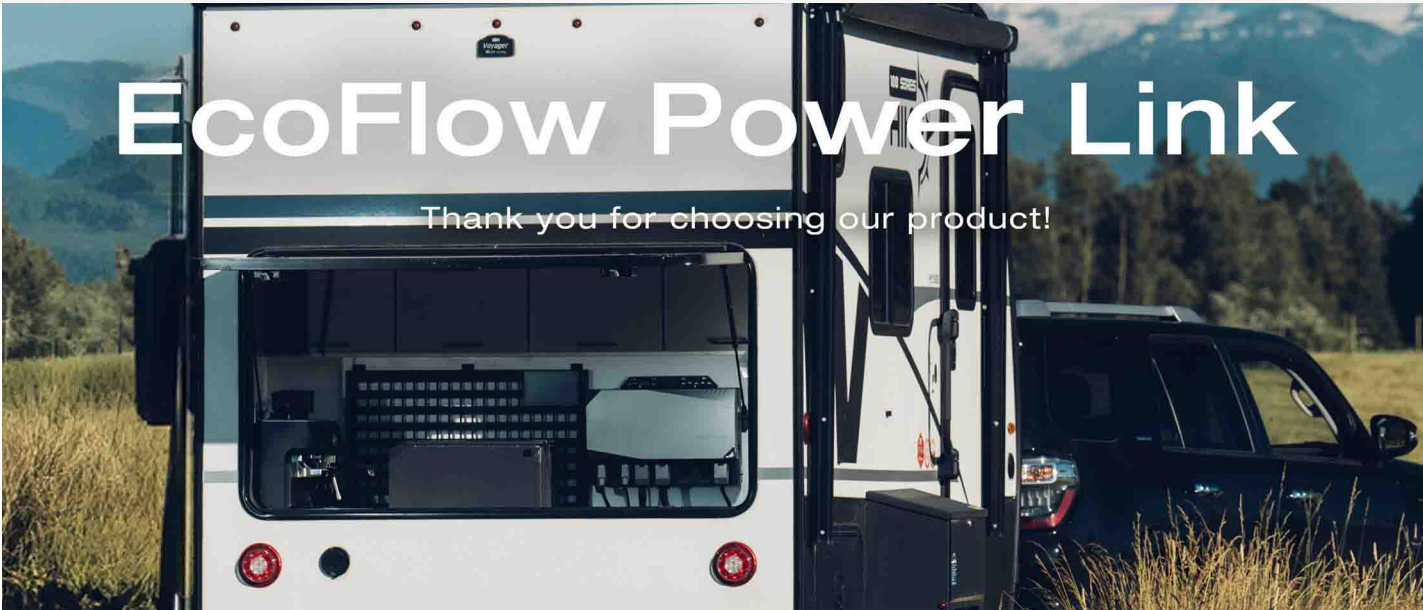




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FAQ



EcoFlow App



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Community

Overview

EcoFlow Power Link integrates data from EcoFlow Power Hub, EcoFlow smart distribution panel, sensors, and customized relays in your RV/marine system to central control.

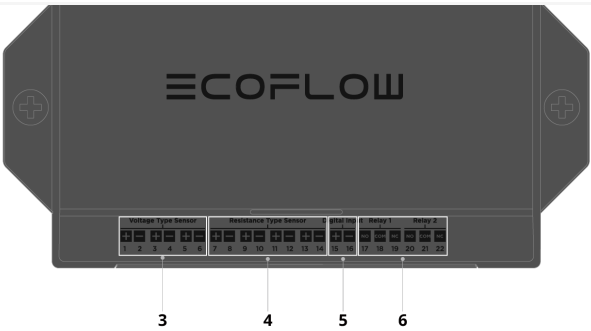
What's in the Box

Safety Instructions and Compliance

Disclaimer

Safety Instructions

Regulatory Compliance



- 1 Two EF BUS ports connect with EcoFlow Power Hub series or EcoFlow Smart Distribution Panel series
- 2 One CAN port, RV-C/NMEA 2000 in/out support
- 3 Connects with voltage-level sensors
- 4 Connects with resistive-level sensors or temperature sensors
- 5 Connects with one sensor of digital-input type
- 6 Connects with auto start/stop of engines or generators

LED Indication

- Breathing Operating, only the "EF BUS" ports are in communication
- Blinking slowly Operating, the "CAN" port is in communication

communication

Blinking
rapidly

Updating

Mounting and Wiring

Communication

CAUTION

- The EF BUS ports in the Power Kits system support communication among each other.
- Connect Power Link and smart distribution panel to Power Hub serially.
- Communication cable: 24 AWG, the total length of the Power Kits 5kVA 48V power system should be less than 21 m (69 ft), and that of the 3.6kVA system should be less than 15 m (49 ft)
 - The length of connecting Power Hub and distribution panel should be as short as possible, less than 18 m (59 ft)

distribution panel
should be less than 30
cm (11.8 in.)

- There are 2 EF BUS RJ45 ports in the Power Hub, connecting one with Power Kit Console, and the other with other accessories.

Communication cable:

Use the provided communication cable or meet the following requirements.

- T568B
- with an RJ45 connector
- 24 AWG
- Length requirement: No limitations with use less than 5 m (16 ft), 2x2x0.25 mm² Twisted pair recommended with use longer than 5 m (16 ft)

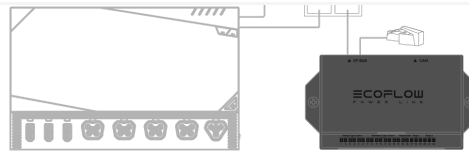
Mounting and Wiring Procedure

WARNING

- This device is not ignition-protected. Avoid serious injury or death from fire or explosion. Do not install in compartments containing gasoline-fueled engines or gasoline tanks, or in areas where ignition-protected equipment is required.

stable environment with minimal airflow to prevent external moisture. Ensure there is adequate space for the dissipation of heat. Recommended operating conditions are 20-25°C (68-77°F) and a relative humidity of about 50%.

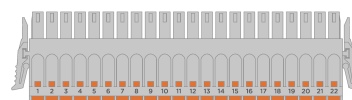
1. Fix Power Link using provided ST4.2x19 screws on both sides.
2. Connect with the Power Hub series (EcoFlow Power Hub 3.6kVA, or Power Hub 5kVA) on the "EF BUS" port to power this module.
3. For central control, connect EcoFlow Power Kit Console or a third-party console.
 - EcoFlow Power Kit Console: Connecting the console via the "EF BUS" port to the Power Hub directly is recommended.
 - Third-party console: Connect the console via the "CAN" port. See "EcoFlow J1939 / RV-C / NMEA 2000 Support" for details.
4. Use an RJ45 splitter (sold separately), and plug the termination resistor on the end of the communication line, as shown below.



5. Connect with sensors

a. Push in the orange tab with your hand or a slotted screwdriver, and insert the wire (0.2-1 mm²/28-16 AWG) with a ferrule or exposed copper end of 8-9 mm (0.3-0.35") into the terminal block.

b. Plug the terminal block into the connector and make sure the terminal block is installed properly.

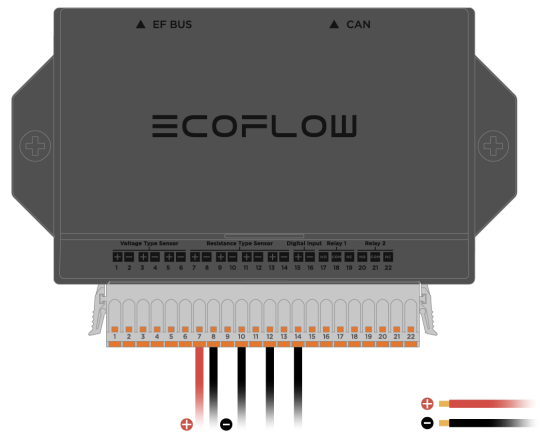


6. Carry out configuration and calibration for sensors in the EcoFlow app. See "Setting sensors in the App" for details.

More Connection

4-wire RTD Level Sensor

conductors to "8", "10", "12", "14" ("-") connectors in turn, as shown below.



Refer to the user manual of your 4-wire RTD level sensor for specification and connection.

Engine or Generator Auto Start/Stop

Connect your devices to "COM", "NO", or "NC" on Relay 1 or Relay 2 of EcoFlow Power Link, depending on whether normally open or normally closed is required.

The maximum voltage

supported is 42.5V DC. The maximum current is 1.75A.

- Set the SOC start/stop time for the quiet hour in

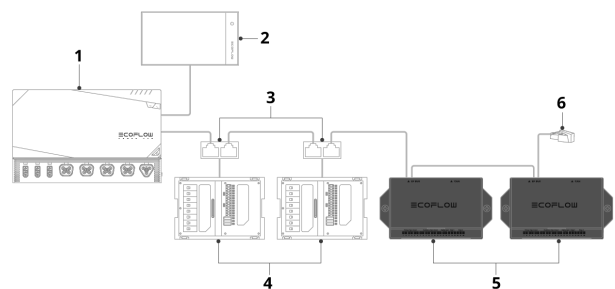
Settings > More > Relay settings.

Wire 2 EcoFlow Power Link in your System

For Power Hub 3.6kVA, connecting only one EcoFlow Power Link is supported.

For Power Hub 5kVA, connecting up to two EcoFlow Power Link is supported.

The wiring diagram is shown below.



1 EcoFlow Power Hub series

2 EcoFlow PowerInsight series (EcoFlow Power Kit Console)

-
- 3 RJ45 splitter
 - 4 EcoFlow Smart Distribution Panel series
 - 5 EcoFlow Power Link
 - 6 Termination resistor

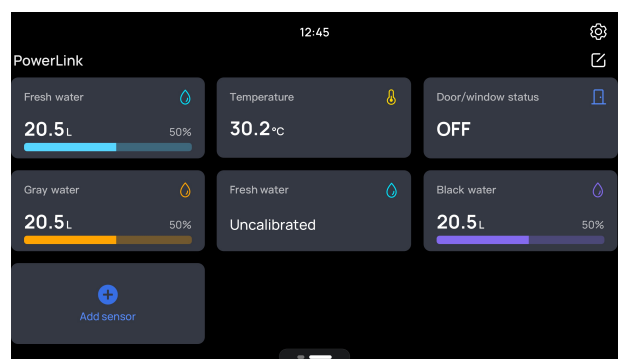
Setting Sensors in the App

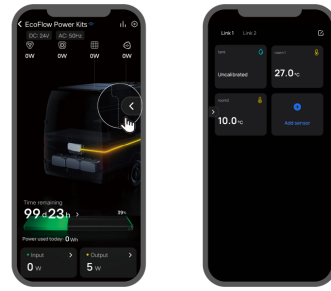
Make sure the firmware of your Power Kits system is up to date and the network is working properly.

After connection, add and calibrate sensors on the Power Kits system page in the EcoFlow app. You can also carry out the configuration in EcoFlow Power Kit Console.

On the console:

Swipe left on the home page to go to the Sensors page.





Water tank level sensor

Voltage-type, resistance-type, and 4-wire RTD water tank level sensors are supported. The following instruction is an example of adding a voltage-type level sensor.

Add the sensor

1. Tap **Add sensor** to enter the settings page.
2. Select **Voltage** for sensor type, and configure the connection point, detected property, capacity, and water tank type*.

*Water tank type includes fresh water, gray water, black water

Calibration

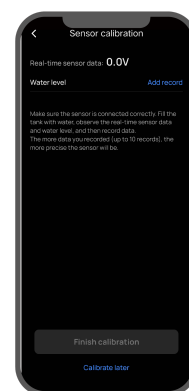
Incremental or decremental calibration of the water level establishes a linear relationship between the water level and voltage.

In addition to the water level values 0% and 100%, at least one other water level value needs to be added. The more data you record (up to 10 records), the more precise the sensor will be.

You can choose either 0% or 100% for

1. Tap **Calibration status** on the sensor page to calibrate your water tank.
If you are familiar with your sensor, you can fill in the sensor value directly. If not, perform the following steps to calibrate.
2. Select the initial water level 0%.
Empty the tank. The voltage value V1 will be displayed in the app.
3. Fill in a new water level in the app and pour water into the tank to the corresponding volume. The voltage value V2 will be displayed.
4. Repeat step 3 for subsequent water levels until the tank is filled to 100%, and voltage values V3, V4, and so forth will be recorded.
5. Tap **Finish calibration**.

The 4-wire RTD level sensor requires no calibration and can be used directly after adding it to the app.



Temperature sensor

Add the sensor

1. Tap **Add sensor** to enter the setting page.
2. Select **Resistive** for sensor type, and configure the connection point, detected property and resistor type. Default B values for each resistor type:

Resistor Type	B Value
NTC 1K Ω	3470K
NTC 5K Ω	3470K
NTC 5K Ω	3435K
Custom 1-10K Ω	2000K-5000K recommended

Refer to the sensor's technical specifications to determine the resistor type.

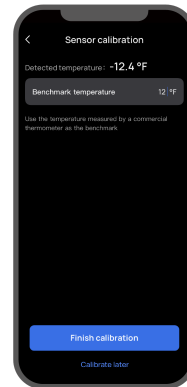
Calibration (Optional)

To ensure accuracy, real-time temperature data is combined with the deviation from a commercial thermometer to give the correct temperature after calibration.

To calibrate the sensor:

1. Tap **Calibration status** to calibrate your temperature sensor.
2. Fill in the value of your commercial thermometer.

is displayed. Go back to the sensor home page, and you can see the correct temperature with the temperature deviation added.



Digital Input

Door and window motion sensors are supported to be connected.

Add the sensor

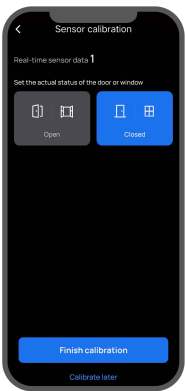
1. Tap **Add sensor** to enter the setting page.
2. Select **Digital Input** for sensor type, and configure the connection point and detected property.

Calibration

Establish the real-time data "0" or "1" denoting the physical state of the door/window as open or closed to complete the calibration.

To calibrate the sensor:

1. Tap **Calibration status** to calibrate your temperature sensor.
2. According to the physical state of the actual door or window, select **OPEN**



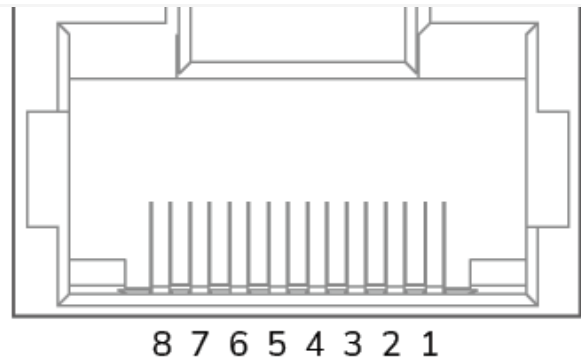
EcoFlow J1939 / RV-C / NMEA 2000 Support

EcoFlow Power Link supports RV-C, NMEA 2000, EcoFlow J1939 communication.

Before communication, switch the protocol type and set pins for the RJ45 connector of the network cable.

The toggle switch is located on the side of the "CAN" port.

Protocol	EcoFlow J1939	RV-C	NMEA 2000	/
Switch 1	OFF	OFF	ON	ON
Switch 2	OFF	ON	OFF	ON



Pin	Definition
1	CAN_H Bus Line
2	CAN_L Bus Line
3	CAN_GND
4-8	Reserved

CAN_H = 3.5V, CAN_L = 1.5V, Vdiff = 2.0V

EcoFlow J1939

The EcoFlow J1939 is an EcoFlow-defined communication protocol based on SAE J1939.

To use the EcoFlow J1939 protocol, click [here](#) to download the protocol for details.

NMEA 2000

The NMEA 2000 protocol, also known as N2K, is a Marine CAN-bus protocol, based on SAE J1939. It's a plug-and-play communications standard used for

RV-C

The RV-C (Recreation Vehicle-CAN) protocol is a communication protocol based on CAN-bus (Controller Area Network bus) and SAE J1939 and used primarily in RVs in the US to enable RV devices and appliances to communicate and work together.

There are 2 basic functions, RV-C out and RV-C in.

- *RV-C out* allows control and monitoring of compatible EcoFlow Power Kit devices from an RV-C console.
- *RV-C in* allows receiving data from one or more compatible RV-C devices to be displayed on EcoFlow PowerInsight (EcoFlow Power Kit Console). Firmware Update

[48V Secondary Alternator Connection and Setting_Diagram PDF Download](#)

Firmware Update

The update package of Power Link is included in the update package of Power Hub.

To update Power Link:

1. Connect with Power Hub and turn on the power of Power Hub. Make sure

-
2. Go to the Power Kits system page in the EcoFlow app, and tap **Settings** > **Firmware update**.

Technical Specifications

General

Model	EF-PK-O05-1
Weight	Approx. 120 g (0.26 lb)
Dimensions	137×31×74 mm (5.4×1.2×2.9 in.)
EF BUS Input	12V $\overline{=}$ 1.5A Max
EF BUS Output	12V $\overline{=}$ 1.33A Max

Environment

Operating Humidity	0% to 95% RH (non-condensing)
Operating Temperature	−25°C to 50°C (−13°F to 122°F)
Storage Temperature	−25°C to 70°C (−13°F to 158°F)
Altitude	≤ 3,000 m (9,842 ft)
IP Rating	IP20

Voltage Type Sensor

Number of Inputs	3
------------------	---

Range	0-35V $\overline{=}$
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Resistance Type Sensor

Number of Inputs	4
------------------	---

Range	10 Ω -100 k Ω
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Digital Input

Number of Inputs	1
------------------	---

Relay

Number of Inputs	2
------------------	---

Max. Voltage	42.4V $\overline{=}$
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Max. Current	1.75A
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What's in the Box

- EcoFlow Power Link
- Terminal block (×1)
- Screws ST4.2x19 mm (×4)

Safety Instructions and Compliance

1. Do not disassemble this product in any way or pierce it with sharp objects.
2. Do not stack other objects on this product.
3. Avoid impacts, falls, or severe shaking when using the product. In case of a severe external impact, turn off the power supply immediately and stop using the product.
4. Ensure the product is well fastened during transportation and usage to avoid shaking and impacts.
5. If there is dirt on the ports of the product, clean them with a dry cloth.
6. Keep this product out of reach of children and pets.
7. The product is not waterproof, avoid exposing it to water.

Safety Instructions

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

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/>.

Regulatory Compliance

FCC Compliance Statement

Note: 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 or more of the following measures:

- Reorient or relocate the receiving antenna.

-
- 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.

IC Compliance Statement

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-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.

L'appareil contient un émetteur / récepteur exempté de licence conforme au CNR exempté de licence d'innovation, sciences et développement économique Canada. Les opérations sont soumises aux deux conditions suivantes:

- (1) Cet appareil ne peut pas causer d'interférences.
- (2) L'appareil doit accepter toute interférence, y compris celles qui peuvent entraîner un fonctionnement indésirable de l'appareil.

type EcoFlow Power Link is in compliance with CE. The full text of the EU declaration of conformity is available at the internet address:
<http://www.ecoflow.com/eu/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.