PowerInsight 2 Monitor

Thank you for choosing Ecoflow home energy manager.

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About This Manual

- This manual contains an introduction to PowerInsight 2 monitor, and details on its operation, management, and maintenance. Please note that this manual may be updated without prior notice.
- The availability of certain accessories and features described in this manual may vary depending on your country or region.
- All images displayed in this manual are for demonstrative purposes only. Please refer to the actual product received.
- If you are reading this manual in PDF format, please note that you can access it online at EcoFlow Support for a better experience and the latest updates.

Overview
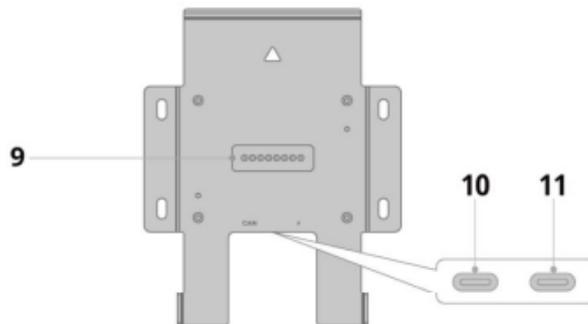
1	Physical Microphone Mute Switch	Slide the switch upward, away from the volume button. This indicates that the microphone is physically disconnected.
2	Volume Up/Down Button	Upper part increases the volume. Lower part decreases the volume.
3	Speaker	Audio Output
4	Power Button	Long press 2 to 3 seconds to turn on/off. Short press once to turn the screen on/off.
5	USB-C Port	Used for power supply.
6	TOF (Time-of-Flight) Proximity Sensor	Used for the feature proximity wake-up.
7	Ambient Light Sensor	Used for automatically adjusting the screen brightness.
8	Microphone	Audio Input

9	POGO Pin Side	Located on the bracket, supplies power to the monitor through the spring contact pins.
10	USB-C 1 Port	Located on the bracket, used to connect CAN devices and provide power supply.
11	USB-C 2 Port	Located on the bracket, used to connect a charging plug for power supply.

How It Works

PowerInsight 2 monitor connects to the EcoFlow IoT cloud via Wi-Fi to access your system data and manage the lifecycle of your power system - from generation to storage and consumption. It can also integrate devices from other brands via the Matter protocol, including thermostats for adjusting room temperature, smart plugs for monitoring consumption and controlling appliance power, and smart light bulbs for managing lighting.

Getting Started

1. Press the power button to turn on PowerInsight 2 monitor, and then set the language and WiFi network on the screen.
2. Open the EcoFlow app, then tap **+** > **Scan** to scan the QR code displayed on the PowerInsight 2 screen to log in your account.

Finish initializing and start using it!

New EcoFlow user? Download the EcoFlow app on your phone.

Q https://download.ecoflow.com/app

Available on the Google Play

Download on the App Store

> ⓘ NOTICE
> PowerInsight 2 monitor has a built-in battery that provides approximately **8 hours** of battery life during continuous operation.

Supported and Upcoming Devices

Currently Supported Devices

- EcoFlow OCEAN Pro
- EcoFlow OCEAN Smart Electrical Panel 40
- EcoFlow PowerOcean Plus
- EcoFlow PowerPulse EV Charger
- EcoFlow PowerOcean
- EcoFlow PowerOcean Single-phase
- EcoFlow Smart Home Panel 3
- EcoFlow Smart Gateway
- EcoFlow Smart Plug

Upcoming Supported Devices

- EcoFlow OCEAN EV Charger
- EcoFlow PowerPulse 2
- EcoFlow PowerHeat (compatible with the EcoFlow PowerOcean system)
- EcoFlow PowerGlow
- EcoFlow DELTA Pro Ultra
- EcoFlow DELTA Pro Ultra X
- EcoFlow DELTA Pro 3

Supported Third-Party Devices

- Smart Plugs (Shelly), Thermostats (Ecobee, Google Nest), Smart Meters (Shelly, Tibber Pulse)

Upcoming Supported Third-Party Devices

- Third-party Matter-supported device, types including smart light bulb, smart plug, thermostat, EVSE (electric vehicle supply equipment), heat pump, water heater, room air conditioner.

> ⓘ NOTICE
> - This list of supported devices will be updated from time to time. Upgrades will be released soon to support more devices, please stay tuned.
> - Some EcoFlow products are not sold in your country or region.
> - Make sure your PowerInsight 2 monitor system version is up to date for new supported devices.

Add devices

Use the EcoFlow app on your phone to add new devices, and PowerInsight 2 will automatically synchronize the added devices.
If the app contains devices that are not yet supported by PowerInsight 2, these devices will not be displayed in PowerInsight 2.

Add EcoFlow Devices

Bring your phone close to the device, and connect to the internet according to the instructions in the app.

(How to connect >)

Add Matter-supported Devices to EcoFlow System

You can add Matter-supported thermostats, light bulbs, and smart plugs to build a smarter home.

1. Swipe down from the top-right corner of any PowerInsight 2 page and tap **Settings** > **Matter** > **Binding Matter**.
2. Open the EcoFlow app, then tap **+** > **Scan** to scan the QR code displayed on the PowerInsight 2 screen.
3. Use the EcoFlow app to scan the Matter QR code of the device that needs to be added.

Now, you can control the device you have just added to PowerInsight 2 / EcoFlow app.

> **ⓘ** NOTICE
> - Ensure that the Wi-Fi used to connect to the device on your phone is the same as the local area network you configured for PowerInsight 2.
> - Only 2.4G/5G Wi-Fi is supported.

Bind a third-party account

In the EcoFlow app, click **+** > **Add devices** > **Add third-party devices** to bind a third-party account.

Mounting Your PowerInsight 2

You can mount PowerInsight 2 on a wall, place it on a tablet stand holder (not included in the box), or simply hold it directly in your hand.

> **⚠** CAUTION
> - Mounting PowerInsight 2 at a height of less than 59 in. (1.5 m) is recommended. The wall bracket can only be mounted in landscape orientation, as shown below.
> - The USB-C charger with 18W or higher output and the level are not included in the box.

To mount PowerInsight 2:

1. **Mount the wall bracket**: Use the wall bracket to locate the holes, and make sure to level them. Then, drill holes and insert anchors. Finally, place the bracket against the wall and drive the screws through the bracket holes.

2. **Power on**: Plug one end of the power cable into the USB-C port with the lightning logo on the bracket, and plug the other end into the charger. After that, connect the charger to an electrical outlet.

3. **Put PowerInsight 2 onto the bracket.** The PowerInsight 2 screen will display "Charging" when turned on, if it is securely mounted.
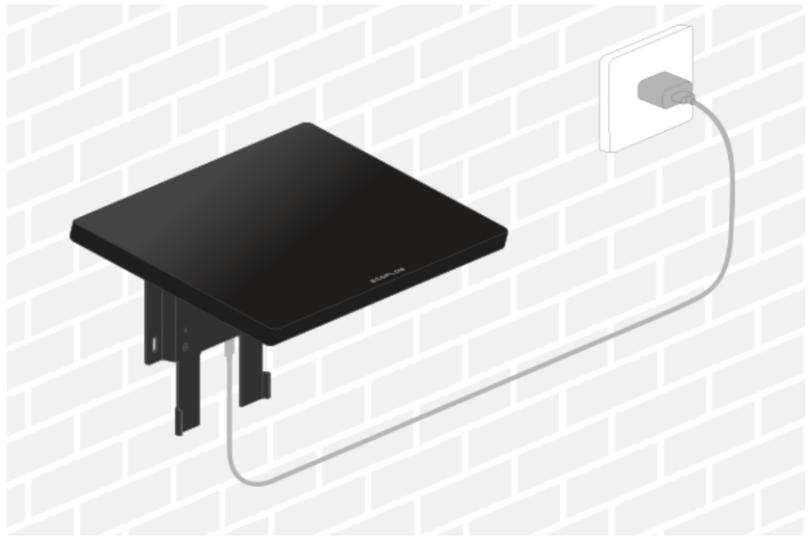
You can also view the step-by-step installation in the quick start guide provided.

Explore PowerInsight 2

- On the left panel of the PowerInsight 2 homepage, you can view your household's real-time energy data — including today's total energy earning, solar power generated, household electricity consumption, predicted solar generation, and 24-hour electricity prices.
  Click any data item to view detailed information by day, week, month, or year, and check the data source.

- On the right panel of the PowerInsight 2 homepage, you can switch to view the real-time energy data of each inverter and energy storage system — including today's grid electricity usage, solar panel generation, household electricity consumption, battery storage charge, and EV charger usage. Click any data item with an expansion arrow to view detailed data sources.

- The operating mode that the system runs is displayed on the right panel of the PowerInsight 2 homepage, such as **AI Mode**, **Self-powered Mode**, and **Forced Charging Mode**.

- On the PowerInsight 2 homepage, swipe left to enter the data card page. Click on a card to enter the **Dashboard** page.

> ℹ️ NOTICE
> Features and the home page vary depending on the system or devices you added, please refer to the actual product.

1	My home	5	AI assistant
2	Home page	6	Home system
3	Device list	7	Operating mode*
4	Automation	8	Data card*

*Whether or not the operating mode or data card is included depends on the connected system.

Screensaver

On standby mode, the screen saver displays temperature, date and time, and energy data.

Dashboard

Tap data cards on the home page to enter the dashboard. In the dashboard, you can view data by day, week, month or year, including solar power generation in **Total savings**, total discharging and charging power in **Battery**, and total consumption in **Home / Grid**.
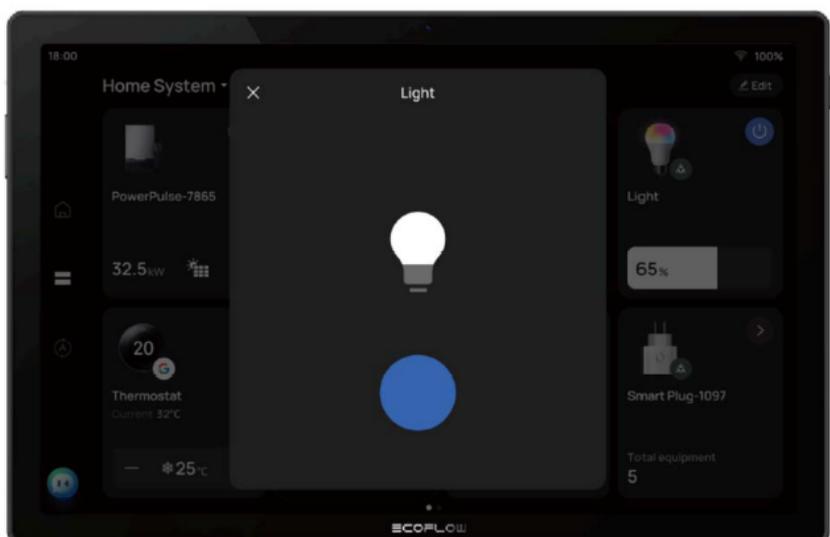
Device List

The appliances such as smart plugs and thermostats you added in the EcoFlow app will be displayed on the device list.

Tap the widget to control devices like Matter-supported thermostats, light bulbs, or smart plugs.
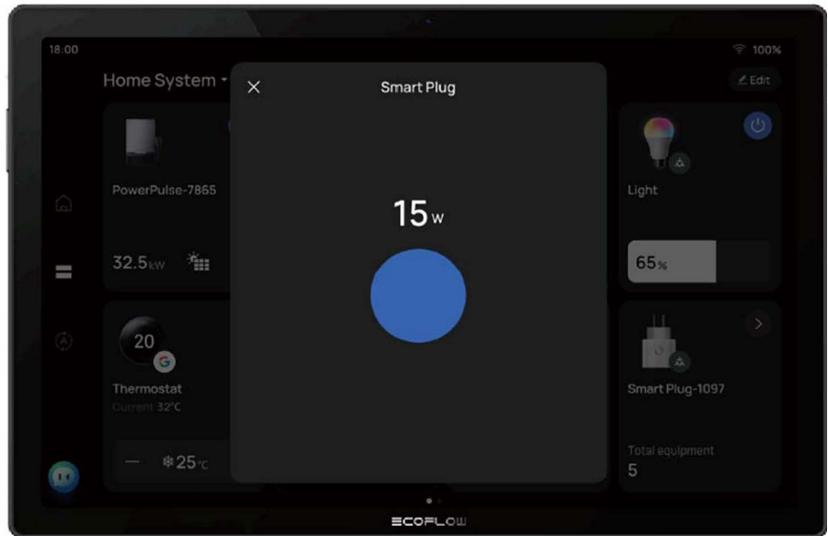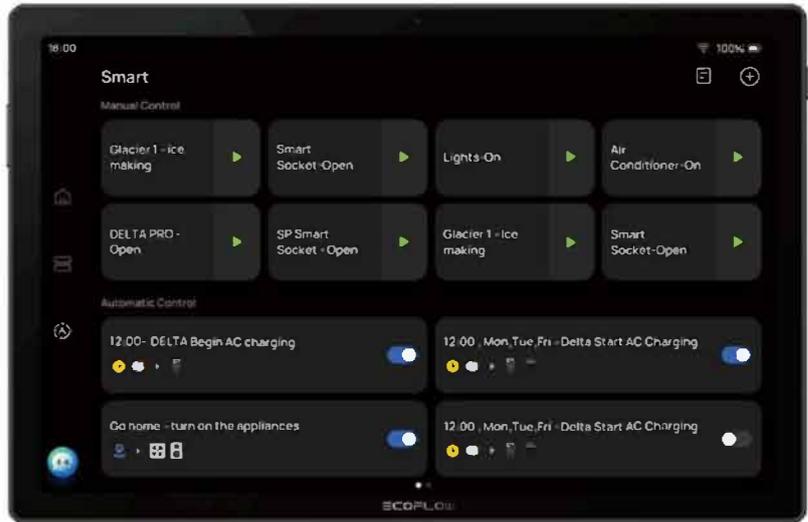
Automation

Automation features added in the EcoFlow mobile app will be automatically synced to PowerInsight 2. You can also create, modify, or delete automation rules directly on the PowerInsight 2 page.

Tap an automation task to execute it on the Automation page.

AI Assistant

When the microphone is on, tap the AI Assistant icon to enter listening mode. Once the device is awakened, a listening animation and a recommended questions section will appear at the bottom of the screen.

Customize Your PowerInsight 2

Quick Settings

Swipe down from the top-right corner on any page, and you can turn on/off **Wi-Fi**, **Bluetooth**, **Do Not Disturb**, adjust system sounds and screen brightness, or enter the **Settings** page for more settings.
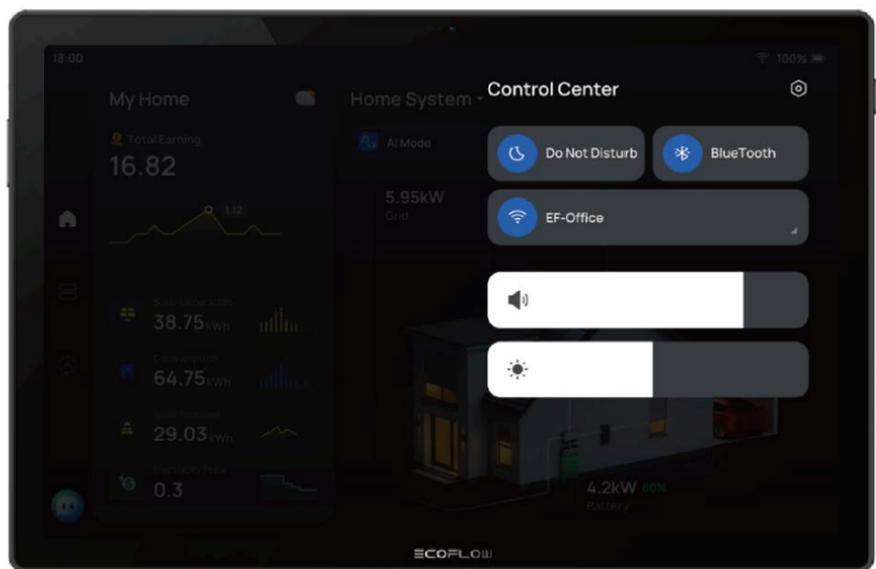
Wi-Fi

On the Wi-Fi page, there are two tabs, internet connection and local area network, indicating that you may connect PowerInsight 2 to these two types of networks.

- **Internet connection** (WLAN): used for connecting PowerInsight 2 to the internet and communicating with the cloud server. 2.4G and 5G Wi-Fi are both supported.
- **Local area network** (LAN): used for connecting and communicating with Matter-supported devices. Only 2.4G Wi-Fi is supported.

> ℹ️ NOTICE
> Ensure that the Wi-Fi used to connect to the device on your phone is the same as the local area network you configured for PowerInsight 2.

Bluetooth

On the Wi-Fi page, you can turn on/off **Bluetooth** switch.

Matter

Matter is an open standard for smart home technology that allows your devices to work with any Matter-certified ecosystem using a single protocol.
You can integrate the Matter-supported devices into the EcoFlow system for all-in-one control.

To add Matter devices to PowerInsight 2 or the EcoFlow app, PowerInsight 2 should be set as the central gateway. See "Add Matter-supported Devices to EcoFlow System" in the section "Add Devices" for instructions.

Set Screensaver

You can customize your lock screen wallpaper and widgets in **Settings** > **Screensaver**.

Set Display and Brightness

Adjust Brightness

Dim the screen to extend battery life, or use **Adaptive brightness**.

- Manually adjust in quick settings or in **Settings** > **Display & brightness**.
- Switch on or off **Adaptive brightness** to automatically adjust screen brightness to match the environment.

Set Auto Sleep

If you do not operate PowerInsight 2, it will show screensavers when on standby mode.

- Automatic standby after a certain time: Choose to be standby automatically after 30 seconds, 1 minute (by default), 5 minutes, 10 minutes, or never. Go to **Settings** > **Display & brightness** > **Auto sleep**.
- Enable/Disable screensaver: Switch on/off **Turn off screen when asleep** in **Settings** > **Display & brightness**.
- Enable/Disable automatic wake-up: Switch on/off **Proximity wake-up** in **Settings** > **Display & brightness**. If switched on, the home page will be displayed when you walk towards PowerInsight 2 (less than 1 m / 39.37 in. away from PowerInsight 2).

Set System Sounds

Go to **Settings** > **Sounds** to adjust the **System sounds** or switch on/off **Touch sound** to enable or disable sound effects when operating PowerInsight 2.

Set AI Assistant

Go to **Settings** > **EcoFlow Assistant** to set the AI assistant.

- You can turn on the **EcoFlow Assistant Shortcut** switch to display the EcoFlow assistant shortcut on the **Home** page.
- When the **Voice Wakeup** switch is on, the EcoFlow Assistant responds when you say "Hey EcoFlow." When it is off, PowerInsight 2 will not listen for commands until you manually activate the EcoFlow Assistant.

Set Do Not Disturb

Go to **Settings** > **Do Not Disturb** to set a Do Not Disturb period.

Set Date / Time / Language / Unit of Temperature

Go to **Settings** > **General settings** to set the date, time format, language, or unit of temperature.

Restore Factory Settings

Go to **Settings** > **General** to restore the factory settings of PowerInsight 2. The device will restart and you need to log in to your account again.

Software Update

New features and improvements are introduced through updates to PowerInsight 2.

To update PowerInsight 2:

Go to **Settings** > **Software update** and tap **Update**. You can switch on **Automatic update** for automatic update between 2:00 to 4:00 a.m.

System and IoT version of PowerInsight 2 might need to be updated.

- System version: operating system and application of PowerInsight 2.
- IoT version: built-in IoT module, mainly for the Matter feature.

Care and Maintenance

1. Under ideal conditions, operate this product within an ambient temperature range of 0°C to 45°C, and store within -10°C to 55°C. Keep the product away from water, high temperatures, and sharp objects during use and storage. To prolong the product's lifespan, do not store it in environments above 55°C or below -10°C.

What's in the Box
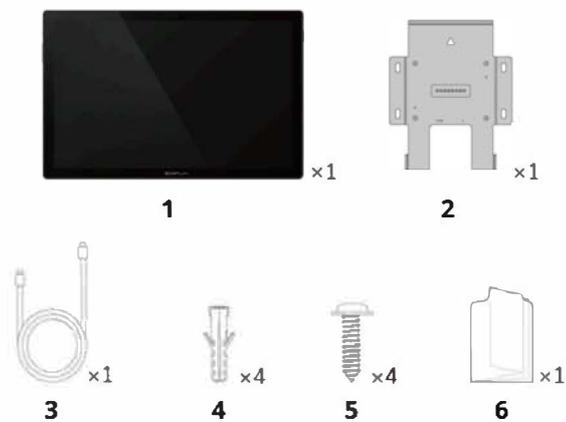
1. PowerInsight 2 Monitor x1
2. Wall bracket (115x145 mm / 4.5x5.7 in.) x1
3. USB-C to USB-C Power cable (2 m / 6.6 ft) x1
4. Wall Expansion Anchor (Plastic Anchor) x4
5. Self-tapping Screw x4
6. Quick Start Guide and Warranty Card x1

> 💡 You may need a USB-C charger with 18W or higher output for the best charging experience, but no charger is included in the box.

FAQ

1. How can I place the EcoFlow PowerInsight 2 Monitor?

PowerInsight 2 supports two placement methods:

- Wall-mounted installation: Fix the bracket to the wall and then attach PowerInsight 2 to the bracket. The bracket and the required screws for installation are included in the package. Once securely installed, the screen will display "Charging" when the device is powered.
- Flat placement: Place PowerInsight 2 on a stand like a tablet. Please note that the flat stand needs to be purchased separately and is not included in the standard package.

2. Does PowerInsight 2 Monitor need to be powered on all the time?

No. PowerInsight 2 has a built-in 9300mAh battery, which allows it to operate independently without external power, with a runtime of about 8 hours.

3. Why can't some devices be added to PowerInsight 2?

New devices must first be added through the EcoFlow mobile app. PowerInsight 2 will then automatically sync the devices from the app. If some devices are not yet supported by PowerInsight 2, they will not appear in PowerInsight 2.

4. What is the sensing distance for the PowerInsight 2 Monitor auto screen wake-up function?

After enabling the proximity wake screen option under **Settings > Display & Brightness** on PowerInsight 2, the PowerInsight 2 screen will automatically light up when you approach within ≤ 1 meter (approximately 39.37 inches).

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 this document, keep it properly 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 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 https://www.ecoflow.com

Safety Instructions

1. Follow all instructions and pay attention to all warnings.
2. This product does not contain any user-serviceable parts and the battery is not replaceable.
3. Do not use the product if it has been soaked in water. Contact a battery recycling company for disposal. Ensure battery disposal complies with local laws and regulations.
4. Do not dispose of the battery built in this product by throwing it into fire, a hot oven, or mechanically crushing or cutting it, otherwise this can lead to an explosion.
5. Do not leave the battery built in this product in an environment with extremely high temperatures and low air pressure, otherwise this can potentially lead to an explosion or the leakage of flammable liquid or gas.
6. Avoid using this product in extremely high or low temperatures, or in areas with low air pressure such as high altitudes, during use, storage, or transportation.
7. Do not disassemble this product in any way or pierce the product with sharp objects.
8. Please contact the manufacturer or retailer if this product does not function normally or is damaged.
9. Do not subject the product to severe impacts, vibrations, or drops.
10. Please do not trample or put heavy objects on the product.
11. When mounting this product, ensure the product is securely mounted to a solid wall or surface capable of supporting its weight.
12. The label is located on the rear surface of the product.
13. Only use attachments/accessories specified by the manufacturer.
14. FCC and ISED compliance information can be seen by sliding down the screen> Settings> Compliance Information.

Regulatory Compliance

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 correct the interference by one of the following measures:

- 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.

Radiation Exposure Statement

This device meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. The SAR limit of USA (FCC) is 1.6 W/kg averaged. Device types: EcoFlow PowerInsight 2 Monitor (FCC ID: 2A2P9-MT001) has also been tested against this SAR limit. SAR information can be viewed on-line at http://www.fcc.gov/oet/ea/fccid/. Please use the device FCC ID number for search. This device was tested simulation typical 0mm to body.

To maintain compliance with FCC RF exposure requirements, the use of accessories should maintain a separation distance between the user's bodies mentioned above, the use of accessories should not contain metallic components in its assembly, the use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

IC COMPLIANCE STATEMENT

This device complies with Industry Canada licence-exempt RSS standard(s)

Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie 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, et

(2) l'utilisateur de 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 Information and Statement This device has been tested and meets the IC RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 0mm from the body. Noncompliance with the above restrictions may result in violation

of RF exposure guidelines.

L'appareil a été testé pour répondre aux directives d'exposition IC RF lorsqu'il est utilisé avec un accessoire spécifié pour ce produit ou lorsqu'il est utilisé avec un accessoire qui ne contient pas de métal et qui place le téléphone à au moins 0 mm du fuselage. Le non - respect des restrictions ci - dessus peut entraîner une violation des directives d'exposition aux RF.

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.
For information on the disposal of electrical and electronic equipment, please visit the following website:
https://eu.ecoflow.com/pages/electronic-devices-disposal

Hereby, EcoFlow Inc. declares that this product is in compliance with Directives 2014/30/EU. The full text of the EU Declaration of Conformity is available at the following Internet addresses: http://www.ecoflow.com/eu-compliance

Hereby, EcoFlow Inc. declares that the product 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

Technical Specifications

General Info	
Model	EF-MT-002
Weight	Approximately 620 g (1.4 lbs)
Dimensions	258.4 x 169 x 12.6 mm (10.17 x 6.65 x 0.50 in.)
Host Interface	1 × Type-C (USB 3.0)
Bracket Interface	1 × Type-C (charging) + 1 × Type-C (CAN devices) + POGO PIN
Operating System	Android
Battery Capacity	9300mAh
Photosensitive Sensor	Ambient brightness detection
ToF Proximity Sensor	Max sensing distance 1m (39.37 in), error <0.05m (1.97 in)

Input/Output	
USB-C Input	5V⎓3A, 9V⎓2A, 12V⎓1.5A
USB-C Input (Bracket)	5V⎓3A, 9V⎓3A, 12V⎓2.5A
USB-C Output	5V⎓0.5A
Charging Power	18W wired fast charging (5V⎓3A, 9V⎓2A, 12V⎓1.5A)

Environment

Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	−10°C to 55°C (14°F to 131°F)
Humidity	10% to 90% RH (non-condensing)
Altitude	≤ 3000 m (≈9,842 ft)
IP Rating	IP42
Communication	
Self Communication	WLAN, Bluetooth
IoT Communication	Wi-Fi, Bluetooth, Matter protocol
Bluetooth	Frequency range: 2,402-2,480 MHz Max. output power: <20 dBm (EIRP)
Wi-Fi (2.4G, 5G)	2.4GHz Frequency range: CN/BR/MX/EU/GB/JP/KR/AU: 2,412 - 2,472 MHz TW/US/CA: 2,412 - 2,462 MHz Max. output power: <20 dBm (EIRP) 5.0GHz Frequency range: CN/MX: 5,180 - 5,320 MHz, 5,745 - 5,825 MHz BR/AU/CA/US: 5,180 - 5,320 MHz, 5,500 - 5,700 MHz, 5,745 - 5,825 MHz EU: 5,180 - 5,320 MHz, 5,500 - 5,700 MHz JP: 5,180 - 5,320 MHz, 5,500 - 5,720 MHz GB/KR/TW: 5,180 - 5,320 MHz, 5,500 - 5,720 MHz, 5,745 - 5,825 MHz Max. output power: <20 dBm (EIRP)
System Specification	
Screen Display	Type: Fully laminated touchscreen, glass surface with anti-fingerprint coating Size: 10.95 inches Aspect Ratio: 16:10 Resolution: 1920 × 1200 Refresh Rate: 60Hz Brightness (Typical): 300 nits
NPU Computing Power	6 TOPS (Tera Operations Per Second)
Memory & Storage	6GB RAM + 64GB ROM

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

Support Period

The software support period is 5 years.