, such as a fire source or a heating furnace.
- 1.7 Do not clean the solar panel with water, with wet cloth gently scrub it.
- 1.8 Do not attempt to disassemble the Solar Panel in any way.
- 1.9 Do not charge the automotive batteries directly.

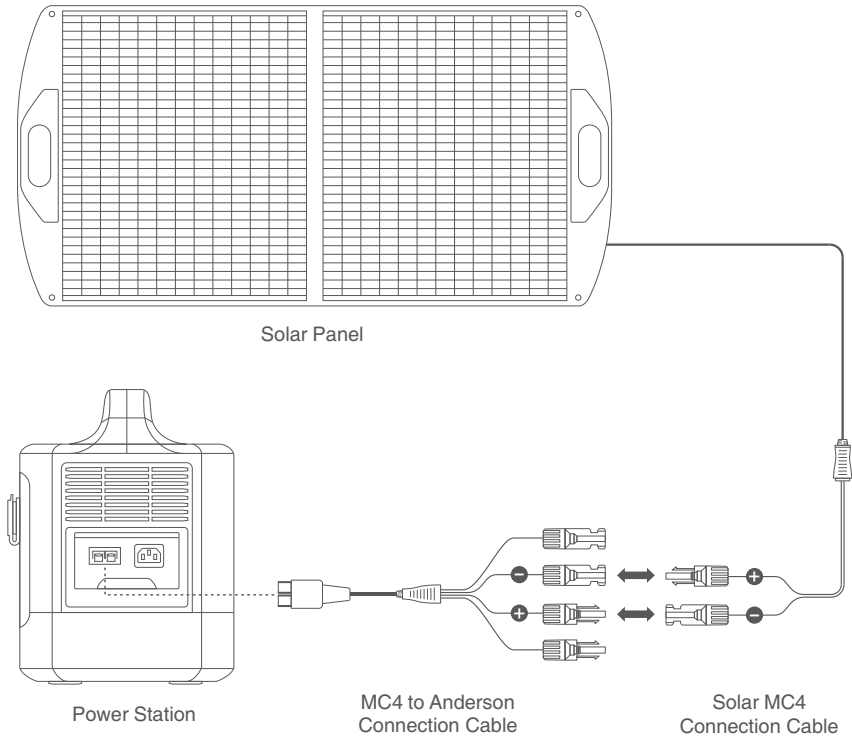
2. Specifications

100W Technical Specifications

Product Model NO.	PETC-S100
Peak Power	100W
Tolerance	±10%
Cell Type	MONO
Conversion Efficiency	21.5-23.5%
Power Voltage (Vmp)	18V
Power Current (Imp)	5.5A
Open Circuit Voltage (Voc)	24.5V
Short Circuit Voltage (Isc)	6.1A
Output Port	MC4
Operating Temperature Range	-10°C~65°C
Storage Ambient Temperature	-20°C~60°C
Maximum Power Temperature Coefficient	-0.45%/°C
Open Circuit Voltage Temperature Coefficient	-0.35%/°C
Temperature Coefficient of Short Circuit Current	+0.05%/°C
Total Transmittance	97%
Moisture Permeability	40°C/90%RH g/M ² .Day
Water Absorption Rate	2.5%(24H)
Test Standard Conditions	Am1.5 25°C 1000W/m ²
Folded Size	582*577*50MM
Unfolded Size	1154*582*5.5MM
Net Weight	4.45KG
Remarks	Testing Environment (STC): Spectral Energy: 1KW/m ² Air Pressure: AM=1.5 The light conditions are 38000W Lux (Lighting Unit) Electronic Load Test: 38000W Lux

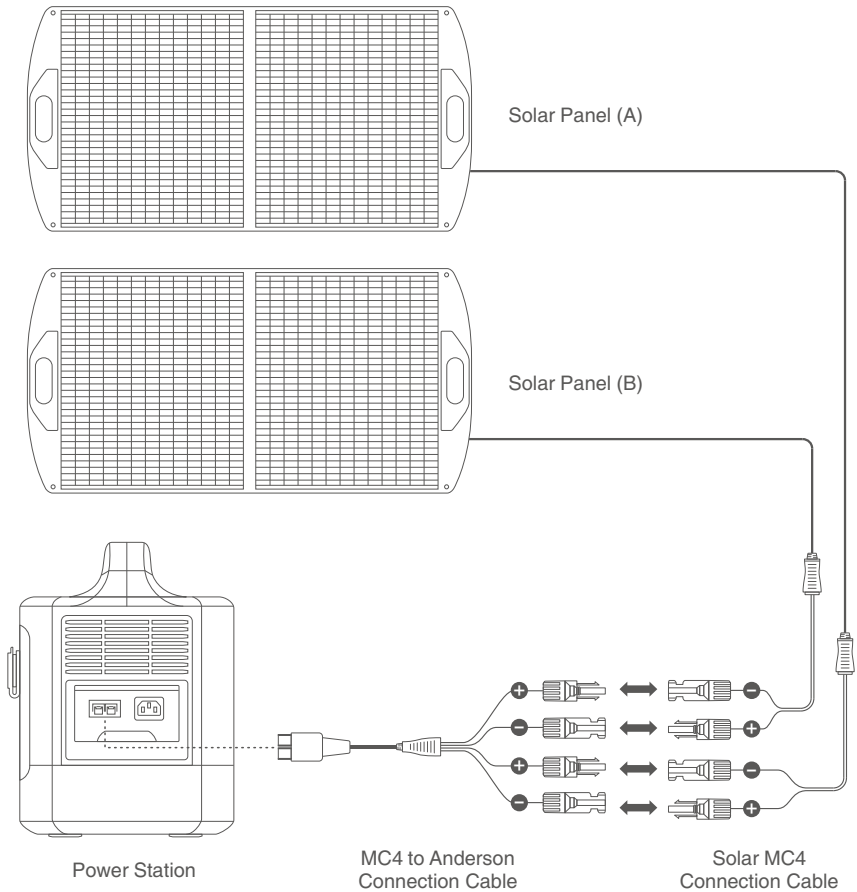
3. Connection Methods

3.1 Connecting Single Solar Panel to the Power Station



- Step 1:** Connect the positive pole of the Solar MC4 Connection Cable to the negative pole of the MC4 to Anderson Connection Cable.
- Step 2:** Connect the negative pole of the Solar MC4 Connection Cable to the positive pole of the MC4 to Anderson Connection Cable.
- Step 3:** Connect the MC4 to Anderson Connection Cable to the Anderson Input Port on the Marxon portable power station.

3.2 Parallel Connection



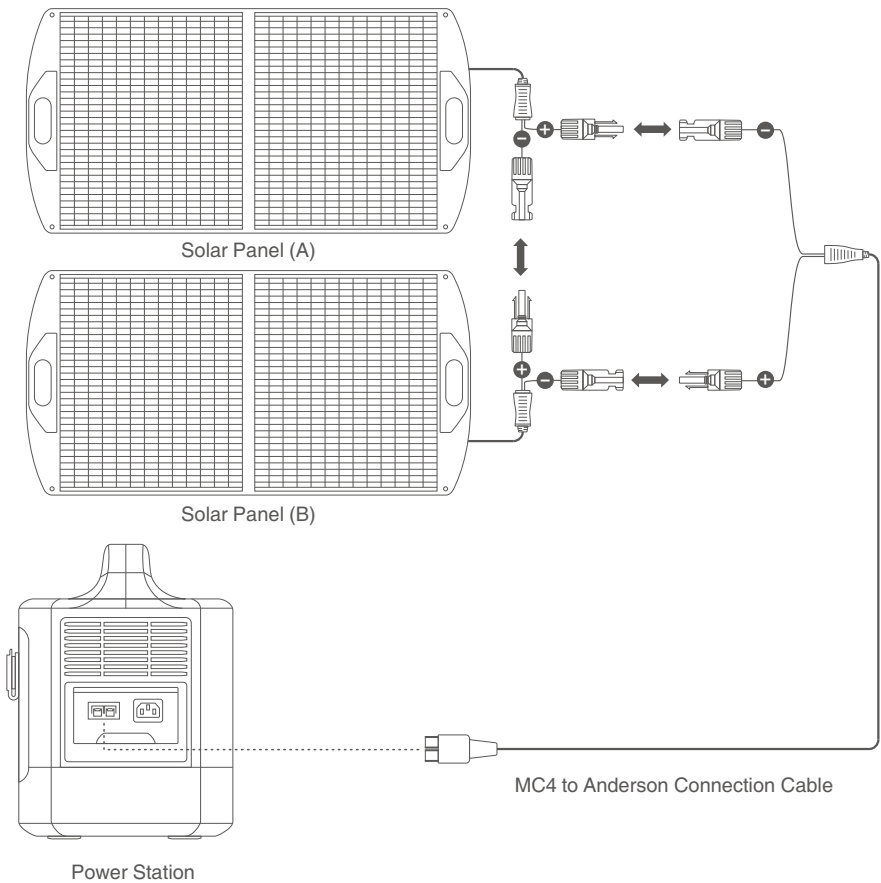
Step 1: Connect the positive poles of A & B solar panels to the negative poles of the MC4 to Anderson Connection Cable.

Step 2: Connect the negative poles of A & B solar panels to the positive poles of the MC4 to Anderson Connection Cable.

Step 3: Connect the MC4 to Anderson Connection Cable to the Anderson Input Port on the Marxon portable power station.

Note: For the parallel use of two or more solar panels, please confirm the output power, voltage, and current requirements of the solar panel charging that your device supports.

3.3 Series Connection



- Step 1:** Connect the negative pole of A solar panel to the positive pole of B solar panel.
- Step 2:** Connect the positive pole of A solar panel to the negative pole of the MC4 to Anderson Connection Cable.
- Step 3:** Connect the negative pole of B solar panel to the positive pole of the MC4 to Anderson Connection Cable.
- Step 4:** Connect the MC4 to Anderson Connection Cable to the Anderson Input Port on the Marxon portable power station.

Note: For the series use of two or more solar panels, please confirm the output power, voltage, and current requirements of the solar panel charging that your device supports.

4. FAQs

1. How to clean the solar surface?

Use a soft brush to remove dust and dirt from the surface. To remove any remaining dust or dirt, wipe the solar panels' surface with a damp cloth. Guano or other adhesives should be removed as soon as possible to avoid a reduction in performance.

2. Does the charging speed of Marxon solar panels vary?

Depending on the operating conditions and the environment, solar panels charge at different rates:

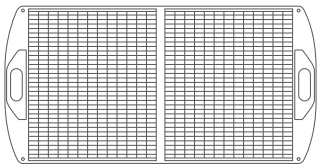
1. Weather conditions such as cold, cloudy, and rainy may affect solar panel output.
2. Solar panels' output can be affected by their location when they are not facing the sun directly.
3. Solar panels may have a lower output if they are placed under shade, behind other objects, or behind a window.

Please note that applying external pressure to solar panels may damage them and reduce their output.

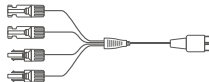
3. Can Marxon solar panels store power themselves?

Solar panels convert solar energy into electricity instead of storing it and sending it to Marxon power stations.

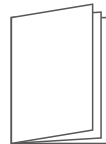
5. What's in the Box



Solar Panel x 1



MC4 to Anderson
Connection Cable x 1



User Manual x 1



Scan the QR Code to Learn More About US.

www.marxon.net