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› DOKIO 300W Portable Foldable Monocrystalline Solar Panel Kit User Manual

## DOKIO FFSP-320M

# DOKIO 300W Portable Foldable Monocrystalline Solar Panel Kit User Manual

## 1. INTRODUCTION

The DOKIO 300W Portable Foldable Monocrystalline Solar Panel Kit is designed to provide efficient and reliable solar power for various outdoor and off-grid applications. This manual contains essential information for the safe and effective setup, operation, and maintenance of your solar panel kit. Please read it thoroughly before use.

## 2. WHAT'S IN THE BOX

Your DOKIO 300W Solar Panel Kit includes the following components:

- DOKIO 300W 18V Foldable Monocrystalline Solar Panel
- 20A LCD Charge Controller
- 3-meter SAE to XT60 Cable
- XT60 to Alligator Clip Cable
- JY60 to DC Cable
- 5 DC Conversion Adapters (8mm, 6.4\*4mm, 5.5\*2.5mm, 5.5\*2.1mm, 3.5\*1.35mm)
- Storage Bag
- Product Instructions (this manual)

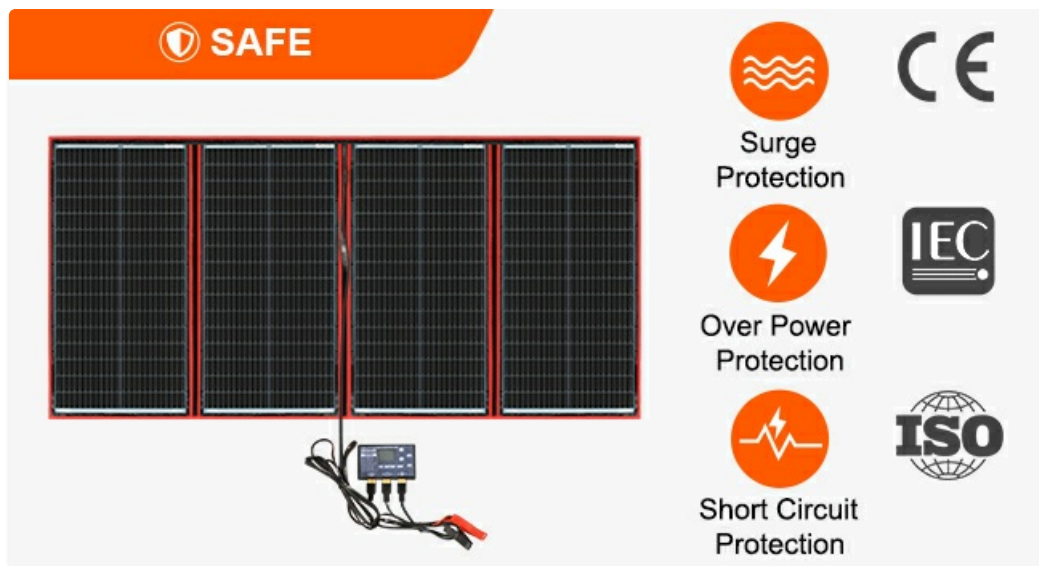


Image: Overview of the DOKIO 300W Solar Panel Kit components, including the detachable LCD controller, various cables, and DC adapters.

### 3. SETUP INSTRUCTIONS

Follow these steps to set up your DOKIO solar panel kit:

#### 3.1. For 12V Battery Charging

1. Connect the XT60 to Alligator Clip Cable to your 12V battery (Lead-acid, Lithium, AGM, LiFePO4). Ensure correct polarity.
2. Connect the 20A LCD Charge Controller to the XT60 to Alligator Clip Cable.
3. Connect the DOKIO 300W Solar Panel to the 20A LCD Charge Controller using the appropriate cable (e.g., 3-meter SAE to XT60 Cable).

#### 3.2. For Power Station Charging

1. Connect the DOKIO 300W Solar Panel to the JY60 to DC Cable.
2. Select the correct DC Conversion Adapter (8mm, 6.4\*4mm, 5.5\*2.5mm, 5.5\*2.1mm, or 3.5\*1.35mm) that matches your power station's input port. Attach it to the JY60 to DC Cable.
3. Connect the assembled cable to your power station's DC input port.

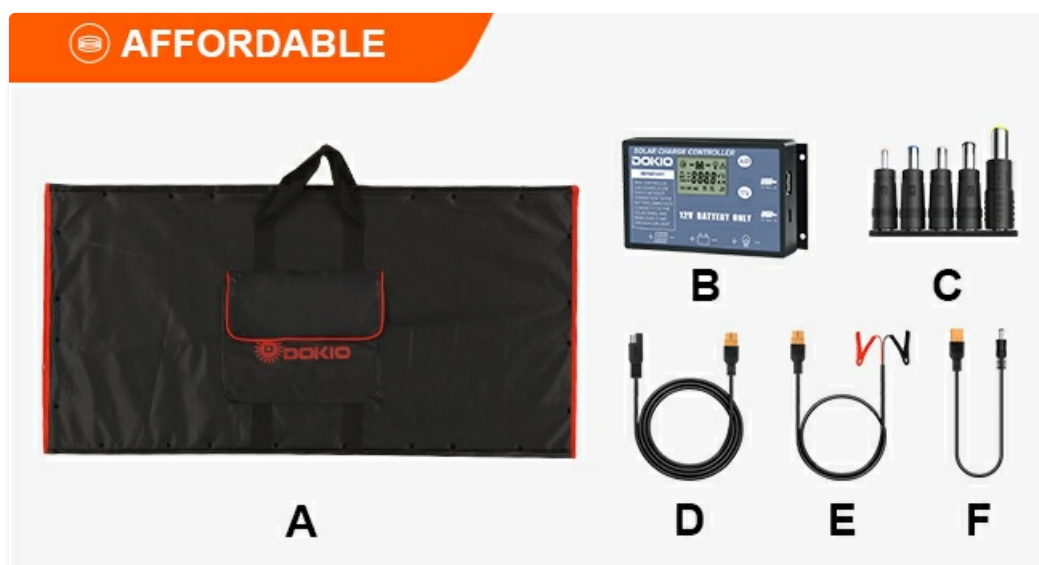


Image: Step-by-step connection diagrams for charging 12V batteries and power stations.

### 3.3. Maximizing Power Output

- **Angle Towards the Sun:** Solar panels perform best when angled directly (ideally 90°) towards the sun. Adjust the panel's position throughout the day for optimal performance.
- **Clear and Shadow-Free:** Ensure the panel surface is uncovered and free from any shadows, which can significantly reduce efficiency.
- **Clean Surface:** Regularly wipe the solar panel surface with a damp cloth to remove dust and dirt.
- **Check Power Station Input:** Be aware of your power station's maximum input wattage, as it may cap the charging rate regardless of the solar panel's output.



Image: Visual guide on how to maximize the power output of your solar panel.

## 4. OPERATING INSTRUCTIONS

The DOKIO 300W solar panel utilizes high-efficiency monocrystalline solar cells, achieving a conversion efficiency of up to 23%. Its advanced manufacturing reduces internal resistance and power loss, resulting in superior output performance.

### 4.1. 20A LCD Charge Controller

The included 20A LCD charge controller is designed to protect your battery during charging. It features:

- Overcharge Protection
- Overload Protection
- Short-circuit Protection
- Over-discharge Protection
- Temperature Compensation
- Reverse Polarity Protection

The controller also includes two 5V 2A USB ports for charging mobile phones and tablets directly.



Image: Diagram illustrating the protective features of the LCD charge controller.

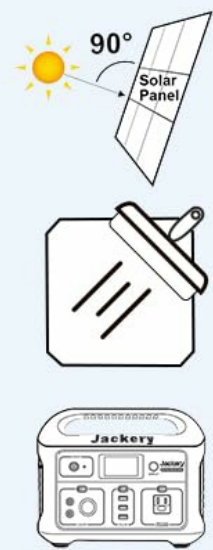
## 4.2. Typical Applications

This portable solar panel kit is suitable for various scenarios:

- **Camping:** Powering lights, small appliances, and charging devices at your campsite.
- **RV/Camper Vans:** Maintaining battery charge for recreational vehicles.
- **Hiking/Trekking:** Providing portable power during extended outdoor trips.
- **Emergency Power:** A reliable backup power source during outages.

# HOW TO **MAXIMIZE** POWER OUTPUT?

- 1 Peak sunlight (noon) hits hardest. Solar panels perform best when angled 90° toward the sun.
- 2 Keep the panel uncovered and shadow-free. Wipe the solar panel surface with a damp cloth to remove dust and dirt.
- 3 Do your power stations have a maximum input wattage? For example, the Jackery Explorer 500 caps its input at 100W regardless of the charger's output

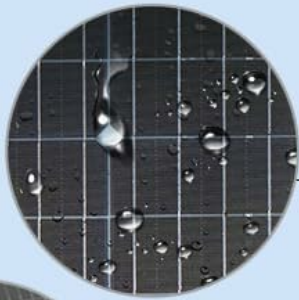


## TECHNICAL DETAILS

|                       |      |             |
|-----------------------|------|-------------|
| Maximum power         | Pmax | 300 Wp ± 3% |
| Open circuit voltage  | Voc  | 22.50 V     |
| Short-circuit current | Isc  | 16.92 A     |
| Maximum power voltage | Vmp  | 18.00 V     |
| Maximum power current | Imp  | 16.67 A     |

Image: DOKIO 300W portable solar panel in use next to an RV, showcasing its outdoor application.

# DÉTAILS QUI FACILITENT LA VIE



## Résistant à l'eau

Utilisation sous pluie légère



## Haute efficacité

Charge plus rapide



## Poignée de transport facile

Idéal pour les voyages



## Grande poche

Rangement pour câbles et manette

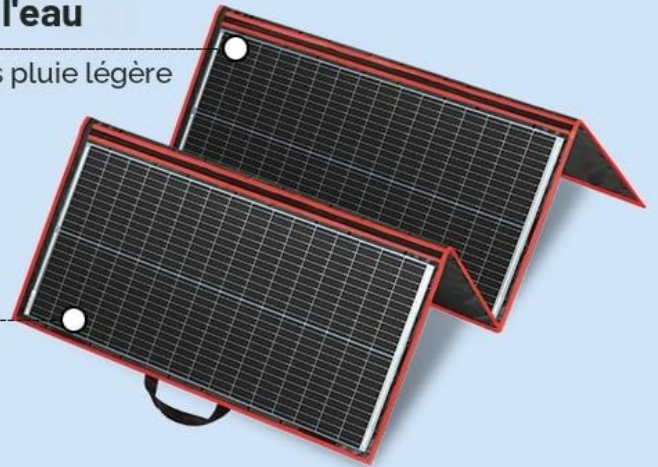


Image: The solar panel deployed at a campsite, providing power for a tent.

# RESTEZ CHARGÉ PARTOUT, À TOUT MOMENT !



Camping



Camping-cars



Randonnée



Alimentation  
d'urgence

Image: The solar panel connected to a battery for charging.

## 5. MAINTENANCE

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

- **Cleaning:** Regularly inspect and clean the solar panel surface. Use a soft, damp cloth to remove dust, dirt, leaves, or other debris. Avoid abrasive cleaners or harsh brushes that could scratch the surface.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion.
- **Storage:** When not in use, fold the solar panel and store it in its provided storage bag in a dry, cool place away from direct sunlight and extreme temperatures.
- **Water Resistance:** The panel is designed for use in light rain. However, avoid prolonged exposure to heavy rain or submersion in water. Ensure the charge controller and connections are kept dry.

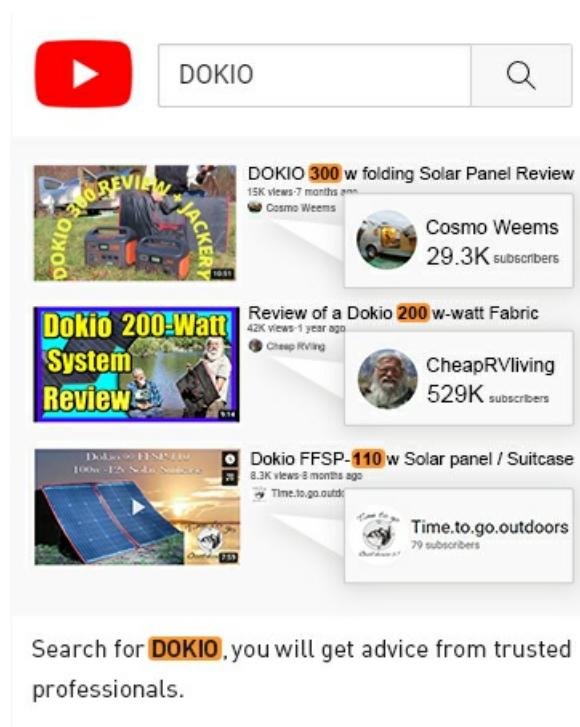


Image: Details highlighting the water-resistant design and convenient storage features of the DOKIO solar panel.

## 6. TROUBLESHOOTING

If you encounter issues with your DOKIO solar panel kit, refer to the following common problems and solutions:

- **Low Power Output:**
  - Ensure the panel is angled directly towards the sun (ideally 90°).
  - Check for any shadows cast on the panel surface.
  - Clean the panel surface to remove dust or dirt.
  - Verify that your power station or battery is not limiting the input wattage.
- **No Charging Indication:**
  - Check all cable connections for secure fit.
  - Ensure the charge controller is correctly connected to both the solar panel and the battery/power station.
  - Verify the battery type setting on the charge controller matches your battery (if applicable).
  - Confirm there is sufficient sunlight.
- **Controller Display Not Working:**
  - Ensure the controller is properly connected to a power source (solar panel or battery).
  - Check for any visible damage to the controller or cables.

## 7. SPECIFICATIONS

| Feature                         | Specification           |
|---------------------------------|-------------------------|
| Brand                           | DOKIO                   |
| Model Number                    | FFSP-320M               |
| Material                        | Monocrystalline Silicon |
| Maximum Power (Pmax)            | 300 Wp ± 3%             |
| Open Circuit Voltage (Voc)      | 22.50 V                 |
| Short-Circuit Current (Isc)     | 16.92 A                 |
| Maximum Power Voltage (Vmp)     | 18.00 V                 |
| Maximum Power Current (Imp)     | 16.67 A                 |
| Unfolded Dimensions (L x W x H) | 195 x 95 x 0.6 cm       |
| Folded Dimensions (L x W x H)   | 49 x 95 x 2.8 cm        |
| Item Weight                     | 6.9 kg                  |
| Efficiency                      | Up to 23%               |
| Output Voltage                  | 12 Volts (DC)           |
| Connector Type                  | USB, DC Adapters        |
| UPC                             | 682559949063            |



Image: The DOKIO 300W solar panel folded and stored, illustrating its compact and lightweight design.

8. WARRANTY AND SUPPORT

DOKIO is committed to providing quality products and customer service. If you have any questions or concerns about your product, please do not hesitate to contact the DOKIO team. We will do our best to assist you and provide a satisfactory response.

For support, please refer to the contact information provided with your purchase or visit the official DOKIO website.

### 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

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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.

Submit question

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