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› FOSSiBOT SP200 200W Portable Solar Panel User Manual

## FOSSiBOT SP200

# FOSSiBOT SP200 200W Portable Solar Panel User Manual

Model: SP200 | Brand: FOSSiBOT

## 1. INTRODUCTION

Thank you for choosing the FOSSiBOT SP200 200W Portable Solar Panel. This manual provides essential information for the safe and efficient use of your solar panel. Designed for high efficiency and portability, the SP200 is an ideal companion for outdoor adventures, emergency power, and off-grid living, compatible with FOSSiBOT power stations and other solar generators.

Please read this manual thoroughly before operation and retain it for future reference.

## 2. SAFETY INSTRUCTIONS

- Do not attempt to disassemble, repair, or modify the solar panel. This may cause damage, electric shock, or fire.
- Avoid exposing the solar panel to fire, heat sources, or corrosive substances.
- Do not step on or place heavy objects on the solar panel.
- Ensure all connections are secure and correct before use. Incorrect connections can damage the panel or connected devices.
- Keep the solar panel away from water during operation, unless specifically designed for wet conditions (IP67 rated for temporary immersion, but avoid prolonged submersion).
- Handle the panel carefully to prevent physical damage.
- Always disconnect the solar panel from the power station before moving or storing it.

## 3. PACKAGE CONTENTS

Please check the package to ensure all items are present and undamaged:

- 1 x FOSSiBOT SP200 200W Portable Solar Panel
- 1 x MC4 to Multi-Connector Cable (includes MC4 to DC5521, MC4 to Anderson, MC4 to XT60 adapters)
- 1 x User Manual (this document)
- 1 x Storage Bag

# 200W Pannello solare Tempo di riferimento per la ricarica dell'alimentatore portatile F2400.

23,4% Celle ad alto tasso di conversione La batteria può essere caricata in modo efficiente a



Image: Contents of the FOSSIBOT SP200 package, showing the solar panel, MC4 cable with various connectors, storage bag, and user manual.

## 4. PRODUCT OVERVIEW

The FOSSIBOT SP200 is a foldable 200W monocrystalline solar panel designed for high efficiency and durability. It features an IP67 waterproof rating and adjustable kickstands for optimal sun exposure.



Image: The FOSSiBOT SP200 200W Portable Solar Panel fully unfolded, showcasing its four panels and integrated handles.

## Key Features:

- **Ultra-High Conversion Efficiency:** Made of monocrystalline silicon, achieving an ultra-high conversion efficiency of 23.4%.
- **Waterproof and Durable:** Seamless one-piece design with IP67 protection, suitable for outdoor activities. ETFE film provides UV protection.
- **Adjustable Tilting Angle:** Features adjustable kickstands for 35°, 40°, 45°, or 50° angles to maximize solar absorption.
- **Foldable Design:** Compact and portable with a handle and button design for quick storage and transport.
- **Wide Compatibility:** Designed to be compatible with most solar power stations on the market via MC4 and included adapters.



## Tempo di carica:

12~13h

Il tempo di ricarica dipende dalle condizioni meteorologiche, dall'ora solare, dal luogo di installazione e dall'angolo di installazione.



### Tipo:

MC4 TO DC5521  
MC4 TO アンダーソン  
MC4 TO XT60

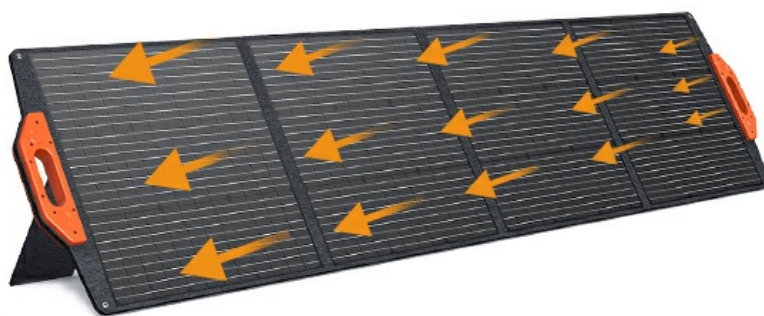


Image: The FOSSiBOT SP200 solar panel demonstrating its stable triangular support system, allowing for easy adjustment of the angle to optimize sunlight capture.

## Può essere utilizzato in tutte le situazioni



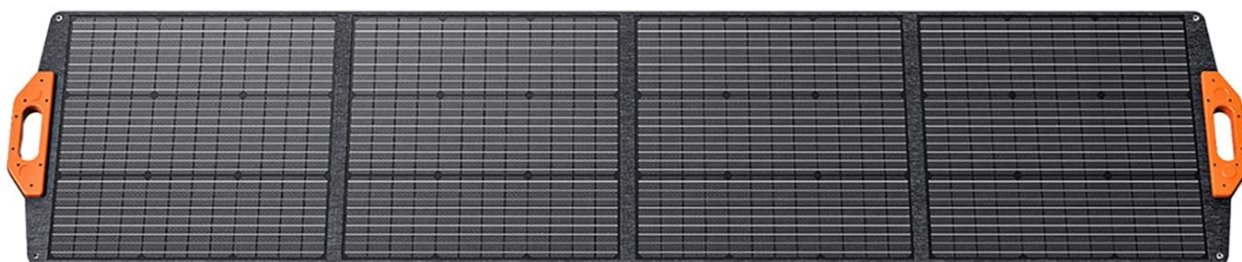
Image: The MC4 cable provided with the FOSSiBOT SP200, showing its compatibility with Anderson, XT60, and DC5521 connectors for broad power station compatibility.

## 5. SETUP

## 5.1 Unfolding and Positioning

1. Place the folded solar panel on a flat surface.
2. Carefully unfold the panels until they are fully extended.
3. Extend the integrated kickstands on the back of the panel.
4. Adjust the kickstands to achieve the optimal angle towards the sun. The panel can be set to 35°, 40°, 45°, or 50° for best performance.

### Prodotti in bundle



Pannello solare SP200 (unità principale)



Borsa di stoccaggio



Cavo per celle solari  
MC-4 da 3 pollici



Istruzioni per l'uso  
(questo manuale)

Image: The FOSSIBOT SP200 solar panel positioned outdoors, demonstrating the adjustable kickstand for optimizing the angle towards the sun.

## 5.2 Connecting to a Power Station

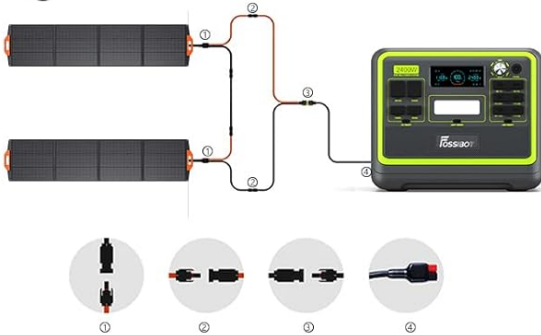
1. Identify the correct adapter on the MC4 cable that matches the input port of your power station (e.g., DC5521, Anderson, XT60).
2. Connect the MC4 connectors from the solar panel to the MC4 cable. Ensure a secure connection.
3. Plug the appropriate adapter end of the MC4 cable into the solar input port of your power station.

4. Confirm that the power station indicates it is receiving a charge.

## Collegamento in serie/ parallelo per una maggiore potenza di generazione



### Collegamento in serie



### Collegamento in parallelo

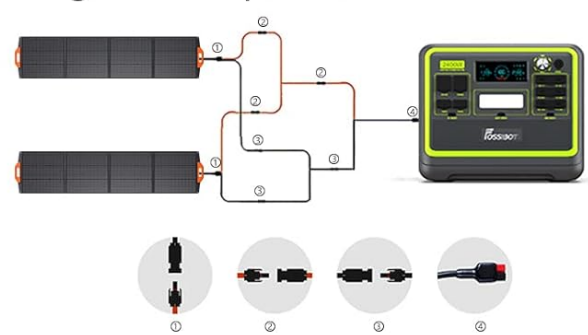


Image: The FOSSiBOT SP200 solar panel connected to a FOSSiBOT power station, demonstrating a typical setup for charging.

### 5.3 Series and Parallel Connection (Optional)

For increased power generation, multiple SP200 solar panels can be connected in series or parallel. Refer to your power station's manual for specific requirements and maximum input limits.

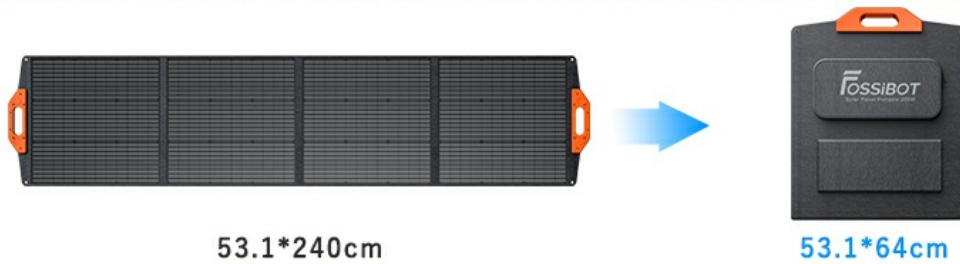


Image: Diagrams illustrating how to connect multiple FOSSIBOT SP200 solar panels in series or parallel for increased power output to a power station.

## 6. OPERATING INSTRUCTIONS

Once connected, the solar panel will automatically begin converting sunlight into electricity to charge your connected device or power station. The charging time will vary depending on several factors:

- **Sunlight Intensity:** Direct, unobstructed sunlight provides the best performance. Cloudy or shaded conditions will reduce output.
- **Panel Angle:** Ensure the panel is angled directly towards the sun for maximum efficiency. Adjust throughout the day as the sun moves.
- **Temperature:** Extreme temperatures can affect performance. Optimal operating temperature is around 25°C (77°F).
- **Connected Device:** The charging speed is also limited by the input capabilities of your power station or device.



Image: The FOSSiBOT SP200 solar panel in use during a camping trip, demonstrating its application in an outdoor environment.

## Estimated Charging Times (for FOSSiBOT F2400 Power Station):

- 1 x SP200: Approximately 10 hours for a full charge.
- 2 x SP200: Approximately 5 hours for a full charge.

## 7. MAINTENANCE

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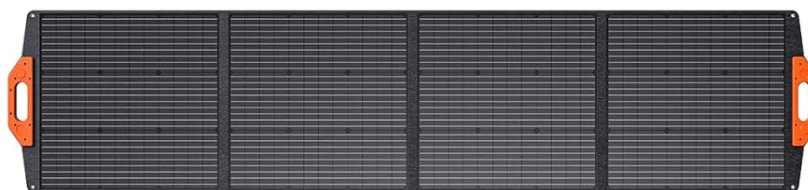
### 7.1 Cleaning

- Regularly clean the surface of the solar panel to ensure optimal performance. Dust, dirt, and debris can reduce efficiency.
- Use a soft, damp cloth to wipe the surface. Do not use harsh chemicals or abrasive materials.
- Ensure the panel is dry before folding or storing.

### 7.2 Storage

- Fold the solar panel neatly and secure it with the integrated fasteners.
- Store the panel in its provided storage bag to protect it from dust and scratches.
- Store in a cool, dry place away from direct sunlight and extreme temperatures.

# FOSSiBOT SP200 Pannello solare 200W



Numero di modello	SP200
Potenza massima	200W
Metodo di impilamento delle celle solari	ETFE
Efficienza di conversione	Fino a 23,4
Tensione di uscita (max)	18V
Corrente di uscita	11,1A
Tensione a circuito aperto	21,6V
Corrente di corto circuito	13,3A
Temperatura di funzionamento	-10°C a 65°C
Temperatura di lavoro ottimale	+25°C
Numero di fogli piegati	4 fogli
Dimensioni (aperto)	531*2400mm
Dimensioni (stivato)	531*640mm
Peso	8kg
Periodo di garanzia	12 mesi

Image: The FOSSiBOT SP200 solar panel in its folded state, highlighting its compact design and integrated handles for easy portability.

## 8. TROUBLESHOOTING

If you encounter issues with your FOSSiBOT SP200 solar panel, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power output / Low power output	Insufficient sunlight Incorrect angle Dirty panel surface Loose connection Damaged cable/panel	Move to direct sunlight Adjust panel angle Clean the panel surface Check all cable connections Contact customer support

Problem	Possible Cause	Solution
Panel overheating	Poor ventilation Extreme ambient temperature	Ensure adequate airflow around the panel Move to a cooler, shaded area if possible (may reduce output)
Connectors do not fit	Incorrect adapter used	Ensure you are using the correct adapter for your power station's input port.

If the problem persists after trying these solutions, please contact FOSSiBOT customer support.

## 9. SPECIFICATIONS

Parameter	Value
Model Number	SP200
Maximum Power	200W
Cell Type	Monocrystalline Silicon (ETFE)
Conversion Efficiency	Up to 23.4%
Output Voltage (max)	18V
Output Current	11.1A
Open Circuit Voltage	21.6V
Short Circuit Current	13.3A
Operating Temperature	-10°C to 65°C (14°F to 149°F)
Optimal Operating Temperature	25°C (77°F)
Number of Folded Panels	4
Dimensions (Unfolded)	240 x 53 x 0.5 cm (94.5 x 20.9 x 0.2 inches)
Dimensions (Folded)	53 x 64 x 5 cm (20.9 x 25.2 x 2 inches)
Weight	8 kg (17.6 lbs)
IP Rating	IP67 (Dustproof, temporary immersion up to 1m for 30 min)

# FOSSiBOT 200W Pannello solare



23,4% di alta efficienza di conversione



Elevata durata



Standard impermeabile e antipolvere IP67



Pieghevole



Parallelizzabile



Con borsa per la conservazione

Image: A detailed table of technical specifications for the FOSSiBOT SP200 200W Solar Panel.

## 10. WARRANTY AND SUPPORT

The FOSSiBOT SP200 200W Portable Solar Panel comes with a 12-month warranty period from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use.

The warranty does not cover:

- Damage caused by misuse, abuse, accident, or neglect.
- Unauthorized repair or modification.
- Normal wear and tear.
- Damage from natural disasters (e.g., lightning, flood).

For warranty claims, technical support, or any questions regarding your product, please contact FOSSiBOT customer service through the retailer where you purchased the product or visit the official FOSSiBOT website for contact information.