

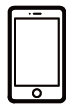


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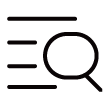
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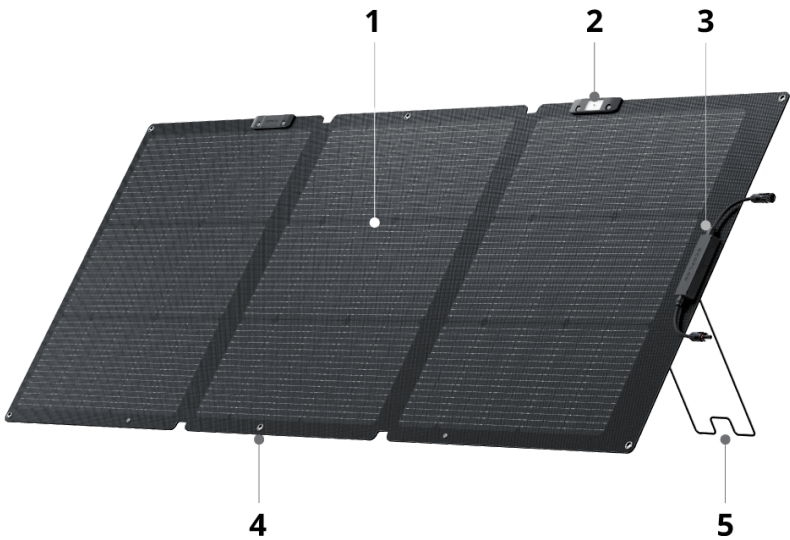


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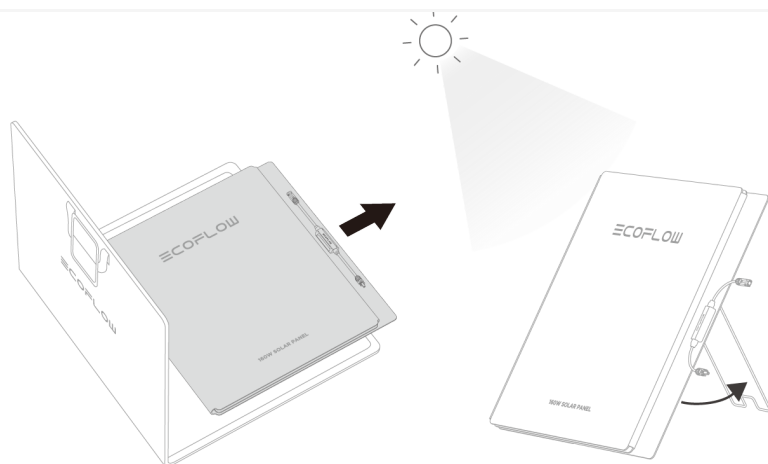
Descripción general



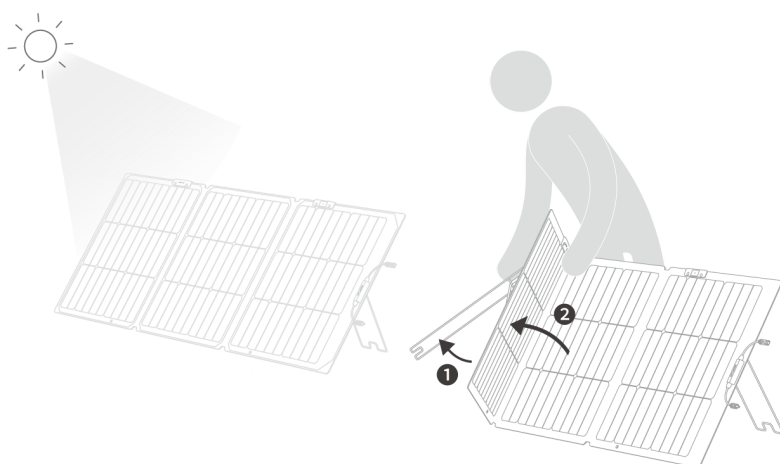
1	módulo fotovoltaico	conexiones. Coloque este lado orientado hacia el sol durante su uso. Se recomienda usar el panel en días soleados con abundante luz solar.
2	Guía del ángulo solar	Indica el ángulo entre la luz solar y el panel. Si la sombra del punto negro incide en el centro de la placa, se obtiene un ángulo de 90°.
3	Caja de conexiones	Incluye un cable de salida solar (1,5 m de longitud). Preste atención a las etiquetas de positivo y negativo al conectarlo.
4	Agujeros preestablecidos	El panel cuenta con orificios preajustados con un diámetro interior de 8 mm. Puede colgarlo con bridas o ganchos.
5	Soporte	Contiene correas elásticas que facilitan el ajuste del ángulo del panel.

Empezar

Coloque el panel solar en posición horizontal y sáquelo de la caja. Coloque la

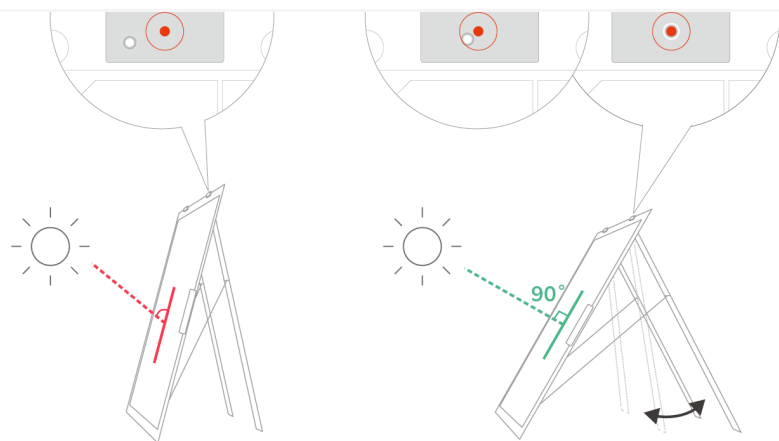


Como se muestra en la imagen, se recomienda desplegar primero el soporte antes de desplegar el panel.



Se recomienda pararse detrás del panel al desplegarlo para ahorrar esfuerzo.

Verifique la sombra del punto en la guía del ángulo solar para ajustar los soportes y deje que la sombra llegue lo más cerca posible del centro.



Consejos

- No deje que la sombra se aleje del círculo rojo de la guía de ángulos. De lo contrario, la potencia de salida disminuirá.
- Cuando la sombra del punto toca el centro, se obtiene un ángulo de 90° y la mayor potencia de salida.

Alimenta tus dispositivos

Prerrequisitos

Puede conectar el panel a una central eléctrica portátil EcoFlow para almacenar energía o a un dispositivo inteligente EcoFlow para alimentar el dispositivo directamente.

Al usar el panel con sus dispositivos, asegúrese de que los **parámetros de salida máximos**¹ del panel se encuentren dentro del rango de entrada de los dispositivos. De lo contrario, sus dispositivos

admita la entrada de energía solar y de que sus puertos de salida y parámetros eléctricos cumplan con los requisitos del panel.

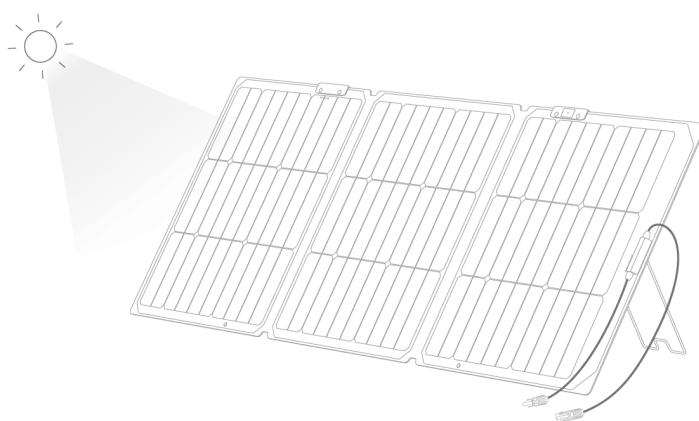
Parámetros de salida máximos¹

Se refieren al voltaje de circuito abierto y a la corriente de cortocircuito del panel.

Cómo conectarse

Una vez instalado el panel, conecte el cable de salida a los conectores del **cable de carga solar a XT60i¹** . Para ello, **conecte los conectores macho a los hembra²** .

Conecte el otro extremo del cable de carga al **puerto de entrada solar (XT60)³** del dispositivo para completar la conexión. Si el puerto no es XT60, consulte el manual de usuario del dispositivo para obtener instrucciones de conexión.



Solar to XT60i charging cable¹

Use the charging cable included in the

Connect male connectors to female ones²

Do not connect the output connectors of a panel to each other. Otherwise, short circuits will occur.

Solar input port (XT60)³

Make sure the cables were connected firmly before use to avoid port melting caused by bad connection.

If the panel is connected to an EcoFlow device, you can check real-time output data on the screen of the device or on the device's homepage of EcoFlow app.

Maximize Power Output

Find an Ideal Environment

Use the panel on sunny or mostly sunny days

On a sunny noon, sunlight is strong and the panel yields more power. On cloudy or rainy days, sunlight is weak and the panel's output decreases as a result.

Keep the panel free from shading, dust, leaves, droppings, or other debris. Otherwise, the panel's power output will decrease dramatically.

Ensure a 90° tilt angle

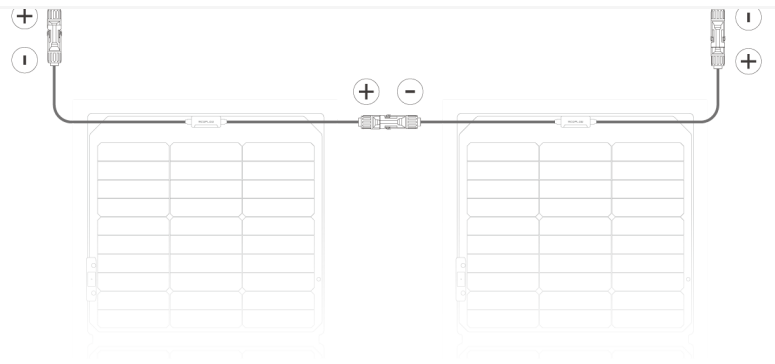
The direction of sun rays changes throughout the day. It's recommended to check the dot shadow on the solar angle guide from time to time and make sure it remains in the middle.

Wire Your Panels

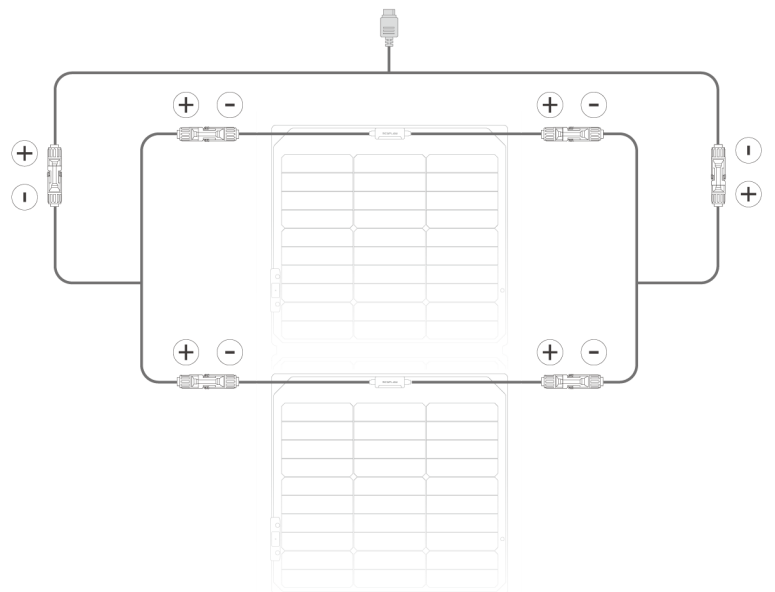
You can wire panels in series or in parallel to get higher output. When wiring, pay attention to the electrical parameters of your solar array and make sure that the parameters meet the requirements of the device that the panels will be connected to. Generally speaking, it's recommended to wire solar panels in series for connecting with a portable power station.

How to Connect

To wire **in series**, connect the male connector of the first panel to the female connector of the next, and so on. Then, connect the [solar to XT60i charging cable](#) with the output cables of the first and the last panels. If the cables fall short, you can use [solar extension cables](#) for extra distances.



To wire **in parallel**, connect all positive ends of the panels' output cables to a [solar parallel connection cable](#), and do the same for the negative ends. Then, connect the [solar to XT60i charging cable](#) to the solar parallel connection cables. When connecting, refer to the instruction images to avoid misconnecting the male and female connectors of the parallel connection cables.

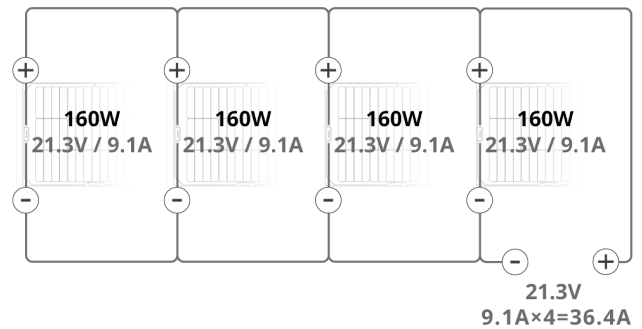
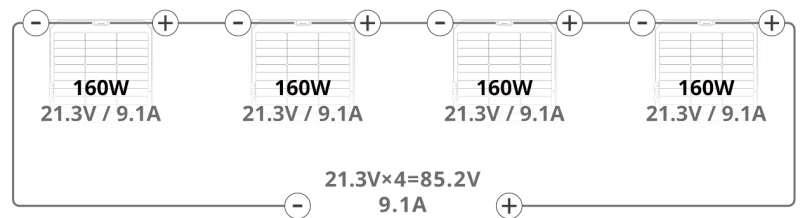


Resulting Array Parameters

- Wiring solar panels of same ratings

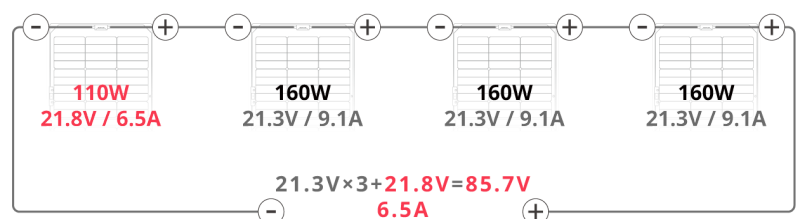
	In Series	In Parallel
Total Voltage	Adds up	Same as single panel

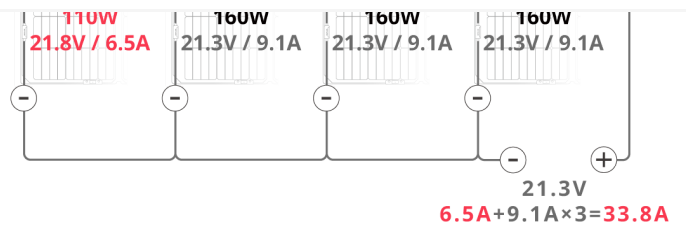
Total	Same as single	Adds up
Current	panel	
Total Power	Adds up	Adds up



- Wiring solar panels of different ratings

	In Series	In Parallel
Total Voltage	Adds up	Same as the lowest value of the panels
Total Current	Same as the lowest value of the panels	Adds up
Total Power	Equals the lowest current times total voltage	Equals total current times the lowest voltage





Determine Wiring Plan

Take the following factors into consideration when determining whether to wire in series or in parallel.

Needed effort

- Series connection is simple and allows you to keep the total current at a relatively low level so that it will fall within the solar input range of the connected device.
- Parallel connection needs more effort and results in a higher total current, which, in turn, demands higher ratings for the solar cables and for the solar input of the connected device.。

Solar port ratings of connected device

The total voltage and the total current of the solar array should fall within the device's solar input range. When making your wiring plan, refer to the open circuit voltage and the short circuit current of the panels to calculate the total voltage and the total current.

Distance between panels and connected device

Long distances between panels and the device arouse needs for longer cables.

As a result, the cost of cables increases. In this case, series connection is more economical.

Stability of solar array

For series connection, if one of the panels is shaded or damaged, the total output decreases noticeably. As for parallel connection, shaded or damaged panels barely influence the performance of other panels.

Storage and Maintenance

Storage

- If the panel is not in use, it's recommended to disconnect the panel, fold it, and put it away.
- For long-term storage, tie the output cable to avoid any contact with the photovoltaic module, and then fold the panel and put it back in the case.

Cleaning

- Make sure the panel is not connected to portable power stations or other loads, and that the panel's surfaces have cooled to room temperature. Then, wet a soft rag with clean water, twist dry the rag, and clean the panel's surfaces with it. Avoid wiping or washing the photovoltaic connectors when cleaning.

FAQ

1. Is the panel waterproof?

The panel has an IP68 rating. If the panel gets wet in the rain or falls into water by accident, check if water has got into the connectors immediately. If yes, dry the connectors with rags and the panel will function properly. However, pay attention not to soak the panel in water.

2. Why isn't my panel generating power?

Make sure the connection is correct, the terminals are tight, and the environmental conditions, including sunlight, are ideal for solar power generation. If the panel still generates no power after you exclude the factors above, contact EcoFlow's official customer service for help.

3. Can portable solar panels generate power with weak light, like on rainy days or under indoor lighting?

Portable solar panels barely generate power under such circumstances as they are made of monocrystalline cells, whose performance is restricted by weak light.

4. Is the panel compatible with all EcoFlow portable power stations?

It depends on the electrical parameters of the panel and the solar input parameters of the power station.

What's in the Box



-
1. Storage case
 2. EcoFlow 160W Portable Solar Panel
 3. Solar to XT60i charging cable (2.5 m)
 4. Quick Start Guide, Safety Instructions, Warranty Card
-

Accessories

[View More →](#)

Specifications

Parameters

Model	EF-Fold-P160-04
Rated Power	160W (±5W)
Open Circuit Voltage	21.3V
Short Circuit Current	9.1A

Optimal Operating Voltage	18.6V
Optimal Operating Current	8.6A
Recommended Ambient Temperature	-20°C to 85°C
Efficiency	25%
Temperature Coefficient of Rated Power	-(0.30±0.02)%/°C
Temperature Coefficient of Open Circuit Voltage	-(0.25±0.03)%/°C
Temperature Coefficient of Short Circuit Current	+(0.04±0.015)%/°C

Dimensions

Weight	Approx. 5.6 kg (12.3 lbs)
Unfolded Dimensions (W×L×H)	600×1610×25 mm (23.6 × 63.4 × 1.0 in)
Folded Dimensions (W×L×H)	600×572×32 mm (23.6 × 22.5 × 1.3 in)

Battery Specifications

Cell Type	TOPCon monocrystalline silicon
Connector Type	Photovoltaic connectors (adapted to MC4 connectors)

- Standard Test Conditions: 1000W/m² (92.9W/ft²), AM1.5, 25°C (77°F)

current will vary.

Safety Instructions

Disclaimer

Please read the product document and ensure that you understand it fully before using the product. After reading this document, keep it for future reference. Improper use of this product may cause serious injury to yourself or others, or cause product damage and property loss. Once you use this product, it is deemed that you understand, approve and accept all the terms and content in this document. EcoFlow is not liable for any loss caused by the user's failure to use the product in compliance with the product document.

In compliance with laws and regulations, EcoFlow reserves the right to the final interpretation of this document and all documents related to the product. This document is subject to changes (updates, revisions, or termination) without prior notice. Please visit EcoFlow's official website to obtain the latest product information:

<https://www.ecoflow.com/>.

Safety Guidelines

1. Do not wet the product, or leave it in a humid environment for an extended period of time. Do not allow the junction box or wire connectors to come into contact with liquids.
2. Do not expose any component of the product to highly corrosive materials such as corrosive

flammable or explosive materials.

4. Do not poke or puncture the solar panel with sharp or pointed tools, or wipe the surface of the solar panel with hard materials such as sandpaper.
5. Do not knock, squeeze or bend the solar panel. It is recommended to place this product upright during transportation or storage.
6. Do not place heavy objects on the solar panel to avoid damage when using the product.
7. Should you wish to store the product for an extended period of time, please tie the positive and negative wires of the solar panel properly to avoid any contact with the sun-facing side of the solar panel.
8. No desmonte ningún componente del producto usted mismo, ya que esto anulará la garantía.
9. Al utilizar este producto para cargar una fuente de almacenamiento de energía, asegúrese de que cumpla con los requisitos de parámetros y especificaciones. Si conecta varios paneles solares en serie o en paralelo, verifique previamente el número máximo de paneles solares que se pueden conectar a la fuente de energía.
10. Al conectar este producto en serie o en paralelo, se recomienda adquirir los cables de conexión a través de los canales de venta oficiales de EcoFlow. Si utiliza un cable para panel solar de otro fabricante, asegúrese de que el conector, el voltaje y la corriente del cable sean compatibles.
11. No enchufe ni desenchufe ningún cable de conexión mientras el panel solar esté en funcionamiento.
12. No use ningún accesorio metálico al enchufar o desenchufar el panel solar.
13. No aplique ningún producto químico (como pintura o adhesivos) en el lado del panel solar

la luz solar sobre el panel solar.

15. Mantenga este producto fuera del alcance de los niños y las mascotas.
16. No deseche los paneles solares desechados a su antojo, siga las leyes y regulaciones locales para su eliminación.
17. Asegúrese de que los cables estén conectados firmemente antes de usar para evitar que el puerto se derrita debido a una mala conexión.