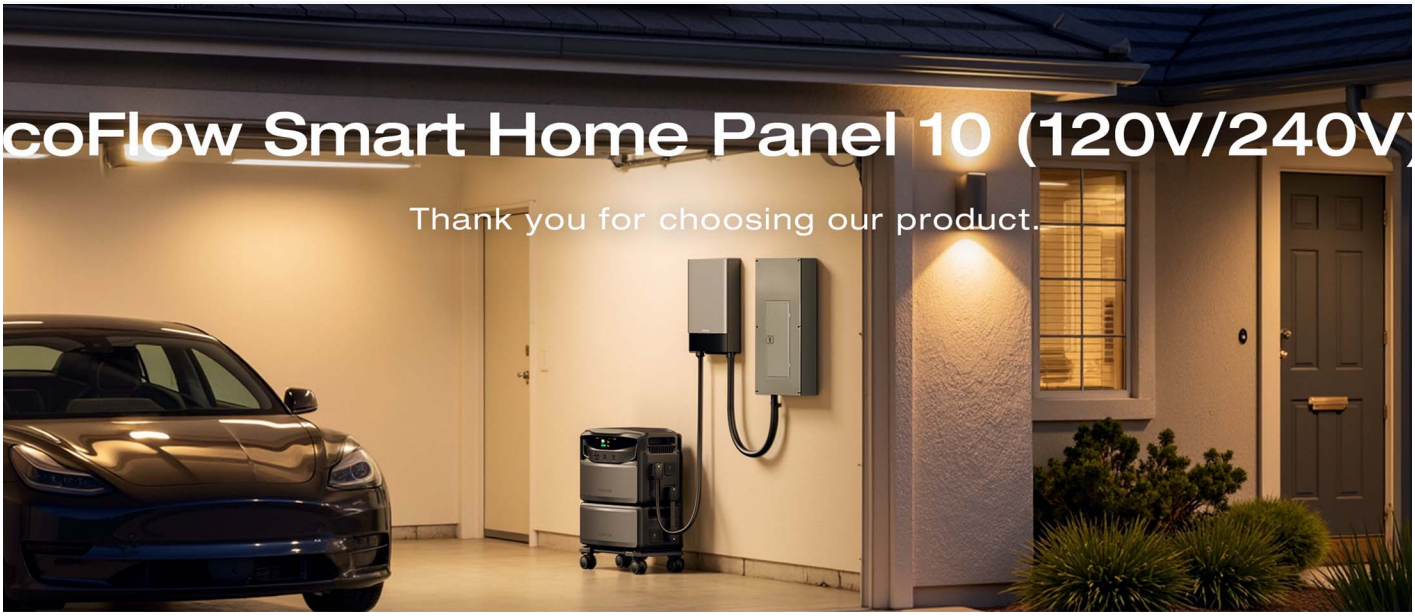


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About This Manual

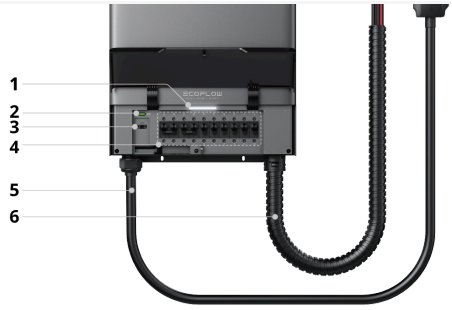
- This combined user manual covers both the EcoFlow Smart Home Panel 10 (120V) and EcoFlow Smart Home Panel 10 (240V) models. It provides a comprehensive overview of the systems, including essential operation, management, and maintenance guidelines.
- Throughout this manual, the EcoFlow Smart Home Panel 10

(240V)“, "the product," or "the panel".

- All images displayed in this manual are for demonstrative purposes only. Visuals feature SHP10 240V version as demonstration. Please refer to the actual product received.
- Please be advised that product specifications and information are subject to change without prior notice. If you are reading this manual in PDF format, please note that you can access it online at EcoFlow Support website for a better experience and the latest updates.

Product Overview

EcoFlow Smart Home Panel 10 (hereinafter referred to as "SHP10") is an advanced panel designed to optimize the balance between grid and backup power. Supporting up to 10 smart circuits, it enables real-time energy management across your home. When paired with a storage system, SHP10 enhances your home’s energy resilience by providing flexible, intelligent backup power that reduces energy waste, improves reliability, and helps achieve greater energy independence.

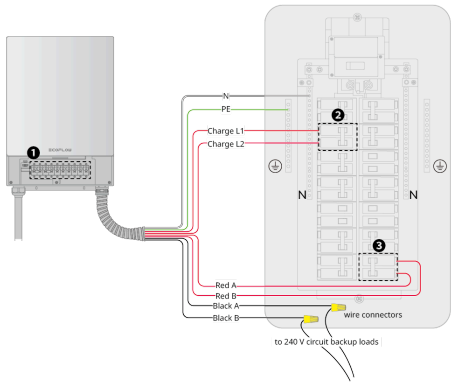


1	LED Indicator	**4**	SHP10 circuit breaker[3]
2	ER Button[1]	**5**	Storage System Connection Cable
3	EPO Port[2]	**6**	Pre-wired Whip

[1] ER Button: Press and hold the ER button for 10 seconds to bypass self-check during off-grid commissioning or update branch circuit status in the App after wiring changes. Press once to enable storage system.

[2] The EPO port comes with a factory-installed jumper wire. This jumper must remain in place for the system to operate unless an external EPO switch is installed.

[3] Switch these breakers to the ON position for normal operation. To completely de-energize the circuit before servicing, switch both these breakers and their corresponding Main Panel breakers to the OFF position, as power may otherwise remain active.



1	SHP10 Circuit Breaker	Located on the product itself
2	Charge Circuit Breaker	Located in your home's main panel
3	Gird-side Circuit Breaker	Located in your home's main panel

> **Note**: While illustrations show 240 V model (Double-Pole breakers), the same logic applies to 120 V model using Single-Pole breakers.

Indicator

The system features two status indicators: the ER Button LED displays the status of the connected TITAN Series power station, while the main LED indicator shows the status of the panel.

ER Button indicators

Off	Storage System Off / Deactivated
Blinking Green	Standby
Solid Green	Discharging
Solid Amber	Charging
Solid Red	Error

LED Indicators

Indicator Status	Description
Solid Green	The Panel is powered on.
Breathing Green, followed by three blinks	Connecting to the Internet.
Flowing Green	Firmware upgrade in progress.
Solid Green transitions to White, followed by three blinks	Grid power available.
Blinks White three times, then transitions to Solid Green	Grid power unavailable.
Blinking Red	Error.

Flowing Amber	System self-check in progress.
Flowing Amber transitions to Solid Green	Self-check bypassed via 10-second ER Button press-and-hold.
Solid Green transitions to Blinking Green	System startup complete; awaiting initial commissioning.

Tip:
If an error indicator appears, refer to the error description and follow the troubleshooting steps in the EcoFlow app.

Installation Overview

This section provides an overview of the SHP10 installation process. Installation and servicing of this product must be performed by qualified electrical personnel only. For detailed mounting and wiring information, refer to the Installation Guide provided in the product package or available at EcoFlow Support website.

ensure that all required tools and materials are prepared. The essential items are listed below. For a complete list of materials, please refer to the Installation Guide.

- For SHP10 (120V)

Single-pole Branch Circuit Breaker (non GFCI/AFCI)：15A, 20A, 30A or 40A; 30A and 40 A Recommended. For Charge circuit. Install it on the Main Panel.

- For SHP10 (240V)

Double-pole Branch Circuit Breaker (non GFCI/AFCI)：20A, 30A or 50A; 50 A Recommended. For Charge L1 & L2 circuits. Install it on the Main Panel.

> The EPO and OCPD are optional components. Please install them as required by your local electrical codes and regulations.

2. Site survey

If using professional services, typically one or two installers will assess your home's electrical system and installation environment to determine the best solution. You will receive a quote for installation and any additional materials required.

3. Permit application

The installer will apply for necessary

4. Installation

Installers may drill mounting holes, route conduits. The installation process includes mounting the SHP10, completing wiring, and energizing the system upon final checks. For detailed installation instructions, please refer to the installation guide available at: EcoFlow Support website.

5. Commissioning

Complete system commissioning with the help of installers. During commissioning, you will be required to input system parameters, including but not limited to:

- Grid voltage and frequency
- Eletricity rate
- Split-phase circuit configuration (if applicable)

6. Self-check

The system will initiate a self-check after the Commissioning is done. While commissioning with utility power is highly recommended, you may proceed in an off-grid state. Performing a 10-second press-and-hold on the ER Button can bypass the self-check.

> Bypassing the self-check will NOT verify your wiring. You must manually ensure all

Safety Best Practices & Rules

To keep yourself safe and your system running perfectly, please follow these essential guidelines during installation and use.

DO:

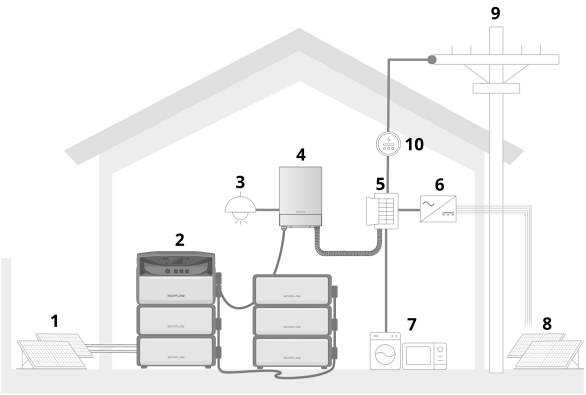
1. DO switch ON both the Panel breaker and the connected Main Panel breaker to ensure normal operation.
2. DO switch OFF both the Panel breaker and the Main Panel breaker before maintenance to ensure complete de-energization.
3. Do match the amperage rating (Amps) of each Main Panel breaker with its corresponding SHP10 breaker.
4. DO use a multimeter to verify zero voltage before touching any terminals.

DO NOT

1. DO NOT switch OFF the charging circuit breakers during normal operation, as this will disable the system.

protected by GFCI or AFCI breakers.

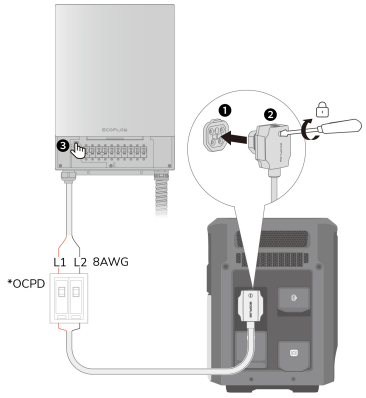
Connect to Backup Power



SHP10 serves as a sub-panel for circuit expansion. You could connect backup power storage systems such as portable power stations (TITAN Series) to SHP10.

1	Solar Panels	**6**	Third-party Inverter
2	EcoFlow TITAN Series	**7**	Home Loads
3	Backup Loads	**8**	Solar Panels
4	SHP10	**9**	Utility Grid
5	Main Panel	**10**	Utility Meter

portable power stations

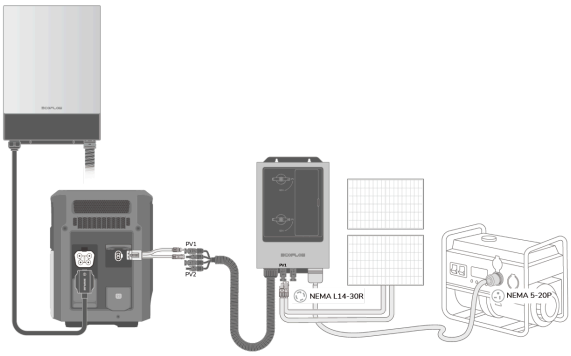


The OCPD is an optional component. If required by local electrical codes, install an overcurrent protection device (OCPD) between this product and the battery storage system.
*The OCPD rating must comply with local regulations. A 50A 2P circuit breaker is recommended.

Connect via EcoFlow Flow Master Rectifier

Even when the TITAN series is integrated with the SHP10, you can still connect additional energy sources. By using the EcoFlow FlowMaster Rectifier, you can link both a generator and solar panels to the TITAN Series to further bolster your system's power input and reliability. Additionally, the TITAN

setup to increase the total capacity.



Explore EcoFlow App

App Overview

App introduction

EcoFlow offers a companion app for device management. With this mobile application, you can:

- Enjoy all-in-one control of your EcoFlow devices from anywhere.
- Monitor power consumption details seamlessly with real-time updates.
- Personalize your energy scheme with an array of customizable options.
- Promptly receive in-app troubleshooting and firmware updates.

App download

You can download the EcoFlow app in any of the following ways:

to download.

- Scan the QR code, or search for "EcoFlow" in the App Store (iOS) or Google Play (Android).



> When used with an EcoFlow TITAN Series power station, both the SHP10 and the power station can be managed and configured within the same Space in the EcoFlow app.

Control Circuits

You can enable or disable all connected circuits via the EcoFlow app. This control has the highest priority. Turning off a circuit in the app will entirely disconnect the power supply. Additionally, you can configure circuit schedules in the Smart circuit settings. For example, by scheduling specific times for a circuit to be enabled or disabled, you can automate the power supply to its connected loads.

Set backup strategy

To prepare for a power outage, configure the following settings in the EcoFlow App:

- Storm Guard
- EPS Mode (Emergency Power Supply)
- Circuit priorities
- Backup reserve

Storm guard

When Storm Guard is enabled and a severe weather event is forecasted to affect your area within 24 hours, the system will automatically charge the connected batteries to 100%.
If an outage occurs and the generator is unable to supply power, the system will use battery power to support home loads.
To opt out of Storm Guard for an individual storm, open **Settings > Backup power settings > Storm Guard**, then disable the selected event.

EPS Mode

The EPS Mode enables the system to switch to battery power within 20 milliseconds during an outage, minimizing power interruption. If EPS Mode is disabled, the switch time is approximately 5 seconds.

Circuit priorities

During an outage, the system uses battery power to supply home circuits

- **Must Have:** Always powered during an outage as long as battery capacity is available. At least one circuit must be assigned to this category.
- **Nice to Have:** Powered only when the battery level is equal to or above a user-defined threshold (default is 50%).
- **Non-Priority:** Not powered during an outage when running on battery.

To configure circuit priorities, go to: **Settings >Backup power settings > Circuit Priorities**

Backup reserve

Backup Reserve defines the minimum battery capacity reserved for backup during power outages.

- While the system is connected to the grid, the battery will only discharge down to this reserve level.
- During an outage, the system can discharge below the reserve, down to its discharge limit (typically 0%).
- The default value is 50%. If the battery falls below this level, it will recharge from PV first; if no PV is available, it will recharge from the utility grid.

Set operating modes

Self-Powered, Scheduled Tasks, and Intelligent Mode. The selected operating mode runs while the battery is above the reserve level. Once the battery falls below this threshold, Backup Reserve activates and recharges the battery using grid power. These can be configured in **Settings > Operating Mode**.

Self-powered mode

This mode prioritizes solar and battery power to minimize grid use.

- Excess solar energy will charge the battery once the home load requirements are met.
- Battery discharges once it hits the charge limit, or if its level rises about 20% above the backup reserve, with priority given to the latter.
- Battery stops discharging once it falls below the backup reserve level.

Scheduled tasks mode

Schedule battery charging and discharging according to your needs.

- Charging task: Define time periods during which the battery charges if its level falls below the charge limit.
- Discharging task: Define time periods during which the battery

Intelligent mode

Intelligent mode automatically creates a daily cost-saving strategy based on solar generation, household consumption, and electricity prices. It manages battery charging and discharging to optimize energy use. The system stores excess energy when costs are low and supplies power to the home when costs are high. This helps users reduce electricity expenses without manual input.

Firmware update

You can update the firmware when the SHP3 is connected either to the grid or to battery power.
Go to **Settings** > **Firmware** in the EcoFlow app for updates.

Safety Instructions and Regulatory Compliance

Disclaimer

Read this document carefully before using the product to ensure that you completely understand the product and can correctly use it. After reading

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 this product in compliance with this document.
In compliance with laws and regulations, EcoFlow reserves the right to final interpretation of this document and all documents related to this 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.

Important safety instructions

General

1. Please read the product document carefully before installing, operating, or servicing this equipment.
2. Installation of this equipment must conform to local standards, national electrical safety standards, and the manufacturer’s instructions.
3. The AC cables are high voltage. Risk of death or serious injury due to electric shock.

before servicing.
5. Maximum continuous loads on branch circuits not to exceed 80% of the ratings of the circuit breakers employed in other than motor circuits.
6. There is a high possibility of electric shock or serious burns due to the high voltages in the equipment.
7. Suitable for use with interconnected parallel electric power production sources.

Operation

1. Use appropriate personal protective equipment (PPE) and follow safe electrical work practices.
2. Wiring methods in accordance with the National Electrical Code, ANSI/NFPA 70 are to be used.
3. Risk of Electric Shock: Do not touch exposed electrical cables or parts with bare hands.
4. Be cautious to prevent injury when moving heavy objects. Wear personal protective gears such as protective gloves and shoes when manually moving the equipment.
5. Do not install or operate the equipment in an area where flammable or explosive materials are stored.
6. Inspect the equipment and cables for damage before installing. Do not install the equipment or cables if damaged in any way.
7. Turn off all power supplying this equipment before installation.

sources are terminated inside this equipment.

8. Always use a properly rated voltage sensing device to confirm power is off.
9. During the drilling process, cover the interior equipment to prevent debris from falling into the equipment, and clear the debris after drilling to prevent interference with the equipment.
10. Do not damage, smear or cover any warning labels on the device. All labels must be visible after installation. 11 Before operating the equipment, check the electrical connections to ensure that the equipment is reliably and permanently grounded.
11. Do not place any kind of objects on top of the product during operation.
12. To completely de-energize the product, you MUST open the upstream breakers as well as physically unplug all batteries or power. Failure to do so may present a shock hazard.
13. Do not place or install flammable or potentially explosive objects near the product or in explosive atmospheres.
14. Do not insert foreign objects into any part of the equipment.
15. Do not connect life-support systems, other medical equipment, or any other use where product failure could lead to injury to

16. Replace all devices, doors, and covers before turning on power to this equipment.
17. In the case of cables damaged, it must be replaced by the manufacturer, customer service or qualified personnel to prevent a safety hazard.
18. Do not use solvents to clean the equipment.
19. Do not use parts or accessories other than those specified for use with the equipment.
20. When installing the equipment, , the screws need to be tightened according to the specification torque using a special tool.

Environment

1. Do not install or operate the equipment in extreme weather events such as lightning, snow, heavy rain, strong wind and so on.
2. Install the equipment in a location that prevents damage from flooding. Ensure that no water sources are above or near the equipment, including downspouts, sprinklers, or faucets.
3. The equipment must be disposed of according to local codes and regulations.
4. Keep out of reach of children or animals.
5. This product is designed for residential use only.

FCC Compliance Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Industry Canada Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi,même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CAN ICES(B) / NMB(B)

RF exposure statement
This equipment meets the exemption from the routine evaluation limits in section 2.5 of RSS-102.
It should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.
Cet équipement est conforme à l'exemption des limites d'évaluation habituelle de la section 2.5 de la norme RSS-102.Il doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et toute partie de votre corps.

Technical Specification

Dimensions

EcoFlow Smart Home Panel 10 (120V)

Model	EF-SHP-10-G1
Dimensions	14.2 x 20.3 x 4.0 in (360 x 515 x 102mm)
Net Weight	Approx. 20.7 lb (9.4kg)
Enclosure Protection	NEMA 1 (Indoor Use Only)
Installation Method	Wall mounting
Number of Load Branch Circuit	10
Overvoltage Category	IV
Wi-Fi (2.4G)	Supported
Bluetooth	Supported
Certificates	Conforms to: UL Std. 67, UL1741, UL3141 Certified to: CSA Std C22.2 No. 29,

	CSA C22.2 No. 107.1
Grid Connection	120V, 60 Hz, L/N/PE
Rated Input Voltage	120V
Rated Input Current	44A
Max. Input Current	50A
Max. Continuous Input Current	44A
Busbar Rating	50A
Max. Input Short-Circuit Current	10kA (Grid Side)
Branch Circuit Rated Current	24A 1P (×1), 16A 1P (×1), 12A 1P (×8)
Branch Circuit Max Current	30A 1P (×1), 20A 1P (×1), 15A 1P (×8)
Self-Consumption at Night	≤5W
Operating temperature	−10°C to 45°C (14°F to 113°F)
Storage Temperature	−30°C to 70°C (−22°F to 158°F)

Operating Humidity	Up to 85% RH, condensing
Max Operating Altitude	≤ 9,842 ft (3,000 m)

EcoFlow Smart Home Panel 10 (240V)

Model	EF-SHP-10-G1S
Dimensions	14.2 x 20.3 x 4.0 in (360 x 515 x 102mm)
Net Weight	Approx. 22.3 lb (10.2kg)
Enclosure Protection	NEMA 1 (Indoor Use Only)
Installation Method	Wall mounting
Number of Load Branches	10
Overvoltage Category	IV
Wi-Fi (2.4G)	Supported
Bluetooth	Supported
Certificates	Conforms to: UL Std. 67, UL1741, UL3141 Certified to: CSA Std C22.2 No. 29, CSA C22.2 No. 107.1

Grid Connection	120/240V, 208Y/120V, 60Hz, L1/L2/N/PE
Rated Input Voltage	208/240V
Rated Input Current	44A
Max. Input Current	50A
Max. Continuous Input Current	44A
Busbar Rating	50A
Max. Input Short-Circuit Current	10kA (Grid Side)
Branch Circuit Rated Current	24A 2P (×1), 16A 2P (×1), 16A 1P (×2), 12A 1P (×4)
Branch Circuit Max Current	30A 2P (×1), 20A 2P (×1), 20A 1P (×2), 15A 1P (×4)
Self-Consumption at Night	≤5W
Operating temperature	−10°C to 45°C (14°F to 113°F)
Storage Temperature	−30°C to 70°C (−22°F to 158°F)

Operating Humidity	Up to 85% RH, condensing
Max Operating Altitude	≤ 9,842 ft (3,000 m)

Accessory List

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