FF FLASHFISH TSP100

FF FLASHFISH 100W 18V Foldable Solar Panel User Manual

Model: TSP100

1. Product Overview

The FF FLASHFISH 100W 18V Foldable Solar Panel is designed to provide portable and efficient solar charging for various devices, including portable power stations, smartphones, tablets, and more. Its foldable design and integrated kickstands make it ideal for outdoor activities and emergency power needs. This manual provides essential information for the proper setup, operation, and maintenance of your solar panel.

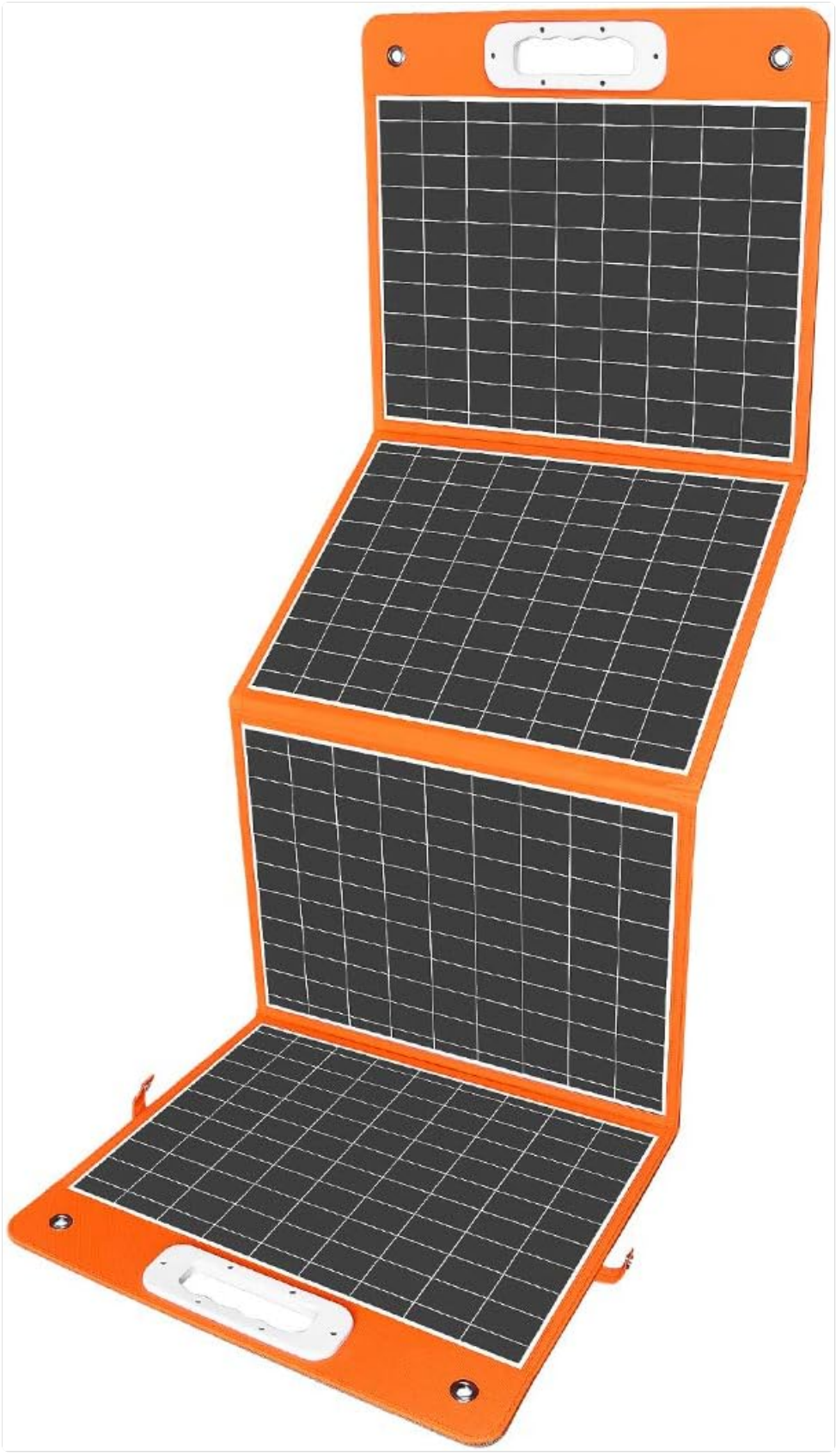


Figure 1.1: The FF FLASHFISH 100W 18V Foldable Solar Panel, showcasing its compact and portable design when folded.

2. Key Features

- **Easy Setup and Kickstand Included:** Equipped with 4 integrated kickstands for stable placement on any surface, allowing for quick setup and optimal sun exposure. The TPE rubber handle ensures easy portability.
- **Multiple Outputs:** Features one USB-C (65W PD), one USB-A (18W QC3.0), and one DC output port, enabling simultaneous charging of various devices such as smartphones, tablets, GPS units, and digital cameras.

- **High Compatibility:** Designed to charge most solar generators and portable power stations on the market, including Flashfish models, with included connectors (DC3.5*1.35mm, DC5.5*2.5mm, DC 8mm, DC6.3*3mm).
- **High Energy Conversion Efficiency:** Utilizes monocrystalline silicon solar cells with multi-layered cell technology, achieving a conversion efficiency of up to 23.5% for superior performance in sunlight.
- **Portable Design:** Lightweight at approximately 7.63 pounds and foldable to 16in x 16in, making it easy to transport, hang, and store for outdoor adventures.



Figure 2.1: Overview of the solar panel's three versatile output ports, including USB-A, USB-C, and DC, capable of charging a wide range of electronic devices.



Figure 2.2: The solar panel deployed with its integrated kickstands, demonstrating how they help angle the panel for optimal sunlight absorption in an outdoor environment.

3. Setup Instructions

1. **Unfold the Solar Panel:** Carefully unfold the solar panel completely on a flat surface.
2. **Deploy Kickstands:** Locate the four kickstands on the back of the panel. Extend them fully to support the panel at an angle.
3. **Position for Sunlight:** Angle the solar panel directly towards the sun. Adjust the kickstands as needed to maximize direct sunlight exposure throughout the day. Optimal angling can increase power output by up to 25%.
4. **Connect Your Device:** Open the zippered pouch on the back of the panel to access the output ports.
    - For portable power stations, select the appropriate DC connector (DC3.5*1.35mm, DC5.5*2.5mm, DC 8mm, or DC6.3*3mm) and connect it to the DC output port on the solar panel, then to your power station's input.
    - For USB-C compatible devices (e.g., laptops, modern smartphones), use a USB-C cable to connect to the USB-C (PD 65W) port.

- For other USB devices (e.g., older smartphones, USB fans), use a USB-A cable to connect to the USB-A (QC3.0 18W) port.

5. **Verify Charging:** Once connected, your device or power station should indicate that it is charging.



Figure 3.1: The solar panel in use, demonstrating its connection to a portable power station for charging.

4. Operating Instructions

The FF FLASHFISH 100W 18V Foldable Solar Panel operates automatically once exposed to sufficient sunlight and connected to a compatible device. Ensure the panel is positioned to receive maximum direct sunlight for optimal charging performance.

- **Optimal Sunlight:** For best results, operate the solar panel on clear, sunny days. Partial shade or cloudy conditions will reduce charging efficiency.
- **Angle Adjustment:** Periodically check the sun's position and adjust the panel's angle using the kickstands to maintain direct exposure.
- **Simultaneous Charging:** You can charge multiple devices simultaneously using the available USB-C, USB-A, and DC ports,

provided the total power draw does not exceed the panel's maximum output.

- **Safety Precautions:**
  - Do not expose the panel to extreme temperatures or direct water immersion.
  - Avoid placing heavy objects on the panel.
  - Keep the panel away from open flames or heat sources.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your solar panel.

- **Cleaning:** Gently wipe the surface of the solar panels with a soft, damp cloth to remove dust, dirt, or debris. Avoid using abrasive cleaners or harsh chemicals that could damage the panel surface.
- **Storage:** When not in use, fold the solar panel and secure it using the integrated fasteners. Store it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the cables, connectors, and the panel surface for any signs of wear, damage, or corrosion. Ensure all connections are secure before use.

6. Troubleshooting

If you encounter issues with your solar panel, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No power output / Low charging speed	Insufficient sunlight (cloudy, shaded area) Panel not angled correctly Dirty panel surface Damaged cable or connector Device not compatible or fully charged	Move panel to direct sunlight. Adjust panel angle towards the sun. Clean the panel surface. Check all cable connections; try a different cable if possible. Ensure device requires charging and is compatible with the panel's output.
USB-C PD charging is intermittent or stops	Fluctuating sunlight conditions Device drawing too much power Cable issue	Ensure consistent direct sunlight. Try charging one device at a time or a device with lower power requirements. Use a high-quality USB-C cable.
Panel appears warped after exposure to heat	Prolonged exposure to extreme heat (e.g., direct Arizona sun)	While minor warping may occur under extreme conditions, it typically does not affect functionality. Ensure proper ventilation and avoid leaving the panel in excessively hot, enclosed spaces.

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

7. Specifications

Attribute	Detail
Brand	FF FLASHFISH

Attribute	Detail
Model Number	TSP100
Material	Monocrystalline Silicon
Product Dimensions (Unfolded)	19.99"L x 20"W x 20"H (approximate, based on folded size and general panel dimensions)
Folded Size	16in x 16in
Efficiency	23.5%
Maximum Power	100 Watts
Maximum Voltage	18 Volts
AC Adapter Current	5.56 Amps
Output Ports	1x USB-C (65W PD), 1x USB-A (18W QC3.0), 1x DC Output
Included Connectors	DC3.5*1.35mm, DC5.5*2.5mm, DC 8mm, DC6.3*3mm
Item Weight	7.63 pounds
Special Features	Foldable, Portable, Integrated Kickstands

8. Warranty and Support

The FF FLASHFISH 100W 18V Foldable Solar Panel comes with a**12-month warranty** from the date of purchase.
For technical support, warranty claims, or any inquiries, please contact our customer service team. We offer**7x24 hour friendly customer service** to assist you.
Please refer to the contact information provided on the product packaging or the official FF FLASHFISH website for the most up-to-date support details.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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