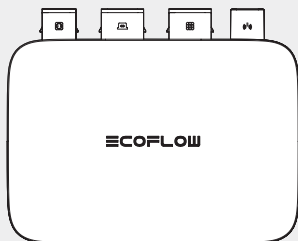


≡COFLOW

# USER MANUAL

V1.3

EcoFlow PowerStream Microinverter



# 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/>.



Hereby, EcoFlow Inc. declares that EcoFlow PowerStream Microinverter is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet addresses:

<http://www.ecoflow.com/eu/eu-compliance>

<http://www.ecoflow.com/de/eu-compliance>

<http://www.ecoflow.com/fr/eu-compliance>



Hereby, EcoFlow Inc. declares that EcoFlow PowerStream Microinverter is in compliance with Radio Equipment Regulations 2017. The full text of the UKCA declaration of conformity is available at the following internet address:

<http://www.ecoflow.com/uk/eu-compliance>



This marking indicates that this product should not be disposed of with other household waste within the EU. Recycle this product properly to prevent possible damage to the environment or a risk to human health via uncontrolled waste disposal and in order to promote the sustainable reuse of material resources. Please return your used product to an appropriate collection point or contact the retailer where you purchased this product. Your retailer will accept used products and return them to an environmentally-sound recycling facility.



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# Safety Instruction

## General

1. Please carefully read the documents before installing, operating or maintaining the equipment. The documents are subject to change due to product updates or other reasons.
2. Do not put heavy objects on the equipment.
3. Ensure that all cables and connectors are intact and dry before connecting to prevent electric shocks.
4. Use insulation tools or wear personal protective equipment when you install or operate the equipment.
5. Do not install or operate the equipment in extreme weather events such as lightning, snow, heavy rain, strong wind and so on.
6. Do not damage, smear or rip off any warning labels on the equipment.
7. Do not hit, pull, drag, squeeze or step on the equipment, or throw it into the fire, as there is risk of explosion.
8. After installing, please clean the remains of the installation, such as boxes, clipped cable ties, ripped insulation materials, etc.
9. Do not modify or repair the equipment, please contact our customer service or qualified personnel if necessary.
10. Use tools and the equipment correctly to prevent personal injuries and product damage.
11. Understand the components and function of the grid-tied PV power system. Make sure that all electrical connections, and voltage and frequency at the connection point meet the local microinverter grid-tied requirements.
12. Make sure the screws are tightened to the specified torque during installation (M5x12: 30 Kgf\*cm; ST5x25: 45 Kgf\*cm; M6x20: 90 Kgf\*cm).
13. If you only connect solar panels and the battery with the microinverter without plugging into the AC outlet, the microinverter shall be grounded.
14. It is strongly recommended to install an overcurrent circuit breaker between the equipment and the grid.
15. The equipment may get more than 70 °C (158 °F) while in use. Do not touch its enclosure before it cools down. Also, always keep the equipment out of reach of children and pets.
16. The installation location should be convenient for you to pull out the connectors.
17. Before you pull out the AC (or battery) connector from the microinverter, disconnect the cable from the AC socket (or battery's) end.
18. Make sure the portable power station is off

during the whole connection process.

19. You can only connect solar panels to the PV port and only connect an EcoFlow portable power station to the battery port.







## Environment requirements

1. Make sure the equipment is installed, operated or stored in a well ventilated place.
2. Do not install or operate the equipment near flammable, explosive, corrosive, caustic or moist sources.

3. Do not expose the equipment to strong electromagnetic fields to avoid radio interference.

## Explanation of Symbols






### Symbols on the documentation

| Symbol  | Explanation  |
|---|--|
|  | A hazard with a high level of risk which, if not avoided, will result in death or serious injury.              |
|  | A hazard with a low level of risk which, if not avoided, will result in minor injury, or damage to the device. |
|  | Important information that you need to pay attention to.   |
|  | Indicates additional information on correct use or useful tips.  |
|  | In a basic set   |
|  | Optional (not in the box)  |

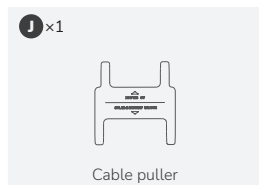
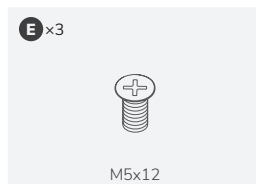
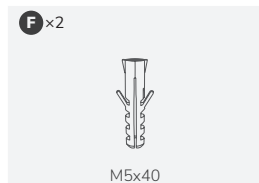
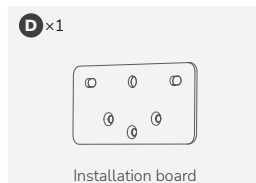
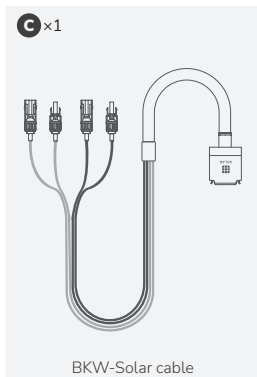
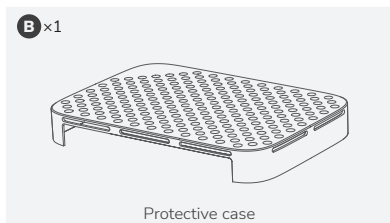
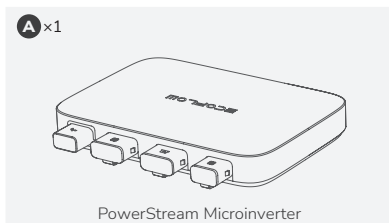
### Symbols on the device



- Do not damage, smear or cover any warning labels on the device. All labels must be visible after installation.

| Symbol  | Explanation   |
|---|---|
|    | Refer to the operation instructions                             |
|    | Caution, hot surface  |
|  | Caution, risk of danger   |
|  | Caution, risk of electric shock; energy storage timed discharge |
|  | The position for connecting the protection ground cable         |
| <b>IP67</b>   | Ingress Protection rating                                       |

# What's in the Box



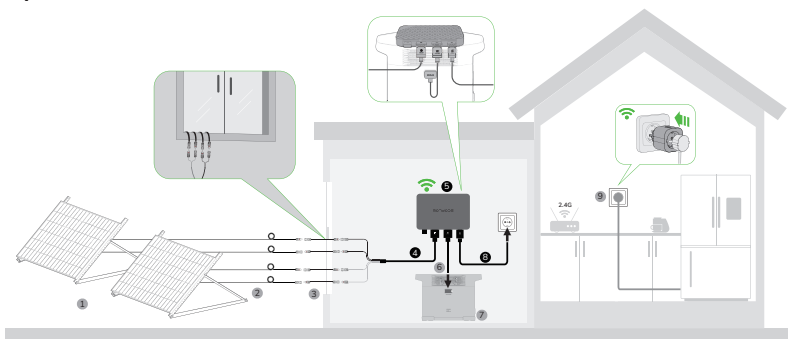
|                |  |
|----------------|--|
| <b>D E F G</b> | Used for mounting the microinverter on the wall. See "Mount on the wall" for details.                      |
| <b>D F H I</b> | Used for mounting the microinverter on the bracket. See "Mount on the bracket" for details.                |
| <b>J</b>       | Used for disconnection, located at the bottom of the protective case. See "Unplug the Cables" for details. |



- The images of the product and components may differ from the actual product.
- If there are missing or defective components, please contact EcoFlow customer service.

# Overview

## System overview

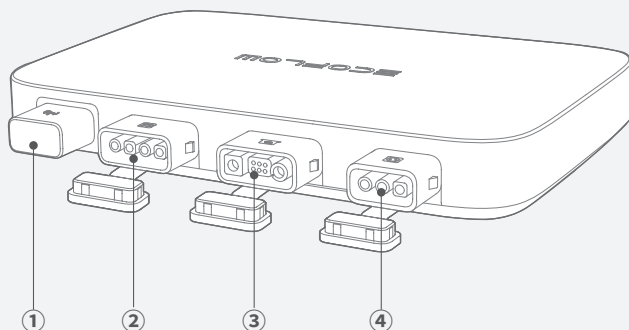


| No. | Name                           | Description   | In a basic set / Optional (not in the box) |
|-----|--------------------------------|---|--|
| 1   | Solar panel                    | Up to two groups of solar panels can be connected to one microinverter.   |  |
| 2   | Extension cable                | Used for extending the connection between the microinverter and the solar panel.  |  |
| 3   | EcoFlow super flat cable       | Used for passing through a window or a door.  |  |
| 4   | EcoFlow BKW-Solar cable        | Used for the connection between the microinverter and the solar panel.  |  |
| 5   | PowerStream Microinverter      | /   |  |
| 6   | Battery connection cable       | Used for the connection between the microinverter and the EcoFlow portable power station. 4 types: BKW-DELTA EB cable, BKW-DELTA PRO cable, BKW-RIVER cable, BKW-Smart Battery Cable. |  |
| 7   | EcoFlow portable power station | Used for power storage.   |  |
| 8   | EcoFlow BKW-AC cable           | Used for connection of the microinverter to the power grid.   |  |
| 9   | EcoFlow Smart Plug             | Used for monitoring the power of appliances and for wireless communication with the microinverter to optimize the energy usage.   |  |

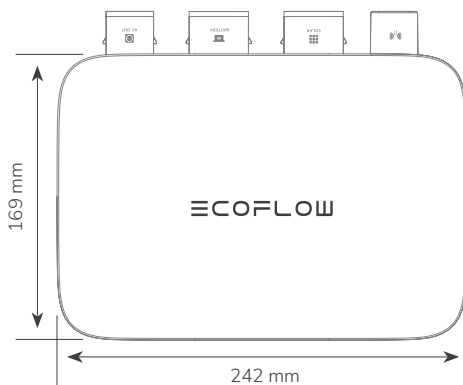


- You can purchase optional accessories from the official EcoFlow website.

## Product overview

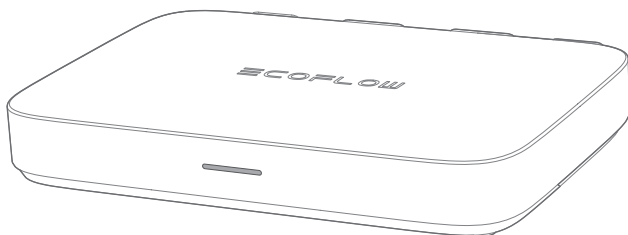


|   |                        |   |
|---|------------------------|---|
| ① | Antenna                | Works with the EcoFlow app and Smart Plugs      |
| ② | PV port                | Connects with solar panels                      |
| ③ | Battery port / DC port | Connects with an EcoFlow portable power station |
| ④ | AC output port         | Connects to the power grid                      |





## LED indication



| LED indicator | Color  | Status    | Feeding electricity (power grid) | Feeding electricity (Smart Plug)  | Detailed explanation   |
|---------------|--------|-----------|----------------------------------|---|--|
|               | Green  | Breathing | ☑                                | ☑   | There is power input and AC output. Electricity is fed to Smart Plug(s) for use by appliances. |
|               |        | Solid     | ☑                                | ☒   | There is power input and AC output, but no electricity is fed to Smart Plug(s).                |
|               | White  | Solid     | Power on                         | There is PV input or/and the power station discharges (DC input), without any power output. |  |
|               |        | Breathing | Charging                         | There is PV input and the power station is charged (DC output), without AC out.             |  |
|               | Purple | Blinking  | Updating                         | Updating the firmware.  |  |
|               | Blue   | Blinking  | Pairing                          | Pairing with EcoFlow app.   |  |
|               | Yellow | Solid     | Warning                          | See "Troubleshooting" for details.  |  |
|               | Red    | Solid     | Error                            | See "Troubleshooting" for details.  |  |

# Assembly

## Pre-assembly

### NOTICE

- This user manual only provides the cable connection method and the mounting method for the microinverter. For installing the solar panel, please refer to the instructions for the solar panel and its accessories.
- If you wish to verify the solar system, complete the assembly on a sunny day.

### Select a location for the PowerStream Microinverter

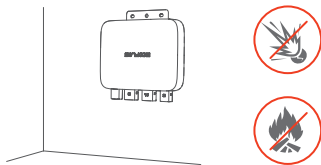
Make sure that the microinverter is within the Wi-Fi coverage.



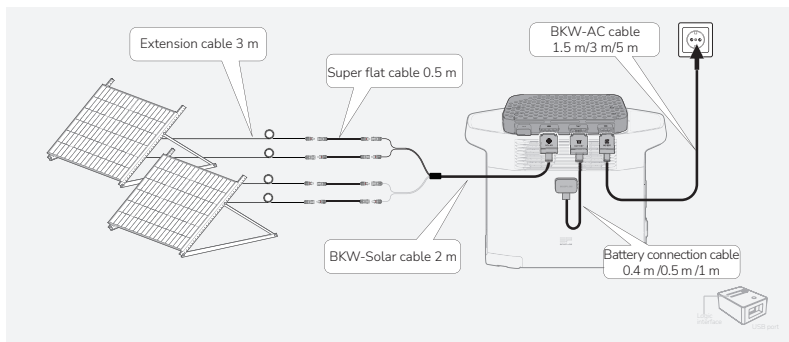
The IP rating of the microinverter is IP 67, hence, it can be installed either indoors or outdoors. However, the EcoFlow portable power station is not waterproof. If your system includes a portable power station, keep both of them indoors.



Do not place or install the microinverter in an area where flammable or explosive materials are stored.



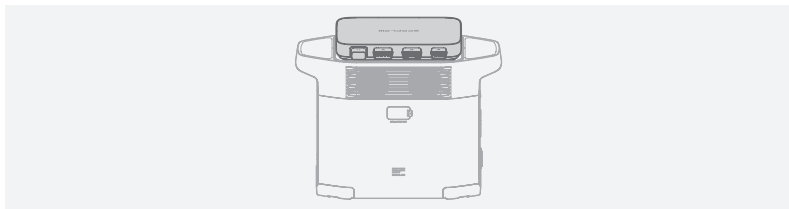
## Measure the distance



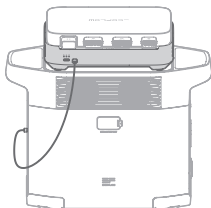
- The lengths of cables vary in different countries or regions. Please refer to the actual products.
- Except for the standard BKW-Solar cable and the BKW-AC cable, other cables need to be purchased from the official website.

## Assembly procedure

Place the microinverter on the EcoFlow portable power station.



- If you need to mount the microinverter, please refer to "Mounting the Microinverter".
- To cool the microinverter to optimal temperature, you can install the EcoFlow Smart Cooling Deck (sold separately), as the figure shown below.



## Connect with solar panels

You can connect solar panels to the microinverter, but you can also connect them to some models of portable power stations with the "Solar Dualcharge" feature, allowing the system to receive more solar energy and the power station to be fully charged more quickly.

### NOTICE

- After the solar panels capture solar radiation, they provide direct current to the microinverter. At this time, the LED indicator will light up white.
- Update your PowerStream firmware to V1.0.0.173 or above for "Solar Dualcharge".
- Portable power stations supports "Solar Dualcharge" (firmware should be up to date): EcoFlow DELTA 2 series, EcoFlow DELTA Max series, EcoFlow DELTA Pro, BKW-Smart Battery



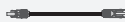
**C** x1

BKW-Solar cable



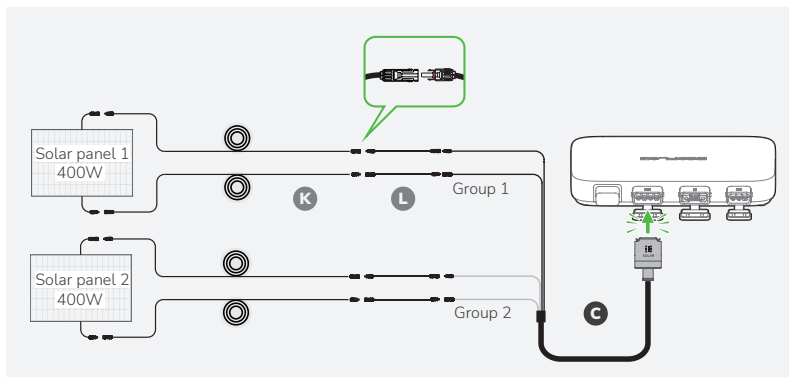
**K** x4

Extension cable



**L** x4

Super flat cable



- A BKW-Solar cable includes 2 groups of connectors, which can connect with 2 groups of solar panels.
- If you connect several solar panels in series or in parallel as a group, refer to "Connecting several solar panels in series or in parallel".
- If you connect the EcoFlow RIVER-series portable power station to the DC port of the microinverter, it is recommended to connect solar panels to the power station, otherwise, the energy will not be stored.

For the connection, refer to the user manual of the power station. [Download user manuals here.](#)

## | Connect with the EcoFlow portable power station

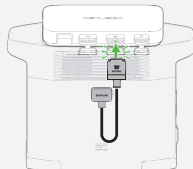
There are 4 types of battery connection cables for different EcoFlow portable power stations, as shown in the figures below.

### NOTICE

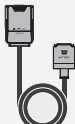
- Make sure the portable power station is off during the whole connection process.
- If you use the BKW-RIVER cable for the EcoFlow RIVER-series portable power station, the power station only discharges but not be charged.



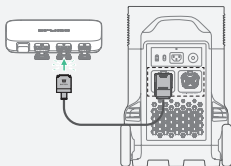
BKW-DELTA EB cable



EcoFlow DELTA 2 series and DELTA Max series



BKW-DELTA PRO cable



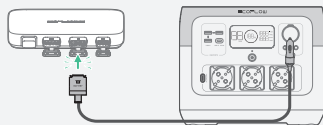
EcoFlow DELTA Pro series



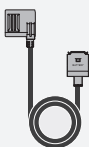
EcoFlow 2kWh LFP Battery



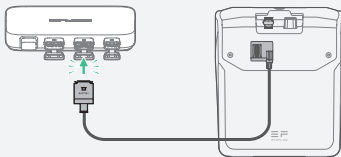
BKW-RIVER cable



RIVER series, DELTA mini, and DELTA 1300



BKW-Smart Battery Cable

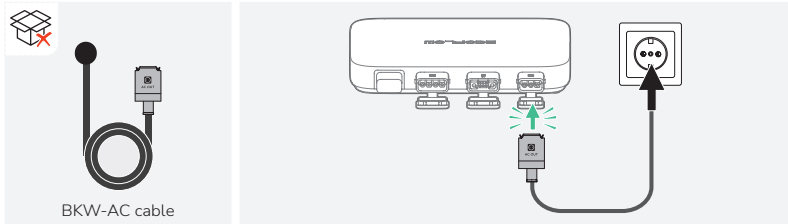


BKW-Smart Battery

## Connect to the power grid

### NOTICE

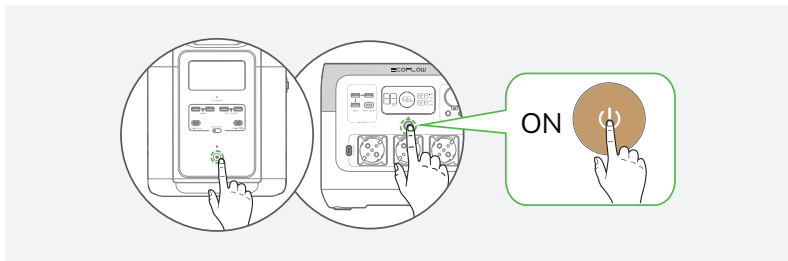
- Please confirm that the AC socket is switched on, and the power grid is being powered.
- Due to local regulations, if you need to use the BKW-AC open end cable for grid connection by an electrician, refer to the "Use the BKW-AC open end cable for connecting to the grid".



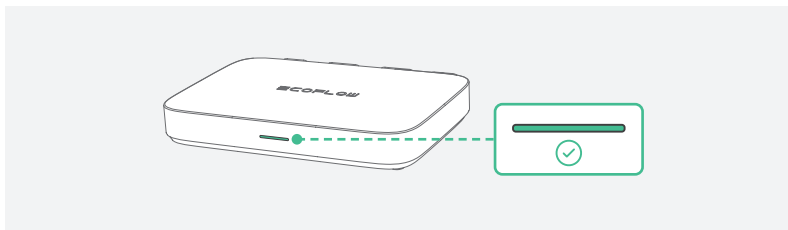
## Turn on the EcoFlow portable power station

### NOTICE

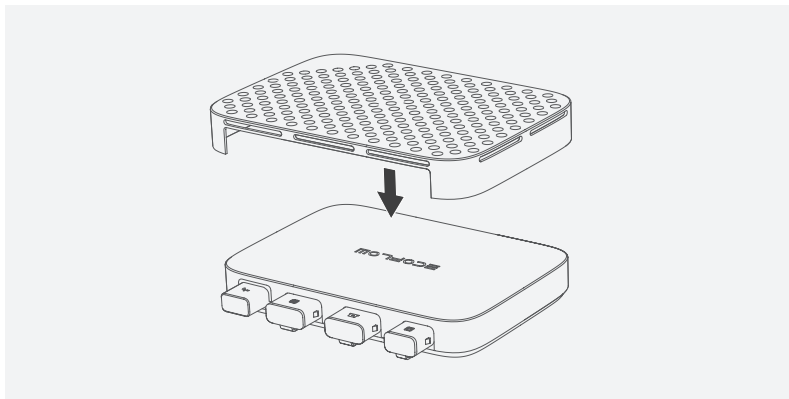
- If your PowerStream balcony solar system does not include a portable power station, skip this step.



After completing the connection, the LED indicator will light up green when the solar panel captures solar radiation and the microinverter outputs AC.



It is highly recommended to install the protective case on the top of the microinverter to protect you from high temperature burns. The protective case is in the box.



- If you use the EcoFlow 2kWh LFP Battery, please update the firmware of PowerStream and the battery after turning it on. The update package of the battery is included in that of PowerStream.  
How to update: Download the EcoFlow app and connect with the microinverter, then On the page of your PowerStream system in the app, tap **Settings** > **Firmware** > **Update**.

## Connecting several solar panels in series or in parallel

### NOTICE

- If you connect several solar panels in series or in parallel as a group, make sure that the maximum operating voltage ( $V_m$ ) and maximum operating current ( $I_m$ ) of each group do not exceed the maximum input voltage (55V) and maximum output current (13A) of the microinverter PV input.
- The maximum operating voltage ( $V_m$ ) and maximum operating current ( $I_m$ ) of solar panels must be consistent respectively.

### | Solar panels in series



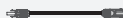
**C** ×1

BKW-Solar cable



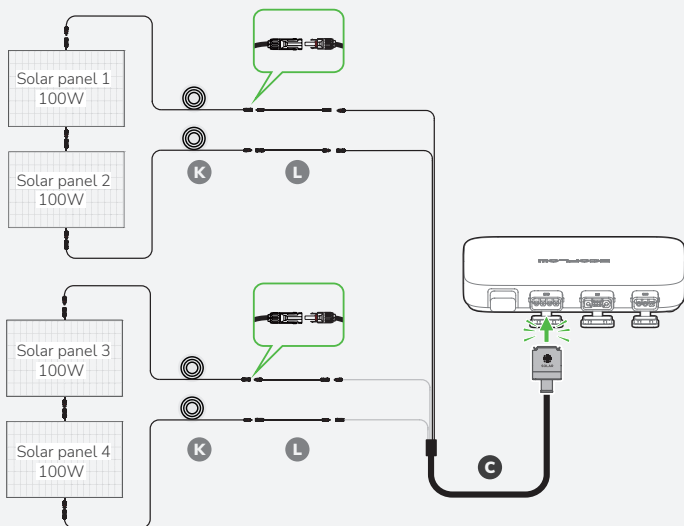
**K** ×4

Extension cable



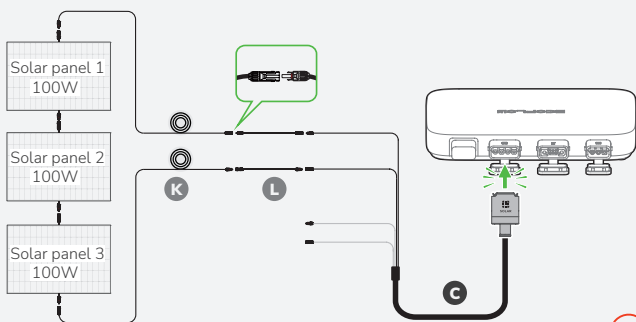
**L** ×4

Super flat cable



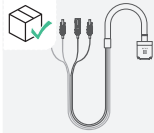
$V_m(\text{solar panel 1}) + V_m(\text{solar panel 2}) < 55V$

$V_m(\text{solar panel 3}) + V_m(\text{solar panel 4}) < 55V$





## Solar panels in both series and parallel



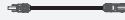
**C** × 1

BKW-Solar cable



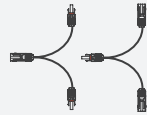
**K** × 4

Extension cable



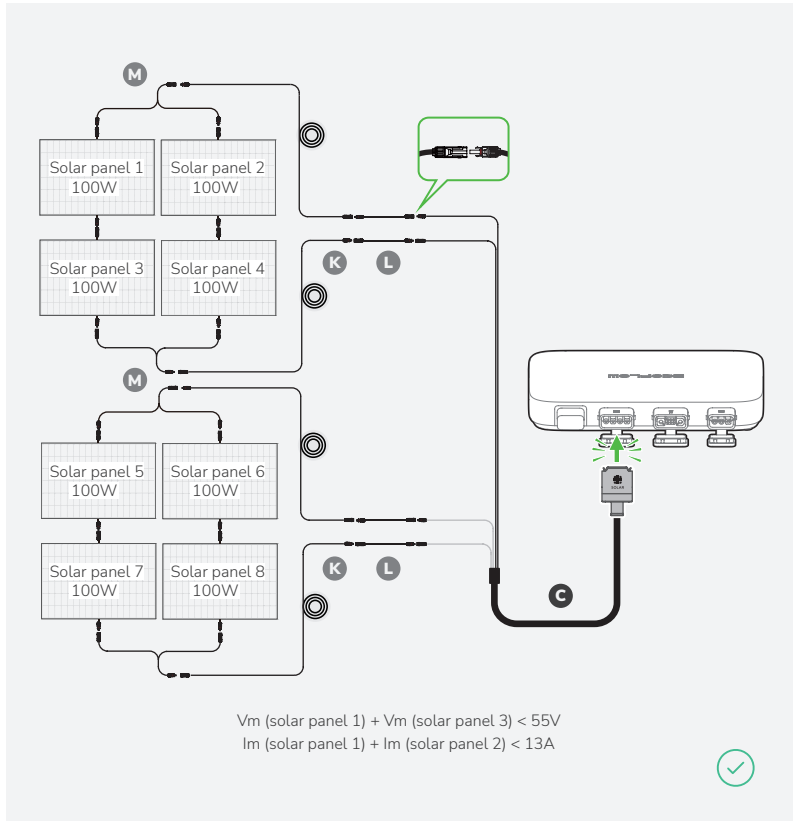
**L** × 4

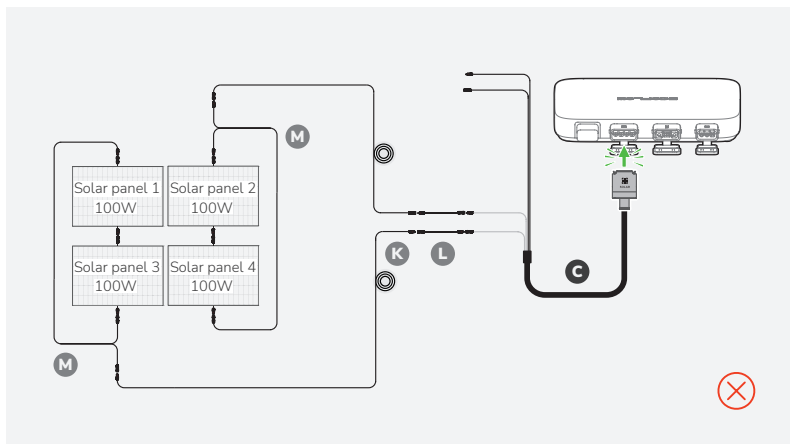
Super flat cable



**M** × 2

Solar parallel  
connection cable





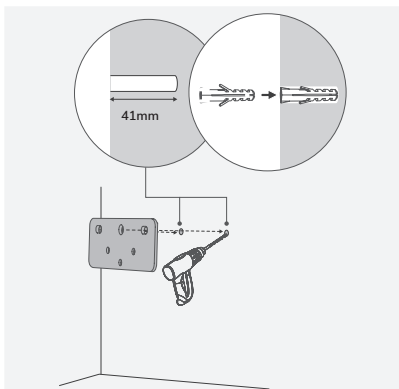
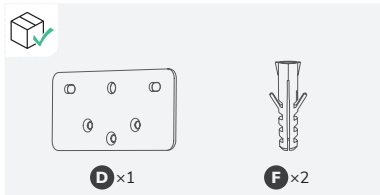
## Mounting the microinverter

### **⚠ DANGER**

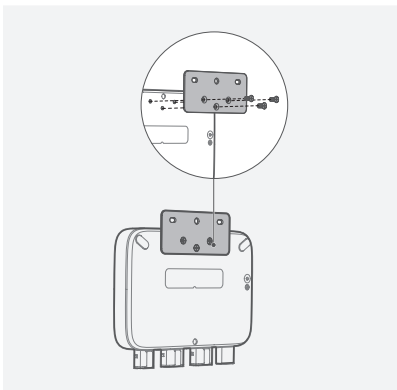
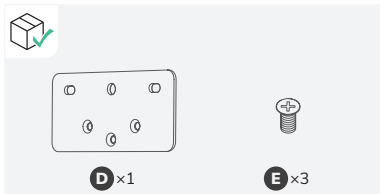
- Wear protective goggles or gloves when drilling holes.

### | Mount on the wall

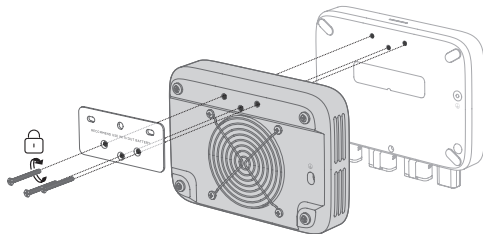
1. Use the installation board to locate the hole and drill two holes about 41 mm deep in the wall. Then, insert M5x40 into the holes.



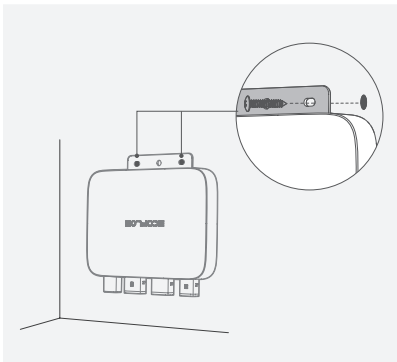
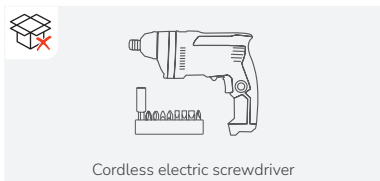
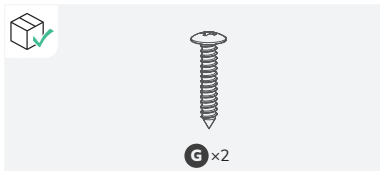
2. Install M5x12 in the corresponding positions on back of the microinverter.



- To cool the microinverter to optimal temperature, you can install the EcoFlow Smart Cooling Deck (sold separately), as the figure shown below.

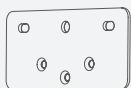


3. Insert ST5.5x25 into M5x40 through holes of the board.



## Mount on the bracket

1. Install M5x12 in the corresponding positions on back of the microinverter.



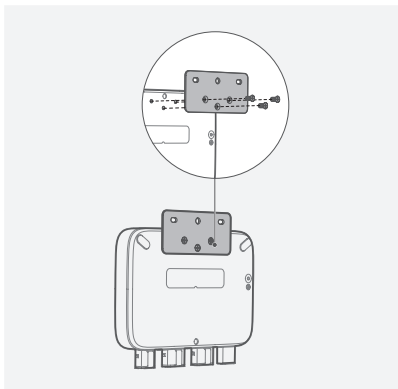
**D** ×1



**E** ×3



Cordless electric screwdriver



2. Install two M6x20 in two holes of the installation board, and tighten M6 nuts on them.

### CAUTION

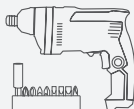
- Please install vertically  $\leq 15^\circ$  for stability and safety.



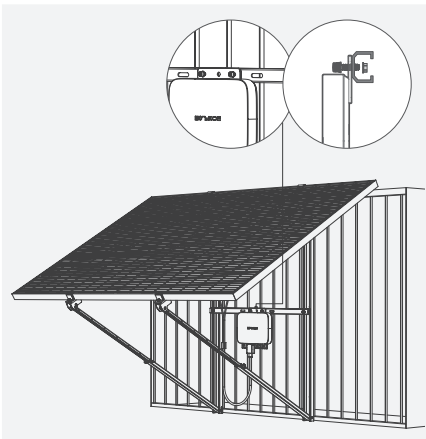
**H** ×2



**I** ×2



Cordless electric screwdriver



## Grounding considerations

There is an earth wire inside the supplied BKW-AC cable, so grounding can be done directly by using this BKW-AC cable.

If you need to add an additional grounding conductor:

Tools and components (not provided): an M4x6 screw, a grounding wire (cross-section  $\geq 4$  mm<sup>2</sup>) with a connection tool, safety gloves and a drill.

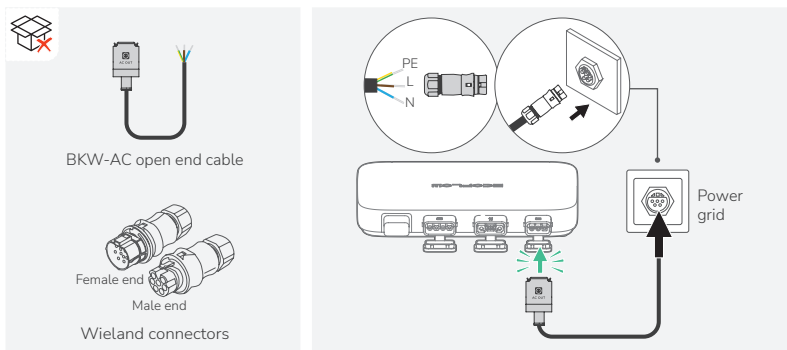
1. Find the grounding terminal on the bottom of the microinverter.
2. Insert M4\*6 into the grounding terminal through the connection tool of the grounding cable.

## Use the BKW-AC open end cable for connecting to the grid

If your socket at home is of Wieland specifications, or due to local regulations, you need to use the BKW-AC open end cable for connecting to the power grid.

### DANGER

- Only qualified personnel should carry out the connection of the AC voltage side with the BKW-AC open end cable.
- Risk of electric shock. De-energize the AC branch circuit breaker before servicing.
- Wear proper personal protective equipment before any operations.
- Follow the installation requirements defined for your country or region.
- "L", "N", and "PE" are marked on the BKW-AC open end cable, so connect them correspondingly.



- Refer to the instructions of the Wieland connectors for details.
- You can also connect the microinverter to the distribution panel directly. See the wiring diagram below. The conductors of the final circuit shall meet the following requirement:

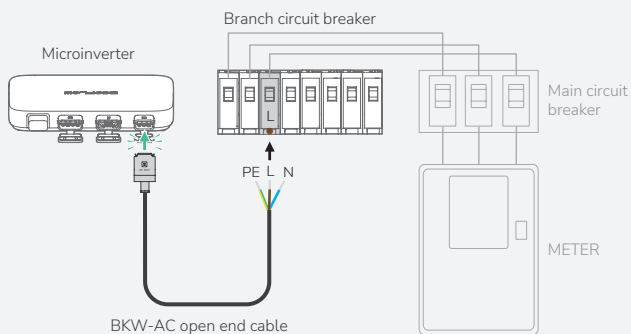
$$I_z \geq I_n + I_g$$

where:

$I_z$  is the current-carrying capacity of the final circuit conductors

$I_n$  is the rated current of the protective device of the final circuit

$I_g$  is the rated output current of the generating set



"L" wire connects to a branch circuit breaker

"N" wire connects to the neutral port block

"PE" wire connects to ground

# EcoFlow App

## NOTICE

- The figures are for reference only, please refer to the actual app interface.

Control, monitor, and customize your EcoFlow PowerStream microinverter from afar with the EcoFlow app.

Download at: <https://download.ecoflow.com/app>

## Privacy policy

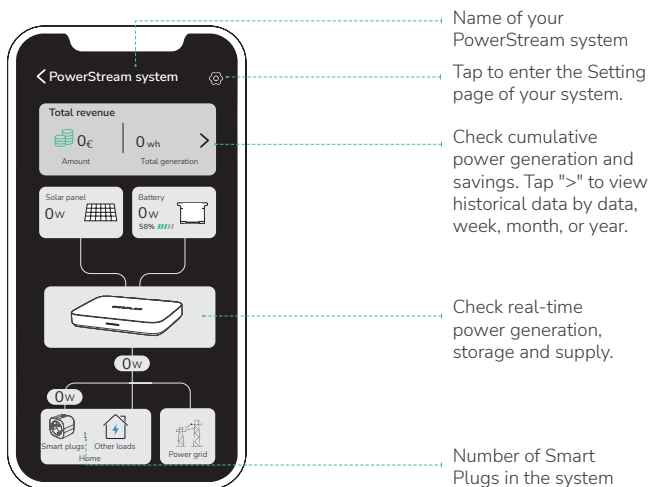
By using EcoFlow Products, Applications, and Services, you consent to the EcoFlow Term of Use and Privacy Policy, which you can access via the "About" section of the "User" page on the EcoFlow App or on the official EcoFlow website at

<https://www.ecoflow.com/policy/terms-of-use> and

<https://www.ecoflow.com/policy/privacy-policy>




## Page of your PowerStream balcony solar system



## Setting the power supply mode

### NOTICE

- This feature can be enabled when the portable power station is connected.

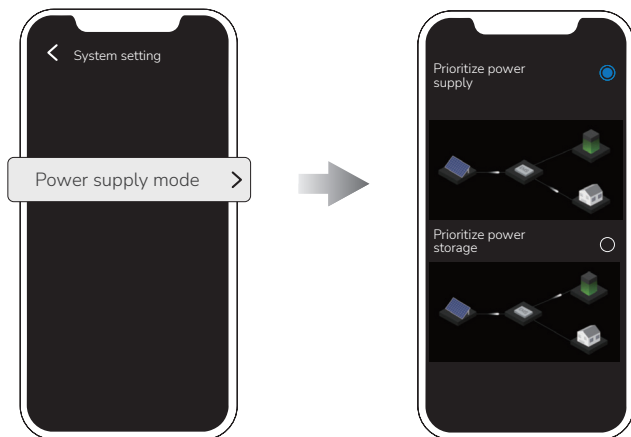
On the page of your PowerStream system, tap  > "Power supply mode". Then, select the mode you need.

- **Prioritize power supply:**

Select this option if you want to prioritize meeting the power consumption of electrical appliances. In this mode, when the power supply exceeds the demand for electrical appliances, the portable power station will be charged. When the demand for electrical appliances is less than the power supply, the portable power station will discharge.


- **Prioritize power storage:**

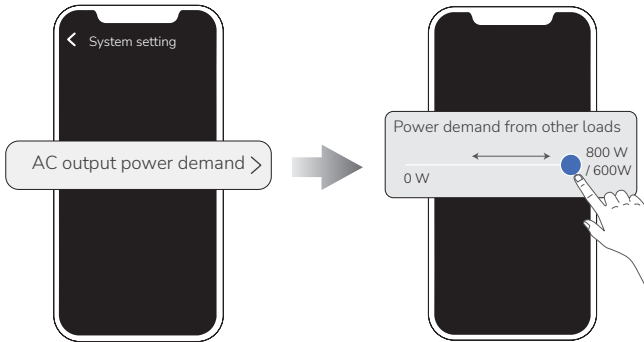
Select this option if you want to prioritize charging the portable power station until it reaches its charging limit. In this mode, the portable power station will not discharge to the microinverter.





## | Setting the AC output power demand

On the page of your PowerStream system, tap  > "AC output power demand".  
The AC output power demand = Power demand from other loads + Load power of smart plugs



## | Firmware update

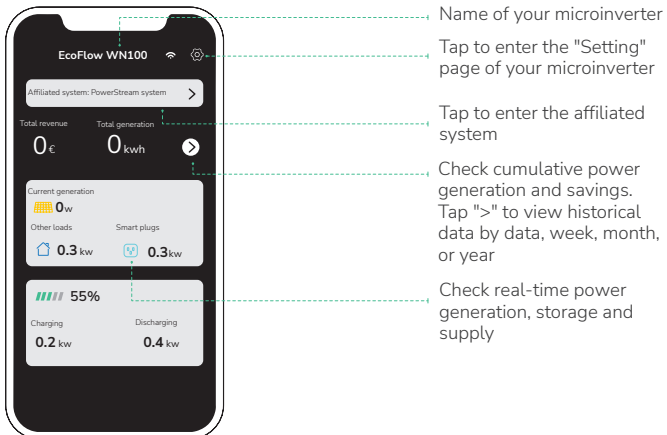
On the page of your PowerStream system, tap  > "Firmware" to check the firmware version of the microinverter and the smart plug to update the firmware.



- To update the microinverter separately, you can also update the firmware on the "Setting" page of your microinverter.

## Page of your microinverter

In the list of your devices, tap the microinverter to go to the page of your microinverter.

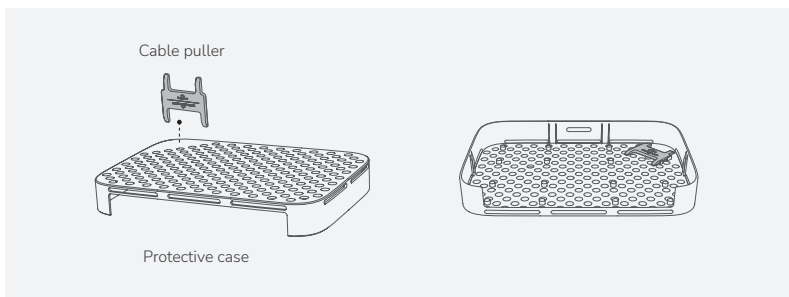


# Unplug the Cables

## **⚠ DANGER**

- Do not remove the connector with your hand only. Please use the cable puller supplied with the product to assist in pulling out the connector.
- If you have installed the protective case, please remove the protective case from the microinverter before you pull out the connector.

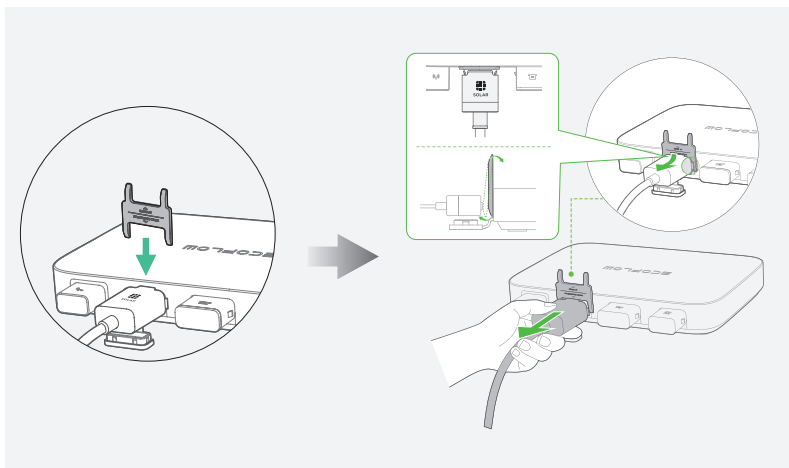
## | Where is the cable puller?



## | How to use the cable puller?

## **⚠ CAUTION**

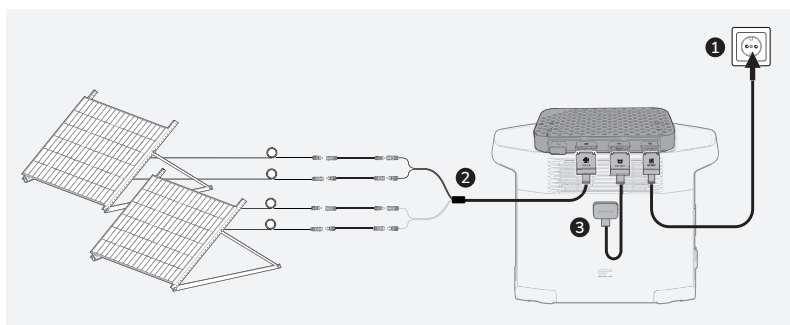
- Before you remove the battery connection cable, turn off the power station.



## Remove connectors in the following order:

### NOTICE

- Before you pull out the AC (or battery) connector from the microinverter, disconnect the cable from the AC socket (or battery's) end.



# Troubleshooting

If the LED indicator turns yellow or red, warning or errors occur. Please follow the instructions in the app or the table below to deal with the problem. If it is not eliminated, please contact the customer service.

 **DANGER**

- Do not attempt to repair the microinverter.

| Error code | LED indicator      | Name         | Suggestion   |
|------------|--------------------|--------------|--|
| 1          | Red                | Device error | <ol style="list-style-type: none"><li>1. Unplug all cables connected to the PowerStream.</li><li>2. Wait for 30 seconds, and then plug in all the cables.</li><li>3. If the issue persists, contact customer service.</li></ol>  |
| 2          | Red                | Device error | <ol style="list-style-type: none"><li>1. Unplug all cables connected to the PowerStream.</li><li>2. Wait for 30 seconds, and then plug in all the cables.</li><li>3. If the issue persists, contact customer service.</li></ol>  |
| 4          | Red                | Device error | <ol style="list-style-type: none"><li>1. Unplug all cables connected to the PowerStream.</li><li>2. Wait for 30 seconds, and then plug in all the cables.</li><li>3. If the issue persists, contact customer service.</li></ol>  |
| 8          | (Displayed in app) | Grid error   | <ol style="list-style-type: none"><li>1. Try pulling out the AC cable and inserting it back again. Make sure that the plug is securely inserted.</li><li>2. If the issue persists, the power grid is probably faulty. Wait for the power grid to recover.</li><li>3. If the issue persists for more than 1 hour, contact customer service.</li></ol> |
| 16         | (Displayed in app) | Grid error   | <ol style="list-style-type: none"><li>1. Try pulling out the AC cable and inserting it back again. Make sure that the plug is securely inserted.</li><li>2. If the issue persists, the power grid is probably faulty. Wait for the power grid to recover.</li><li>3. If the issue persists for more than 1 hour, contact customer service.</li></ol> |
| 32         | (Displayed in app) | Grid error   | <ol style="list-style-type: none"><li>1. Try pulling out the AC cable and inserting it back again. Make sure that the plug is securely inserted.</li><li>2. If the issue persists, the power grid is probably faulty. Wait for the power grid to recover.</li><li>3. If the issue persists for more than 1 hour, contact customer service.</li></ol> |
| 64         | (Displayed in app) | Grid error   | <ol style="list-style-type: none"><li>1. Try pulling out the AC cable and inserting it back again. Make sure that the plug is securely inserted.</li><li>2. If the issue persists, the power grid is probably faulty. Wait for the power grid to recover.</li><li>3. If the issue persists for more than 1 hour, contact customer service.</li></ol> |

|       |                    |                                     |  |
|-------|--------------------|-------------------------------------|--|
| 128   | (Displayed in app) | Grid error                          | <ol style="list-style-type: none"> <li>1. Try pulling out the AC cable and inserting it back again. Make sure that the plug is securely inserted.</li> <li>2. If the issue persists, the power grid is probably faulty. Wait for the power grid to recover.</li> <li>3. If the issue persists for more than 1 hour, contact customer service.</li> </ol> |
| 256   | Red                | Device error                        | <ol style="list-style-type: none"> <li>1. Unplug all cables connected to the PowerStream.</li> <li>2. Wait for 30 seconds, and then plug in all the cables.</li> <li>3. If the issue persists, contact customer service.</li> </ol>  |
| 512   | Red                | Device error                        | <ol style="list-style-type: none"> <li>1. Unplug all cables connected to the PowerStream.</li> <li>2. Wait for 30 seconds, and then plug in all the cables.</li> <li>3. If the issue persists, contact customer service.</li> </ol>  |
| 1024  | Red                | Device error                        | <ol style="list-style-type: none"> <li>1. Unplug all cables connected to the PowerStream.</li> <li>2. Wait for 30 seconds, and then plug in all the cables.</li> <li>3. If the issue persists, contact customer service.</li> </ol>  |
| 4096  | (Displayed in app) | Disconnected from grid              | <ol style="list-style-type: none"> <li>1. Try pulling out the AC cable and inserting it back again. Make sure that the plug is securely inserted.</li> <li>2. If the issue persists, the power grid is probably faulty. Wait for the power grid to recover.</li> <li>3. If the issue persists for more than 1 hour, contact customer service.</li> </ol> |
| 16384 | Red                | Device error                        | <ol style="list-style-type: none"> <li>1. Unplug all cables connected to the PowerStream.</li> <li>2. Wait for 30 seconds, and then plug in all the cables.</li> <li>3. If the issue persists, contact customer service.</li> </ol>  |
| 4     | Yellow             | Incorrect wiring of the solar panel | Make sure the solar panel is correctly wired. If the issue persists, contact customer service.   |
| 8     | Yellow             | Incorrect wiring of the solar panel | Make sure the solar panel is correctly wired. If the issue persists, contact customer service.   |
| 16    | Yellow             | Device temperature too high         | Keep the ambient temperature within the range of -40 °C to 50 °C. If the issue persists, contact customer service.   |
| 32    | Yellow             | Temperature too low                 | Keep the ambient temperature within the range of -40 °C to 50 °C. If the issue persists, contact customer service.   |
| 64    | Red                | Overvoltage at the solar panel      | Check if the open-circuit voltage of the solar panel is between 11V and 55V.   |
| 16    | Yellow             | Temperature too high                | Keep the ambient temperature within the range of -40 °C to 50 °C. If the issue persists, contact customer service.   |

|    |        |  |  |
|----|--------|--|--|
| 4  | Yellow | Battery level of the power station is too high | Discharge electricity from the power station until the battery level drops to 90%.                                 |
| 16 | Yellow | Abnormal voltage at the DC port                | Make sure the voltage at the DC port falls within the range of 11V to 15V or 40V to 59V.                           |
| 32 | Yellow | Abnormal voltage at the DC port                | Make sure the voltage at the DC port falls within the range of 11V to 15V or 40V to 59V.                           |
| 8  | Yellow | Temperature too high                           | Keep the ambient temperature within the range of -40 °C to 50 °C. If the issue persists, contact customer service. |
| 16 | Yellow | Temperature too low                            | Keep the ambient temperature within the range of -40 °C to 50 °C. If the issue persists, contact customer service. |

# Specifications

| General info                                |  |                              |
|---|--|------------------------------|
| Model                                       | EFWN511/EFWN511B                           |                              |
| Dimension                                   | 242×169×33 (mm)                            |                              |
| Weight                                      | Approximately 3 kg                         |                              |
| PV port                                     |  |                              |
| Operating voltage                           | 11 - 55 Vd.c.                              |                              |
| Maximum input voltage                       | 55 Vd.c.                                   |                              |
| Maximum input current                       | 13 A                                       |                              |
| Initial input voltage                       | 15 Vd.c.                                   |                              |
| Anti-reverse connection protection          | Supported                                  |                              |
| Overvoltage                                 | II   |                              |
| Max. PV short circuit current (Isc PV)      | 14 A                                       |                              |
| Max. inverter backfeed current to the array | 0 A  |                              |
| Number of MPPTs                             | 2  |                              |
| BAT / DC port                               |  |                              |
| Discharging mode                            | Maximum input current                      | 13 A                         |
|   | Input voltage                              | 11 -15 Vd.c. , 40 - 59 Vd.c. |
|   | Maximum input voltage                      | 59 Vd.c.                     |
| Charging mode                               | Charging voltage                           | 30 - 58 Vd.c.                |
|   | Maximum charging current                   | 13 A                         |
|   | Rated charging voltage                     | 48 Vd.c.                     |
|   | Overvoltage                                | II                           |
|   | Battery input short circuit current rating | 20 A                         |

| <b>AC port</b>                        |  |
|---------------------------------------|--|
| Output voltage                        | 220/230/240 V.a.c.   |
| Output frequency                      | 50 Hz  |
| Output power factor                   | ±0.8 ~ 1   |
| Maximum output current                | EFWN511: 3.7 A<br>EFWN511B: 2.8 A  |
| Maximum output fault current          | 18.4 A   |
| Maximum output overcurrent protection | 4 A  |
| THDI                                  | <=3%@100% load   |
| Overvoltage                           | III  |
| <b>Others</b>                         |  |
| Placed                                | Indoors or outdoors  |
| Pollution degree                      | PD3  |
| Ingress Protection rating             | IP67   |
| Operating temperature                 | -40 °C to 50 °C (-40 °F to 122 °F)   |
| Humidity                              | 0 % to 100 %   |
| Altitude                              | ≤2000 m  |
| Wet location                          | Yes  |
| Type of inverter                      | Isolated   |
| Protective class                      | 1  |
| Wi-Fi (2.4G)                          | Frequency range:<br>20M: 2412 - 2472 MHz / 40M: 2422- 2462 MHz<br>Maximum output power: ≤ 20 dBm |
| Bluetooth®                            | Frequency range: 2402-2480MHz<br>Maximum output power: ≤ 20 dBm                                  |

For updated parameters, please go to our website to download the latest user manual.





PAP

Raccolta carta