

## Offgridtec FSP-2 195W

# Offgridtec FSP-2 195W Foldable Solar Panel Instruction Manual

## INTRODUCTION

This manual provides detailed instructions for the safe and efficient use of your Offgridtec FSP-2 195W Foldable Solar Panel. Please read this manual thoroughly before operating the device. Proper understanding and adherence to these instructions will ensure optimal performance and longevity of your solar panel.

## SAFETY INSTRUCTIONS

- Always handle the solar panel with care. Avoid dropping or subjecting it to strong impacts.
- Do not attempt to disassemble, modify, or repair the solar panel. Unauthorized modifications can void the warranty and pose safety risks.
- Ensure proper ventilation when charging batteries. Batteries can emit gases during charging.
- Avoid direct contact with exposed electrical parts or terminals. Always ensure connections are secure and insulated.
- Keep the solar panel out of reach of children and pets.
- Use only a compatible charge controller (not included) when connecting the solar panel to a battery. Connecting directly to a battery without a charge controller can cause overcharging and damage.
- Do not immerse the solar panel in water, despite its waterproof design.
- In case of damage to the panel or cables, discontinue use immediately and contact support.

## PACKAGE CONTENTS

Verify that all items are present and in good condition upon unpacking:

- 1x Offgridtec FSP-2 195W Foldable Solar Panel
- Integrated connection cables with standard connectors (e.g., MC4, Anderson, depending on model variant)
- Integrated kickstands for positioning

## PRODUCT OVERVIEW

The Offgridtec FSP-2 195W foldable solar panel is a portable and robust solution for generating solar power. Its compact, waterproof, and extremely durable design makes it ideal for various outdoor applications such as camping, RVs, boats, and general travel. The panel features high-efficiency monocrystalline cells and integrated kickstands for easy setup.



Image: The Offgridtec FSP-2 195W Foldable Solar Panel in its folded, compact state, ready for transport or storage.



Image: The Offgridtec FSP-2 195W Foldable Solar Panel fully unfolded with its integrated kickstands deployed, showing its readiness for use.



Image: A top-down view of the Offgridtec FSP-2 195W Foldable Solar Panel in its fully unfolded configuration, showcasing the solar cells.



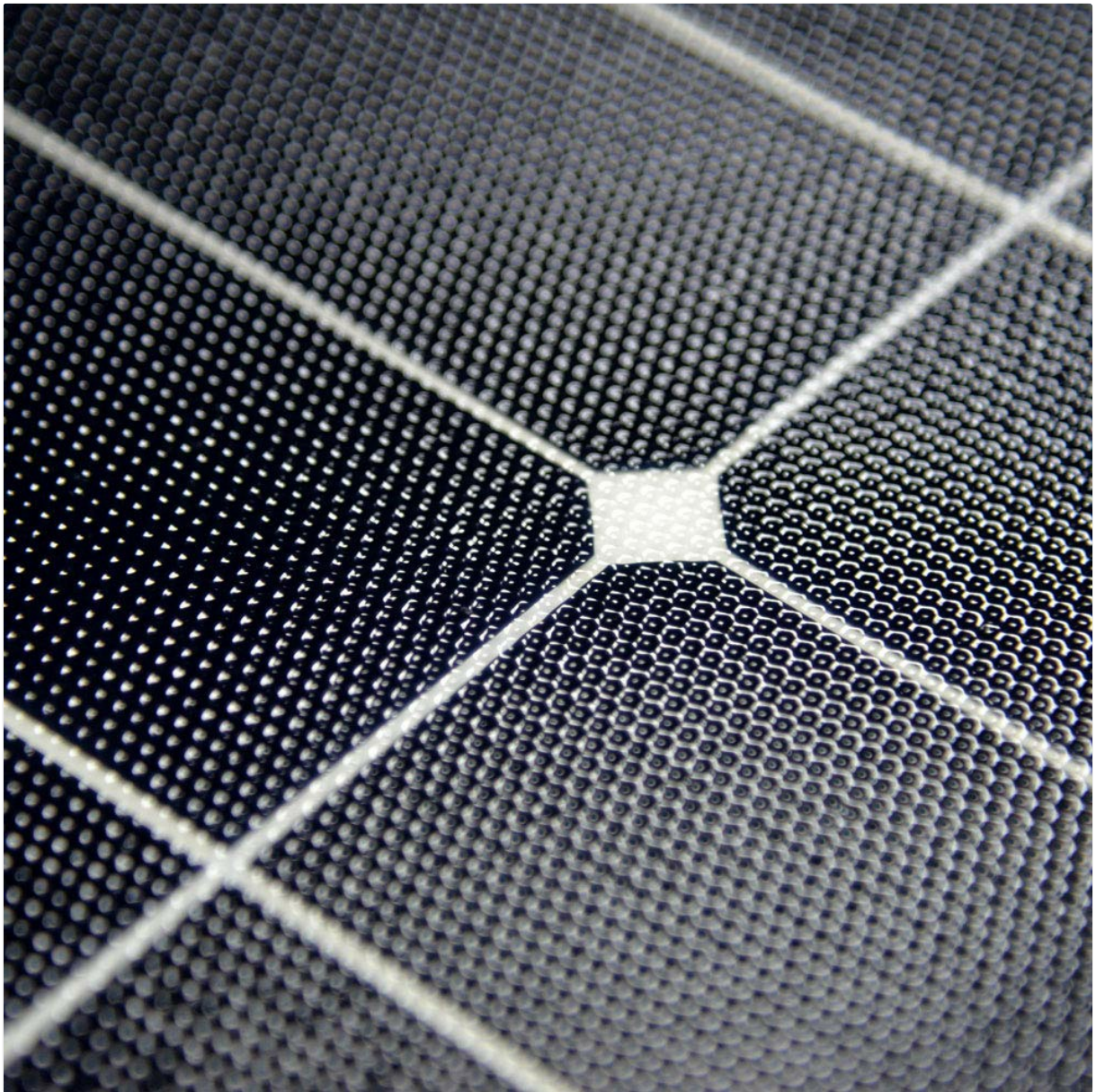


Image: A detailed close-up of the monocrystalline solar cells, highlighting the panel's construction and efficiency.





Image: The connection cables and accessories, including alligator clips and standard connectors, provided with the Offgridtec FSP-2 195W Foldable Solar Panel.

## SETUP

1. **Unfold the Solar Panel:** Carefully unfold the Offgridtec FSP-2 solar panel completely until all sections are flat.
2. **Position for Sunlight:** Place the unfolded panel in a location with direct, unobstructed sunlight. Deploy the integrated kickstands to angle the panel towards the sun for maximum exposure. Adjust the angle to match the sun's position in the sky.
3. **Connect to Charge Controller:** Connect the solar panel's output cables to a compatible solar charge controller (sold separately). Ensure the polarity is correct (positive to positive, negative to negative). The panel is designed for 12V systems.
4. **Connect to Battery/Power Station:** Connect the output of the charge controller to your battery bank or portable power station. Refer to your charge controller's manual for specific connection instructions.
5. **Verify Connection:** Once all connections are made, check the charge controller's display or indicators to confirm that power is being generated and the battery is charging.

## OPERATING INSTRUCTIONS

- **Initial Operation:** After successful setup, the solar panel will begin converting sunlight into electrical energy, which will then be regulated by the charge controller to charge your connected battery or power station.
- **Monitoring:** Regularly monitor your charge controller to observe charging status, battery voltage, and current output from the solar panel.
- **Optimal Performance:** For optimal power generation, periodically adjust the angle of the solar panel to ensure it remains directly facing the sun throughout the day. Avoid any shading on the panel surface.
- **Environmental Conditions:** The panel is designed to withstand various weather conditions. However, extreme temperatures or prolonged exposure to harsh elements may affect performance.

## MAINTENANCE

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- **Cleaning:** Keep the solar panel surface clean. Dust, dirt, leaves, or other debris can significantly reduce efficiency. Clean the panel regularly with a soft, damp cloth. Do not use abrasive materials or harsh chemicals, as these can scratch the surface or damage the protective coating.
- **Inspection:** Periodically inspect the solar panel, cables, and connectors for any signs of wear, damage, or corrosion. Ensure all connections are tight and secure.
- **Storage:** When not in use, fold the solar panel into its compact form. Store it in a dry, cool, and protected area, away from direct sunlight and extreme temperatures.
- **Avoid Punctures:** While robust, avoid placing sharp objects on or near the panel that could puncture the material.

## TROUBLESHOOTING

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- **No Power Output:**
  - Ensure the panel is in direct sunlight and not shaded by objects.
  - Check all cable connections from the panel to the charge controller and from the charge controller to the battery. Ensure they are secure and correctly polarized.
  - Verify that the charge controller is functioning correctly and is powered on.
  - Inspect cables for any visible damage or breaks.
- **Low Power Output:**
  - Adjust the panel's angle to face the sun directly.
  - Clean the panel surface to remove any dirt, dust, or debris that may be blocking sunlight.
  - Check for partial shading from trees, buildings, or other objects. Even small shadows can significantly reduce output.
  - Ensure the charge controller is correctly configured for your battery type and voltage.
  - Consider environmental factors such as heavy cloud cover or haze, which naturally reduce solar intensity.
- **Panel Overheating:**
  - Ensure adequate airflow around the back of the panel.
  - While solar panels are designed to operate in heat, extreme temperatures can slightly reduce efficiency.

## SPECIFICATIONS

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Feature	Specification
Model	FSP-2 195W
Manufacturer	Offgridtec GmbH
Maximum Power (Pmax)	195 Watt
Voltage	12 Volts (System)
Maximum Voltage (Vmp)	33.5 Volts
Current (Imp)	5.83 A
Material	Plastic (durable, waterproof)
Product Dimensions (Unfolded L x W x H)	154.5 x 44 x 0.6 cm
Folded Dimensions (L x W x H)	820 x 440 x 50 mm (approx. 82 x 44 x 5 cm)
Weight	7.58 kg (approx. 7.22 kg mentioned in feature bullets)
Special Features	Compact dimensions, waterproof, robust, resistant to trampling
Components Included	Foldable Solar Panel
Batteries Required	No
Country of Origin	China

## WARRANTY INFORMATION

Offgridtec products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to your FSP-2 195W Foldable Solar Panel, please refer to the warranty documentation included with your purchase or contact the retailer from whom you purchased the product. Information regarding spare parts availability is not provided in this manual; please inquire with your retailer or Offgridtec directly for such details.

## SUPPORT INFORMATION

For technical support, troubleshooting assistance, or any questions regarding your Offgridtec FSP-2 195W Foldable Solar Panel, please contact your authorized retailer or visit the official Offgridtec website for customer service contact details. When contacting support, please have your product model number (FSP-2 195W) and purchase information readily available.