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FF FLASHFISH TSP60

Flashfish 60W 18V Foldable Solar Panel Instruction Manual

Model: TSP60 | Brand: FF FLASHFISH

Product Overview

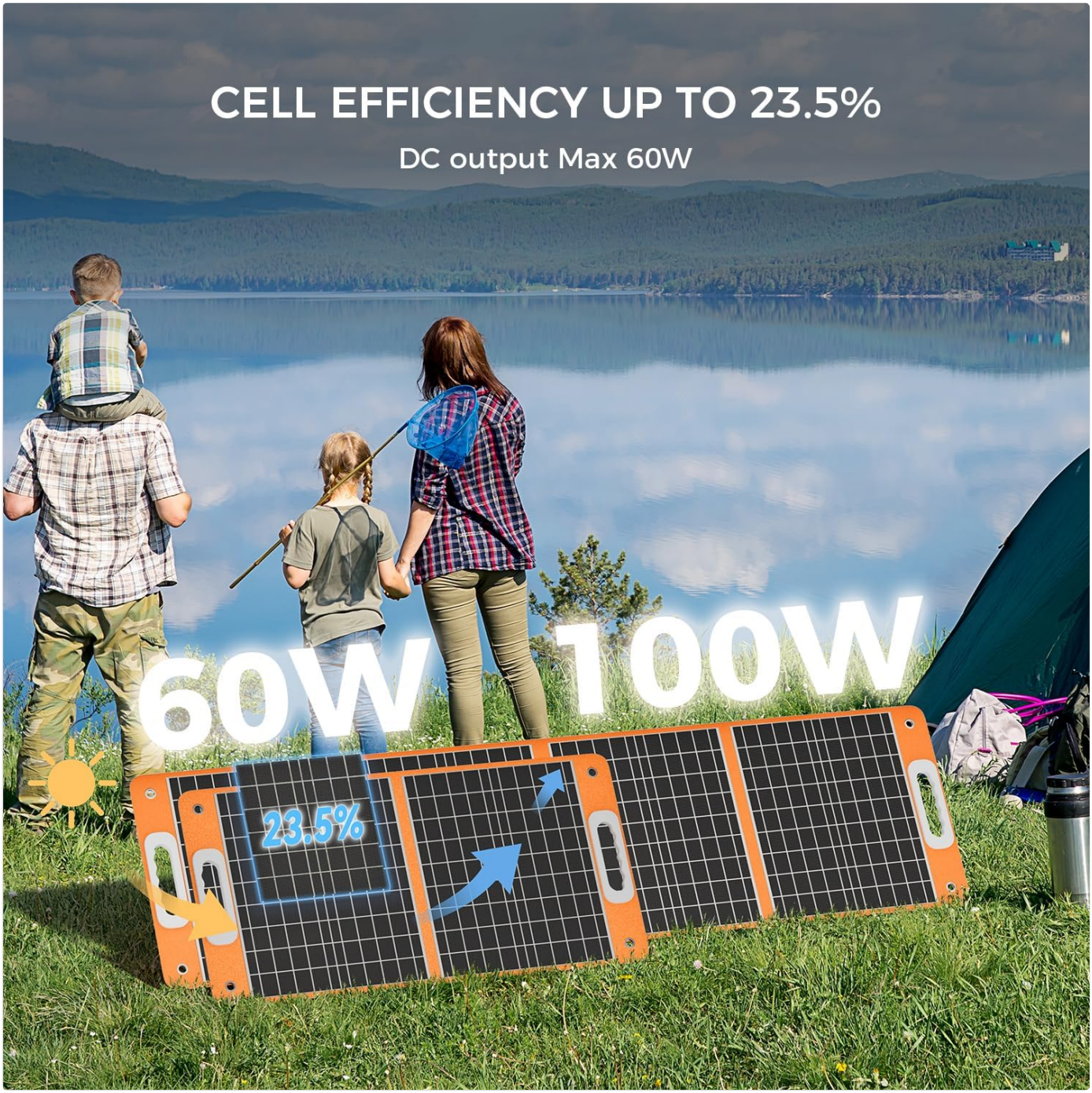
The Flashfish 60W 18V Foldable Solar Panel is a high-efficiency portable charger designed to provide power for your portable power stations, solar generators, and various USB-powered devices. Ideal for outdoor activities like camping, RV trips, or as a reliable backup power source during outages, this solar panel offers versatile charging options and a compact, foldable design for easy transport and setup.



The Flashfish 60W 18V Foldable Solar Panel in its unfolded state, ready for use. It features monocrystalline solar cells and a convenient carrying handle.

Key Features

- **High Energy Conversion Efficiency:** Equipped with monocrystalline silicon solar cells, achieving up to 23.5% conversion efficiency.
- **Multiple Output Options:** Features 1x USB-C (65W), 1x USB-A (18W) port, and 1x DC Output for charging various devices simultaneously.
- **Foldable and Portable Design:** Lightweight (4.79 pounds) with a TPE rubber handle for easy carrying, folding down to a compact size.
- **Integrated Kickstands:** Includes 4 kickstands for stable placement and optimal angle adjustment towards the sun.
- **High Compatibility:** Comes with 4 different connectors (DC3.5*1.35mm, DC5.5*2.5mm, DC 8mm, DC6.3*3mm) to charge most solar generators and portable power stations.



The solar panel utilizes high-efficiency monocrystalline cells to maximize energy capture from sunlight.

Setup Instructions

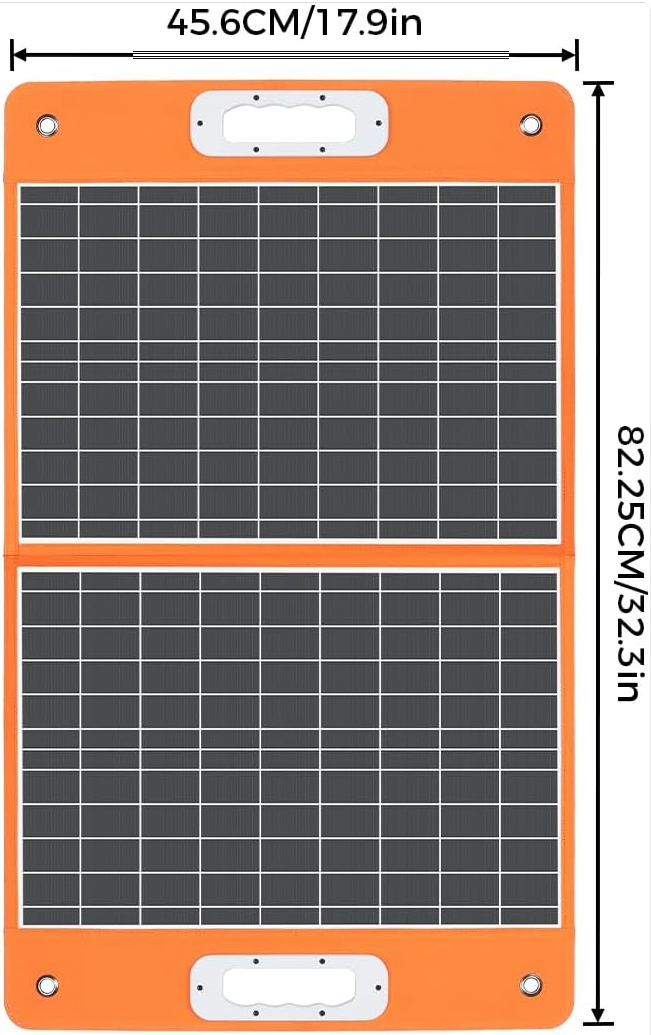
1. **Unfold the Solar Panel:** Carefully unfold the Flashfish 60W solar panel completely.
2. **Position with Kickstands:** Extend the integrated kickstands on the back of the panel. Adjust them to angle the solar panel directly towards the sun for maximum efficiency.
3. **Connect to Device:** Locate the zippered pouch on the back of the panel. Inside, you will find the DC output port and various connectors. Select the appropriate connector for your portable power station or solar generator. Plug the DC5521 charging cable into the solar panel's DC output and then connect it to your power station.
4. **Connect USB Devices:** For smartphones, tablets, or other USB-powered devices, use the USB-C (65W) or USB-A (18W) ports located within the zippered pouch.



DC18V5.5*2.1mmcable







Contents:

18V/60W Solar Panel X1

18V DC Cable 5.5x2.1mm X1

8mm Connector X1

5.5x2.5mm Connector X1

3.5x1.35mm Connector X1

Dimensions and contents of the Flashfish 60W 18V Foldable Solar Panel, including various DC connectors.



The two kickstands allow for angle adjustment to achieve maximum efficiency in absorbing solar energy.

Operating Instructions

Once set up, the Flashfish solar panel will automatically begin converting sunlight into electricity. Ensure the panel is in direct sunlight and adjust its angle periodically to follow the sun's path for continuous optimal charging. The multiple output ports allow for simultaneous charging of various devices.



The control panel offers multiple output options for diverse charging needs.



Charge multiple devices simultaneously, such as power stations, smartphones, and drones.

Official video demonstrating the Flashfish solar panel, including its features and how it charges devices. Note: This video may feature a 100W variant, but the functionality is similar for the 60W model.

Maintenance

- **Cleaning:** Regularly wipe the solar panels with a soft, damp cloth to remove dust, dirt, or debris that may reduce efficiency. Avoid abrasive cleaners or harsh chemicals.
- **Storage:** When not in use, fold the solar panel and store it in a dry, cool place away from direct sunlight and extreme temperatures. Ensure all cables are neatly stored in the zippered pouch.
- **Inspection:** Periodically check the panel and cables for any signs of damage, wear, or corrosion.

Troubleshooting

- **No Charging Output:**

- Ensure the solar panel is in direct sunlight and not shaded.
- Verify all connections are secure and the correct adapter is used for your device.
- Check for any visible damage to the panel or cables.

- **Low Charging Speed:**
  - Adjust the panel's angle to face the sun directly.
  - Clean the panel surface to remove any obstructions.
  - Cloudy weather or indirect sunlight will naturally reduce charging efficiency.
- **Device Not Recognized:**
  - Try connecting a different device to confirm the panel's functionality.
  - Ensure your device is compatible with the output specifications (voltage/current) of the solar panel ports.

Specifications

Attribute	Value
Brand	FF FLASHFISH
Model Number	TSP60
Material	Monocrystalline Silicon
Maximum Power	60 Watts
Maximum Voltage	18 Volts
Efficiency	Up to 23.5%
Product Dimensions (Folded)	19.99"L x 20"W x 20"H (approximate, based on folded form factor)
Item Weight	4.79 pounds
Output Ports	1x USB-C (65W), 1x USB-A (18W), 1x DC Output
Included Components	1*60W Solar Panel, 1*DC5521 Charging Cable, 4 Connectors



The lightweight and foldable design makes the solar panel easy to carry for any adventure.

Warranty and Support

The Flashfish 60W 18V Foldable Solar Panel comes with a **12-month warranty** from the date of purchase. For any product-related inquiries, technical assistance, or warranty claims, please contact our customer service team. We offer **7x24 hour friendly customer service** to ensure your satisfaction.
For further support, please refer to the contact information provided in your product packaging or visit the official FF FLASHFISH website.

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