

DOKIO FFSP110M

DOKIO 100W 18V Portable Foldable Solar Panel Kit

Model: FFSP110M
User Instruction Manual

1. INTRODUCTION

Thank you for choosing the DOKIO 100W 18V Portable Foldable Solar Panel Kit. This manual provides essential information for the safe and efficient operation of your solar panel. Please read it thoroughly before use and retain it for future reference.

This portable solar panel is designed for outdoor and emergency power needs, offering a lightweight and high-efficiency solution for charging 12V batteries and various power stations.

2. SAFETY INFORMATION

- Do not attempt to disassemble, repair, or modify the solar panel or controller.
- Ensure all connections are secure and correct before applying power. Incorrect wiring can cause damage.
- Keep the solar panel away from fire, water, and corrosive substances.
- Avoid dropping or subjecting the panel to strong impacts.
- Do not step on the solar panel.
- When connecting to a battery, ensure correct polarity (+ to + and - to -) to prevent damage to the controller and battery.
- Always handle the solar panel with care, especially the solar cells.

3. PACKAGE CONTENTS

Verify that all items are included in your package:

- 1x DOKIO 110W Solar Panel
- 1x DOKIO 10A PWM Solar Charge Controller (Detachable)
- 1x 9.8ft (3m) Cable (SAE to XT60)
- 1x 3.3ft (1m) Cable (XT60 to Alligator clips)
- 1x JY60 Short Connector (JY60 to DC)
- 5x DC Conversion Adapters (8.0mm, 3.5x1.35mm, 5.5x2.1mm, 5.5x2.5mm, 6.4x4.0mm)
- 1x Product Instruction Manual

LIGHT, STOW-READY



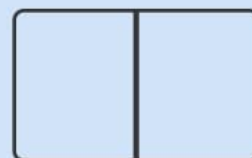
Net weight

9.7lb
2.4kg



Folded size

19 x 26 x 0.5in
48 x 66 x 1.2cm



Unfolded Size

38 X 26 x 0.3in
96 X 66 x 0.6cm

Image: All components included in the DOKIO 100W Portable Foldable Solar Panel Kit, including the folded solar panel, solar charge controller, various cables, and DC adapters.

4. SETUP INSTRUCTIONS

4.1 For 12V Batteries (AGM, LiFePo4, Deep Cycle, etc.)

1. **Unfold the Solar Panel:** Carefully unfold the DOKIO solar panel and place it in direct sunlight. For optimal performance, angle the panel towards the sun.
2. **Connect the Controller to Battery:** Connect the alligator clips cable (3.3ft/1m) to the solar charge controller. Then, connect the red alligator clip to the positive (+) terminal of your 12V battery and the black alligator clip to the negative (-) terminal. Ensure a secure connection.
3. **Connect Solar Panel to Controller:** Connect the XT60 end of the 9.8ft (3m) cable to the solar panel's output port. Connect the SAE end of this cable to the input port on the solar charge controller.
4. **Verify Connection:** The LCD display on the solar charge controller should light up, indicating the battery voltage and charging status.

4.2 For Power Stations (Jackery, Goal Zero, Ecoflow, Paxcess, etc.)

If your power station has a built-in MPPT controller, you do not need to use the included PWM charge controller.

1. **Unfold the Solar Panel:** Place the DOKIO solar panel in direct sunlight, angling it for maximum exposure.
2. **Connect Solar Panel to Power Station:** Connect the XT60 end of the 9.8ft (3m) cable to the solar panel's output port.
3. **Select Appropriate Adapter:** Choose the correct DC conversion adapter from the included set that matches the input port of your power station (e.g., 8.0mm, 5.5x2.1mm, 5.5x2.5mm, 3.5x1.35mm).
4. **Connect Adapter to Cable:** Attach the selected DC adapter to the other end of the 9.8ft (3m) cable.
5. **Connect to Power Station:** Plug the adapter into the solar input port of your power station.
6. **Verify Charging:** Your power station's display should indicate that it is receiving a charge from the solar panel.

JUST 3 STEPS, EASY TO USE

FOR 12V BATTERY



FOR POWER STATION



Image: Visual guide showing the three-step setup process for connecting the DOKIO solar panel to either a 12V battery with the included controller or directly to a power station using various DC adapters.

5. OPERATING INSTRUCTIONS

5.1 Optimal Placement

For maximum power output, ensure the solar panel is placed in direct sunlight without any shading. Angle the panel directly towards the sun. The included 9.85ft (3m) cable allows for flexible placement.

UNIQUE, FULL-SET ACCESSORIES



Detachable non-integrated LCD controller: **Safer**

Product Instructions*1



9.8ft/3m cable*1



3.3ft/1m cable*1



JY60 short connector*1



3.5x1.35mm



5.5x2.1mm



5.5x2.5mm



5.5x2.5mm



8mm

Image: A DOKIO solar panel deployed in a grassy field next to an RV, connected to a power station with a long cable, demonstrating flexible placement for optimal sun exposure.

5.2 Using the Solar Charge Controller (for 12V Batteries)

The detachable PWM solar charge controller provides intelligent protection features:

- **Overcharge Protection:** Prevents battery damage from excessive charging.
- **Overload Protection:** Protects against drawing too much current.
- **Short-circuit Protection:** Safeguards against short circuits.
- **Over-discharge Protection:** Prevents battery from being drained too low.
- **Reverse Polarity Protection:** Protects against incorrect battery connections.
- **Temperature Compensation:** Adjusts charging parameters based on temperature.

The controller also features integrated 5V 2A USB ports for charging phones and other USB devices directly.

LONG CABLE, LAZY DAYS



Image: A diagram highlighting the protective features of the DOKIO solar charge controller, including overcharge, overload, short-circuit, over-discharge, reverse polarity, and temperature compensation.

5.3 Applications

The DOKIO 100W portable solar panel is ideal for various applications:

- Camping and RVs
- Boating and marine use
- Emergency power backup
- Outdoor activities and hiking
- Charging 12V batteries (AGM, LiFePo4)
- Powering portable devices via USB

PROTECTIVE LCD CONTROLLER

Battery Health Level:



With MultiProtect



Without MultiProtect

Overcharge
Protection

Overload
Protection

Short-circuit
Protection

Over-discharge
Protection

Temperature
Compensation

Reverse Polarity
Protection

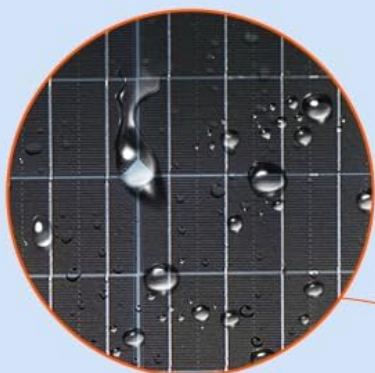


Image: A collage showing various scenarios where the DOKIO solar panel can be used, including camping, RVs, hiking, and providing emergency power in a disaster-affected area.

6. MAINTENANCE

- **Cleaning:** Regularly wipe the solar panel surface with a soft, damp cloth to remove dust, dirt, or debris. A clean surface ensures optimal power generation. Do not use harsh chemicals or abrasive materials.
- **Inspection:** Periodically inspect cables and connectors for any signs of wear, damage, or corrosion. Ensure all connections remain tight.
- **Storage:** When not in use, fold the solar panel and store it in a dry, cool place away from direct sunlight and extreme temperatures. The integrated pocket can store cables and the controller.
- **Water Resistance:** The panel is water-resistant, but avoid submerging it in water.

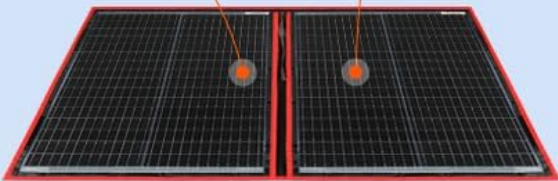
QUALITY IN EVERY DETAIL



Water-resistant



High-Efficiency
A+ Mono Cells



Roomy pocket



Handle

Image: Close-up views highlighting the water-resistant surface, high-efficiency monocrystalline cells, roomy accessory pocket, and durable handle of the DOKIO solar panel.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No power output / Low power output	◦ Insufficient sunlight or shading. ◦ Incorrect panel angle. ◦ Dirty panel surface. ◦ Loose or incorrect connections. ◦ Damaged cable or controller. ◦ Power station input limit.	◦ Relocate panel to direct sunlight. ◦ Adjust panel angle for optimal sun exposure. ◦ Clean the panel surface. ◦ Check all cable connections and ensure correct polarity. ◦ Inspect cables and controller for damage. Replace if necessary. ◦ Verify your power station's maximum solar input.
Controller display not working	◦ No power from solar panel or battery. ◦ Controller malfunction.	◦ Ensure solar panel is in sunlight and battery is connected. ◦ Contact customer support if problem persists.
USB ports not charging devices	◦ Insufficient solar input. ◦ Device not compatible.	◦ Ensure strong sunlight on the panel. ◦ Check device's charging requirements.

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Video: An official DOKIO video demonstrating how to use the solar charge controller, including connecting it to a battery and solar panel, and showing the display functions.

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Video: An official DOKIO video explaining common reasons for low power output from the solar panel and how to address them, such as panel placement and environmental factors.

8. SPECIFICATIONS

Brand	DOKIO
Model	FFSP110M
Maximum Power	110 Watts
Maximum Voltage	18 Volts
AC Adapter Current	6.1 Amps
Material	Monocrystalline Silicon
Efficiency	High Efficiency (22-23% conversion rate)
Product Dimensions (Unfolded)	26"L x 18.9"W x 0.47"H (66cm x 48cm x 1.2cm)
Folded Size	21" x 20" x 1" (54cm x 50cm x 2.4cm)
Item Weight	6 Pounds (2.7kg)
Connector Type	SAE/XT60/DC/Alligator clips

Included Components	Solar panel, charge controller, cables, adapters, bag
Country of Origin	China
UPC	613852957431



Image: The DOKIO 100W portable foldable solar panel kit, showcasing its compact and lightweight design when folded, along with the included accessories.

9. WARRANTY & SUPPORT

Warranty: The DOKIO 100W 18V Portable Foldable Solar Panel Kit comes with a 1-year limited warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

What is NOT Covered: This warranty does not cover damage caused by misuse, abuse, accident, unauthorized modification, improper installation, natural disasters, or any other causes not related to defects in materials or workmanship.

Customer Support: For technical assistance, warranty claims, or any questions regarding your DOKIO product, please

contact DOKIO customer service. You can often find contact information on the product packaging, the official DOKIO website, or through your point of purchase.

For common issues and fixes, you may also refer to the [product page on Amazon](#) or the official DOKIO store for additional resources and FAQs.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question