

DOKIO ffsp-160m

DOKIO 160W Portable Solar Panel Kit Instruction Manual

Your guide to efficient and reliable portable power.

PRODUCT OVERVIEW

The DOKIO 160W 18V Portable Solar Panel Kit is designed to provide reliable power for various applications, including charging 12V batteries and portable power stations. Its lightweight and foldable design makes it ideal for outdoor adventures, RVs, camping, and emergency power needs.

Key Features

- **Foldable and Lightweight:** Weighs only 7.28lb (3.3kg) and is 1.1inch (2.8cm) thick, making it highly portable and easy to store.
- **Complete Kit:** Includes a 10A charge controller and various connectors for immediate use with 12V batteries and most power stations.
- **High Efficiency:** Features high-efficiency monocrystalline solar cells for maximum power output even in smaller panel sizes.
- **Durable Design:** Built with an ETFE high transparency coating and IP65 waterproof rating for outdoor durability.
- **Safety Protections:** The included controller offers protection against overcharging, overload, and short-circuits.



The DOKIO 160W Portable Solar Panel Kit includes the foldable solar panel, a solar charge controller, and multiple connection cables and adapters for versatile use.

LIGHTWEIGHT AND FOLDABLE

Only 7lb (3.3kg)



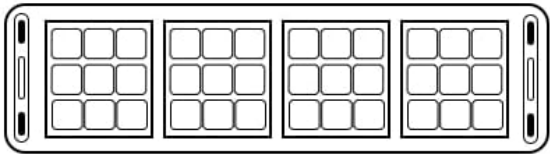
		  
Maximum power	Pmax	160 W $\pm$ 3%
Open circuit voltage	(V _{oc})	22.50 V
Maximum power voltage	(V _{mp})	18.00 V
Short-circuit current	(I _{sc})	9.14 A
Maximum power current	(I _{mp})	8.89 A
Net Weight		3.3 kg (7 lb)
Unfolded Dimensions	195 x 53 cm / 85 x 21 inch	

Weighing only 7.28lb (3.3kg) and folding to 1.1 inches thick, the DOKIO solar panel is designed for easy transport and storage.

WHY CHOOSE DOKIO SOLAR PANEL?

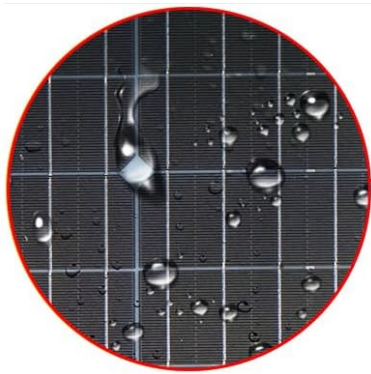


VS

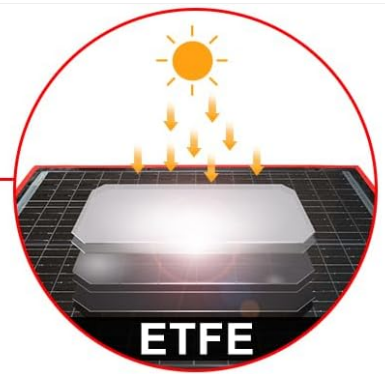


	DOKIO 160W	OTHER 150W
Brand	 Founded in 2007	 Newly created
Price	 Affordable	 Expensive
Controller	 LCD Smart	 Basic Controller
Weight	 7lb(3.3kg)	 18lb(8kg)
Thickness	 0.9"(2.2cm)	 3"(7.6cm)

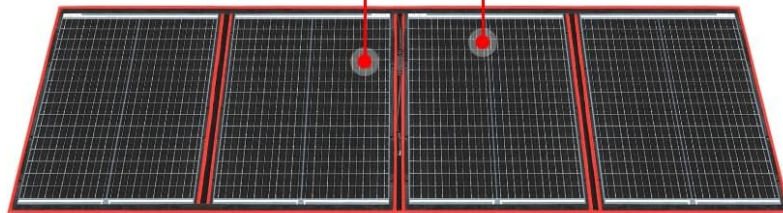
DOKIO solar panels offer superior portability and advanced features compared to traditional models, with a focus on high efficiency and user-friendly design.



IP65 Waterproof



High transparency



Carrying Bag



Handle

Built with durable materials and an IP65 waterproof rating, the DOKIO solar panel is designed for outdoor use and includes a convenient carrying bag for accessories.

SETUP

Unboxing and Components

Before setting up your solar panel, ensure all components are present and undamaged. The DOKIO 160W kit includes:

- 1x DOKIO 160W Solar Panel
- 1x 10A Solar Charge Controller
- 1x 9.8FT Cable (SAE to XT60)
- 1x 3.3FT Cable (XT60 to Alligator clip)
- 1x Cable (JY60 to DC)
- 5x DC Conversion Adapters (8.0mm, 3.5*1.35mm, 5.5*2.1mm, 5.5*2.5mm, 6.4*4.0mm)



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Search for **DOKIO**, you will get advice from trusted professionals.

The kit comes complete with all necessary cables and adapters for immediate use, including a 10A charge controller and various DC connectors.

Connecting to Power Station

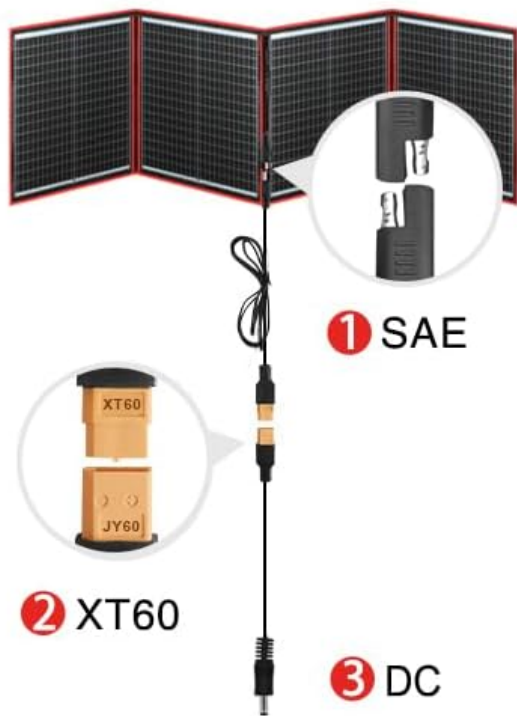
To connect the solar panel to a power station:

1. Unfold the solar panel and position it in direct sunlight.
2. Connect the SAE end of the 9.8FT SAE to XT60 cable to the solar panel's output.
3. Attach the appropriate DC conversion adapter to the XT60 end of the cable, matching your power station's input port.
4. Plug the DC adapter into your power station's solar input port.

TWO USES, WORKS OUT OF THE BOX

Watch The **Video** "HOW TO USE"

For Power Station



NOTE: No need to connect to the controller

For 12v Battery



For power stations, connect the solar panel using the SAE to XT60 cable, then use the appropriate DC conversion adapter for your power station's input.

This video demonstrates the basic setup and connection process for the DOKIO portable solar panel, showing how to unfold it and connect the necessary cables.

Connecting to 12V Batteries

To charge 12V batteries (AGM, LiFePo4, Deep Cycle batteries):

1. Unfold the solar panel and position it in direct sunlight.
2. Connect the SAE end of the 9.8FT SAE to XT60 cable to the solar panel's output.
3. Connect the XT60 end of the 9.8FT SAE to XT60 cable to the solar charge controller's input.
4. Connect the XT60 to Alligator clip cable to the controller's battery output.
5. Attach the alligator clips to your 12V battery terminals (red to positive, black to negative).

TWO USES, WORKS OUT OF THE BOX

Watch The **Video** "HOW TO USE"

For Power Station



NOTE: No need to connect to the controller

For 12v Battery



To charge 12V batteries, connect the solar panel to the 10A controller, then use the XT60 to Alligator clip cable to connect the controller to your battery.

This video provides a detailed guide on how to operate the DOKIO solar charge controller, including connecting it to a battery and understanding its display.

Optimal Panel Placement

For optimal power generation, position the solar panel to receive direct sunlight at a 90-degree angle. Avoid any shading on the panel surface.

HOW TO GET THE **HIGHER** POWER

⚠️ WARM TIPS: The product does not include a bracket !



Bracket Purchased Separately



For maximum power output, position the solar panel at a 90-degree angle to direct sunlight. Optional supporting brackets can be purchased separately for optimal angling.

If needed, use an extension cable to place the panel further away from your power source to reach optimal sunlight.

DOKIO XT60 EXTENSION CABLE **19.7 FT (6 M)**

⚠️ WARM TIPS: The product does not include 6M cable !



XT60 Extension cord(19.7FT)



An optional 19.7ft (6m) XT60 extension cable is available to allow for greater flexibility in positioning the solar panel in direct sunlight, away from the power station or battery.

OPERATING INSTRUCTIONS

Monitoring Power Output

You can monitor the power output of your solar panel using a multimeter or by checking the solar charge controller's display.

Learn how to test the power output of your DOKIO solar panel using a multimeter to ensure optimal performance.

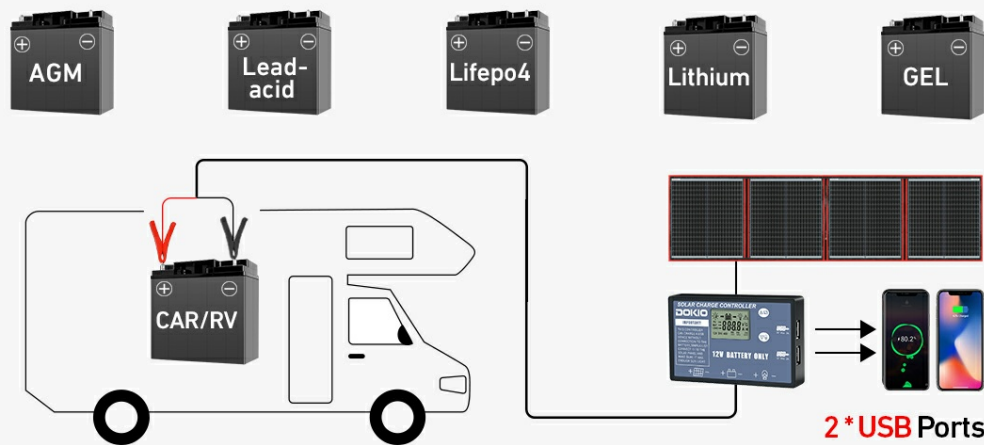
Understanding the Controller Display

The solar charge controller features an LCD display that shows various parameters:

- **Solar Panel Parameter (PV):** Displays the voltage and current generated by the solar panel.
- **Battery Parameter (BAT):** Shows the battery voltage, charging status, and battery type.
- **Load Parameter (LOAD):** Indicates the current drawn by connected loads.

- **Unit Symbol Value:** Displays units like V (Volts), A (Amperes), C (Celsius), AH (Ampere-hours).

FOR 12V BATTERIES



The solar charge controller's LCD displays real-time information including solar panel voltage, battery voltage, charging current, and load status.

Battery Type Selection

The controller supports different battery types. Ensure you select the correct type for your battery to prevent damage and ensure efficient charging.

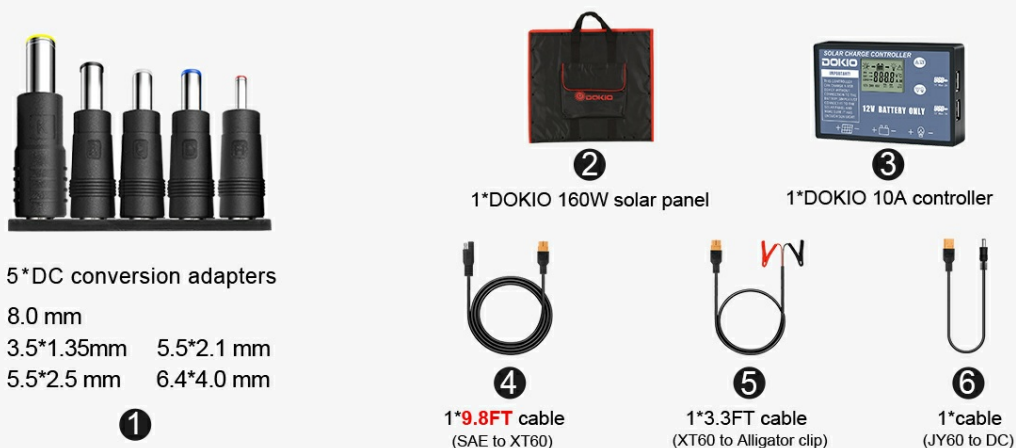
This video demonstrates how to select the correct battery type (AGM, LiFePo4, etc.) on the DOKIO solar charge controller for efficient charging.

MAINTENANCE

Cleaning and Care

Regular cleaning of the solar panel surface is crucial for maintaining optimal efficiency. Dust, dirt, and debris can reduce power output.

- Wipe the panel surface with a soft, damp cloth.
- Avoid using abrasive materials or harsh chemicals that could scratch or damage the panel.
- Ensure all connectors are clean and dry before making connections.

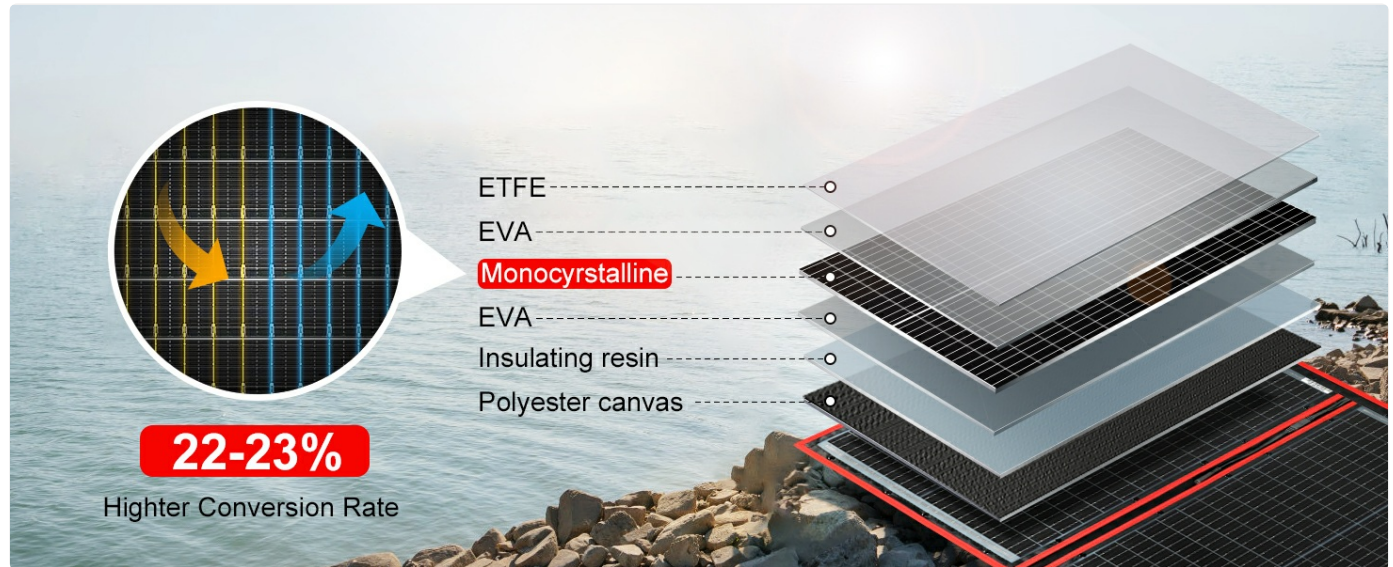


The solar panel's IP65 waterproof rating allows for easy cleaning with a damp cloth. Ensure connectors are dry before use.

Storage

When not in use, proper storage will prolong the lifespan of your solar panel.

- Fold the panel compactly and secure it with the integrated straps.
- Store the panel in its carrying bag to protect it from dust and physical damage.
- Keep the panel in a dry, cool place, away from direct sunlight when stored for extended periods.



When not in use, fold the solar panel compactly and store it in a dry, cool place. The integrated carrying bag protects it during transport.

TROUBLESHOOTING

Low Power Output

If your solar panel is not producing the expected power output, consider the following:

- **Shading:** Even partial shading can significantly reduce output. Ensure the entire panel is in direct sunlight.
- **Angle:** Adjust the panel's angle to be 90 degrees to the sun for maximum efficiency.
- **Dirt/Debris:** Clean the panel surface to remove any obstructions.
- **Power Station Limits:** Some power stations have input limits. Ensure your power station can accept the panel's full wattage.
- **Controller Issues:** Check the controller display for any error codes or unusual readings.

This video explains common reasons for low power output from your solar panel, such as shading, incorrect angling, or power station input limits.

Controller Issues

The solar charge controller is equipped with safety features to protect your system. If you encounter issues, check the following:

- **Overcharging:** The controller prevents overcharging by regulating voltage.
- **Overload:** If the connected load exceeds the controller's capacity, it may shut down. Reduce the load.
- **Short-Circuit:** The controller protects against short-circuits. Check all connections for proper insulation.
- **Incorrect Battery Type:** Ensure the correct battery type is selected on the controller.

FOR 95% SOLAR GENERATORS

8mm

5.5X2.1mm

XT60

3.5x1.35mm

5.5/6.4



Warm Tips : the solar panel output power is affected by the limit input power of different power station

The controller features built-in protections against overcharging, overload, and short-circuits. If issues persist, refer to the controller's display for error codes.

SPECIFICATIONS

Attribute	Value
Brand	DOKIO
Material	Polyester
Product Dimensions	20.9"L x 19.3"W x 1.1"H
Item Weight	9 Pounds
Efficiency	High Efficiency
Connector Type	SAE/XT60/DC/Alligator clip
Folded Size	19.3*20.9*1.1in
Included Components	cable (JY60 to DC), 160W solar panel, cable (XT60 to Alligator clip), 9.8FT cable (SAE to XT60), 10A controller
AC Adapter Current	8.89 Amps
Maximum Voltage	18 Volts
Maximum Power	160 Watts
UPC	682559949001
Manufacturer	DOKIO
Part Number	ffsp-160m
Item model number	ffsp-160m

Size	160w
Color	Red ,black
Style	Battery,Usb
Power Source	Battery Powered,Corded Electric
Voltage	18 Volts
Wattage	160 watts

WARRANTY AND SUPPORT

The DOKIO 160W Portable Solar Panel Kit comes with a **1-year warranty** from the manufacturer.

For detailed information, troubleshooting, or technical assistance, please refer to the official user manual PDF or contact DOKIO Solar US directly.

Official User Manual (PDF): [Download Here](#)

Seller: DOKIO Solar US

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Details

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

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