# USER MANUAL

**V1.0**

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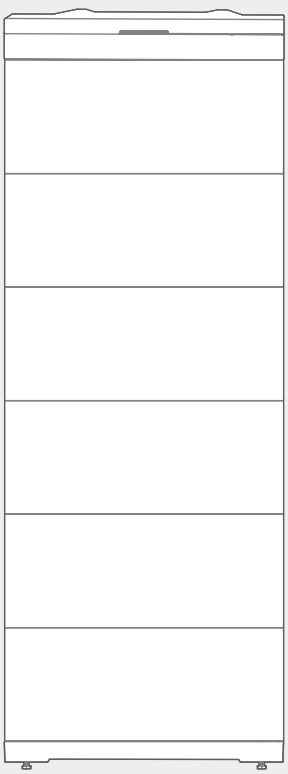
## EcoFlow OCEAN 2 LFP Battery 5 kWh



**IMPORTANT**

- Before installing, operating, and maintaining the equipment, read and follow Installation Guide.

# CONTENTS

# About this Manual

## DISCLAIMER

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

## INTENDED USE

This document complements the product's Installation Guide. While the Installation Guide offers instructions for the installation and initial setup of the product, this document provides general instructions of product installation and use.
Please note that all illustrations in this manual are for demonstration only and may vary from the actual product due to regions and firmware versions.

## INTENDED USER

This document is intended for qualified persons and end users. Please note that only qualified persons are allowed to perform professional or skilled work on the equipment, such as installation, maintenance, or other electrical operations.

# Safety Instructions

## SYMBOL CONVENTIONS

The following table describes the symbol conventions used in this document. Please note that all the instructions and cautions on the equipment or in related documents are only supplements to local laws and regulations.

| Symbol | Description |
|---|---|
| DANGER | Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury. |
| WARNING | Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury. |
| CAUTION | Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury. |
| NOTICE | Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results.<br>**NOTICE** is used to address practices not related to personal injury. |
| | Indicates additional information that promotes understanding of the product or a topic. |

## GENERAL REQUIREMENTS

**DANGER**

- Do not work with power on during installation.

**CAUTION**

- The battery must only be operated with EcoFlow Hybrid Inverter (Single/Three-Phase). The customer or a third party is not allowed to use the batteries beyond the inverters specified by EcoFlow.
- The customer or a third party is not allowed to use the batteries beyond the scenarios specified by the Company: such as connecting extra loads to the battery, or using with other batteries, including but not limited to batteries of other brands, or batteries of different rated capacities, etc.

Do not touch the exposed cable with your hands.

1. Make sure the cables, connectors and ports are dry before starting up the battery. Make sure all three are connected securely.
2. After installing the equipment, remove the remnants of the device installation area, such as cardboard boxes, foam, plastic, wire ties, stripped insulation materials, etc.
3. All warning label and nameplates on the equipment should be visible after installation is complete. Do not scrawl, damage, or block any warning label on the device.
4. Do not reverse engineer, decompile, disassemble, adapt, add code to the device software or alter the device software in any other way. Any other operation that violates the original design specifications of the device hardware and software is not allowed.
5. If there is a probability of personal injury or equipment damage during operations on the equipment, immediately stop the operations, take feasible protective measures.
6. Use insulated tools when operating equipment and wear personal protective equipment to ensure personal safety. Wear anti-static gloves, clothing and wristbands when touching electronic devices to protect equipment from damage.
7. Prior to performing any work on the equipment, always disconnect it from all voltage sources as described in the installation guide. Always adhere to the prescribed sequence.
8. Before installing PV modules, please read its user manual carefully.

## PERSONNEL REQUIREMENTS

1. Personnel who plan to install or maintain EcoFlow equipment must receive thorough training, understand all necessary safety precautions, and be able to correctly perform all operations.
2. Only qualified professionals are allowed to install, operate, and maintain the equipment.
3. Personnel who will operate the equipment, including operators, trained personnel, and professionals, should possess the local national required qualifications in special operations such as high-voltage operations, working at heights, and operations of special equipment.

- Professionals: personnel who are trained or experienced in equipment operations and are clear of the sources and degree of various potential hazards in equipment installation, operation, and maintenance.

## ELECTRICAL SAFETY

### GROUNDING

1. For the equipment that needs to be grounded, install the ground cable first when installing the equipment and remove the ground cable last when removing the equipment.
2. Ground the junction box for cascading batteries.
3. Do not damage the ground conductor.
4. Do not operate the equipment in the absence of a properly installed ground conductor.
5. Ensure that the equipment is connected permanently to the protective ground. Before operating the equipment, check its electrical connection to ensure that it is securely grounded.

### GENERAL REQUIREMENTS

**⚠ DANGER**

- Before connecting cables, ensure that the equipment is intact. Otherwise, electric shocks or fire may occur.

1. Ensure that all electrical connections comply with local electrical standards.
2. Obtain approval from the local electric utility company before using the equipment in grid-tied mode.
3. Ensure that the cables installer prepared meet local regulations.
4. Before connecting a power cable, check that the label on the power cable is correct. When fabricating cables and installing connectors on site, follow the respective instructions in this manual and the requirements of local laws and regulations.
5. Before operating the equipment, disconnect all power to the equipment and wait for the corresponding delayed discharge time to ensure that the equipment is completely deenergized.

### CABLING

1. The cabling path must avoid the equipment cooling system and parts.
2. When routing cables, ensure that a distance of at least 30 mm exists between the cables and heat-generating components or areas. This prevents damage to the insulation layer of the cables.
3. Bind cables of the same type together. Mutual entanglement or cross-deployment is not allowed.

## INSTALLATION ENVIRONMENT REQUIREMENTS

1. The installation and use environment must meet relevant international, national, and local standards for lithium batteries, and are in accordance with the local laws and regulations.
2. Ensure that the battery is not accessible to children and away from daily working or living areas,
3. When installing the battery in a garage, keep it away from the drive way.
4. Install the battery in a dry and well-ventilated environment. Secure the battery on a solid and flat surface.
5. Install the battery in a sheltered place or install an awning over it to avoid direct sunlight or rain.
6. Install the battery in a clean environment that is free from sources of strong infrared radiation, organic solvents, and corrosive gases.
7. For areas prone to natural disasters such as floods, debris flows, earthquakes, and typhoons/hurricanes, take corresponding precautions for installation.
8. Keep the battery away from fire sources and heat sources. Do not place any flammable or explosive materials around the battery.
9. Keep the battery away from water sources such as taps, sewer pipes, and sprinklers to prevent water seepage.
10. Do not install the battery in a position where it is easy to touch as the temperature of the chassis and heat sink is high when the battery is running.
11. To prevent fire due to high temperature, ensure that the vents and the cooling system are not blocked when the battery is running.
12. Do not expose the battery to flammable or explosive gas or smoke. Do not perform any operation on the battery in such environments.
13. This battery is designed for residential scenarios. Do not install the battery on a moving object, such as ship, train, or car.
14. In backup power scenarios, do not use the battery for the following situations:
    - Medical devices substantially important to human life
    - Control equipment such as trains and elevators, which may cause personal injury
    - Computer systems of social and public importance
    - Other devices similar to those described above
15. Do not install the battery outdoors in salt-affected or the sand areas because it may corrode. A salt-affected area refers to the region within 500 meters from the coast or prone to sea breeze.
16. The operation and service life of the battery depend on the operating temperature. Install the battery at a temperature equal to the ambient temperature.
17. The operating temperature of the battery ranges from –20°C to +55°C. If the battery is installed in a cold environment, the built-in thermal control system starts to heat the battery to achieve better performance. The heating process consumes rechargeable power, which reduces the system energy efficiency for a short time in cold weather.
18. If the battery is stored in a cold environment (for example, 0°C) before installation, the battery needs some time (< 30mins) to heat up before it can be charged.
19. When the ambient temperature of the battery is higher than +40°C or lower than 0°C, the battery charge and discharge power will be derated.

## BATTERY SAFETY

1. After system installing and connecting electrical, power on the battery system in a timely manner to avoid capacity loss or irreversible damage to the batteries.
2. Correctly set the battery operation management parameters.
3. Battery operating environment or external power parameters MUST meet environment requirements: such as the actual operating temperature of the battery meets the specifications; the power grid is stable, etc.) to avoid damage to the battery.
4. Batteries shall not be frequently over-discharged.
5. Batteries shall be correctly expanded.
6. Batteries shall not fully charged for a long time.
7. Maintain batteries based on the this manual, such as check battery terminals regularly.
8. Do not use batteries that have exceeded the warranty period.
9. Do not expose batteries at high temperatures or around heat-generating sources. The battery may cause a fire if overheated.
10. Do not disassemble, alter, or damage batteries. For example, do not insert foreign objects into batteries or place batteries in water or other liquids.
11. The fire hazard of the battery energy storage system is high. Consider the following safety risks before handling batteries:
    - Battery electrolyte is combustible, toxic, and volatile.
    - Battery thermal runaway can generate flammable gas and harmful gas such as CO and HF.
    - The concentration of flammable gas generated from battery thermal runaway may cause deflagration and explosion.
12. Obvious battery abnormalities, such as electrolyte leakage and structural deformation, indicate potential safety risks. Contact your installer or professional personnel to remove and replace the battery.
13. The batteries must be stored separately inside the packaging. Do not store batteries together with other materials or in the open air.
14. Do not remove the battery packaging before use.
15. Move batteries in the correct direction. Do not place a battery upside down or tilt it.
16. Protect batteries from impact.
17. Do not perform welding or grinding work around batteries to prevent fire caused by electric sparks or arcs.
18. Do not use damaged batteries (such as damage caused when a battery is dropped, bumped, or dented on the enclosure). Damaged batteries may release flammable gases. Do not store damaged batteries near undamaged products.
19. Do not place damaged batteries in close proximity to flammable materials. Do not approach the damaged batteries unless you are a professional.
20. Monitor damaged batteries during storage for signs of smoke, flame, electrolyte leakage, or heat.
21. Do not place irrelevant objects on the top of the equipment or insert them into any position of the equipment.
22. To prevent electric shock, remove any metal objects from yourself before operating batteries, such as watches and rings.
23. Do not place the battery module in a fire, water or other liquids.
24. Do not use water to clean electrical components of the equipment.

### BATTERY EMERGENCY MEASURES

1. Avoid contact with leaked liquids or gases in the case of battery leakage or abnormal odor. Do not approach the battery. Contact professionals immediately. Professionals must wear safety goggles, rubber gloves, gas masks, and protective clothing.
2. Electrolyte is corrosive and can cause irritation and chemical burns. Should you come into direct contact with the battery electrolyte, do as follows:
    - Inhalation: Evacuate contaminated areas, get fresh air immediately, and seek immediate medical attention.
    - Eye contact: Immediately flush your eyes with water for at least 15 minutes, do not rub your eyes, and seek medical attention immediately.
    - Skin contact: Wash the affected areas immediately with soap and water and seek medical attention immediately.
    - Ingestion: Seek immediate medical attention.
3. If the battery catches fire, extinguish the fire with sand, carbon dioxide, or wet chemical fire extinguisher.
4. Do not contact with high-voltage components during fire fighting to prevent the risk of electric shock.
5. If any part of the batteries is submerged in water, do not touch the batteries to avoid electric shock.
6. Do not use batteries that have been soaked in water. Contact a battery recycling company for disposal.
7. If a battery pack is dropped or violently impacted during installation, internal damage may occur. Do not use such battery packs; otherwise, safety risks such as cell leakage and electric shock may arise. Contact the professionals to transfer the battery to an open and safe place, or contact a recycling company for disposal.

## TRANSPORTATION REQUIREMENTS

1. The batteries cannot be transported by rail or air.
2. Comply with maritime transport & road transport rules.
3. Protect the packing case with the product from the following situations:
   - Being dampened by rains, snows, or falling into water
   - Falling or mechanical impact
   - Being upside-down or tilted.

## EQUIPMENT AND PERSONNEL SAFETY REQUIREMENTS

### MOVING THE EQUIPMENT

1. When moving the battery by hand, wear protective gloves to prevent injuries.
2. When moving the batteries, both hands should hold the handle at the top of the battery firmly, do not put your hands at the bottom of the battery when the batteries are being stacked and installed, otherwise, it may crush your hands.
3. Move the batteries with precaution as the battery modules are heavy.

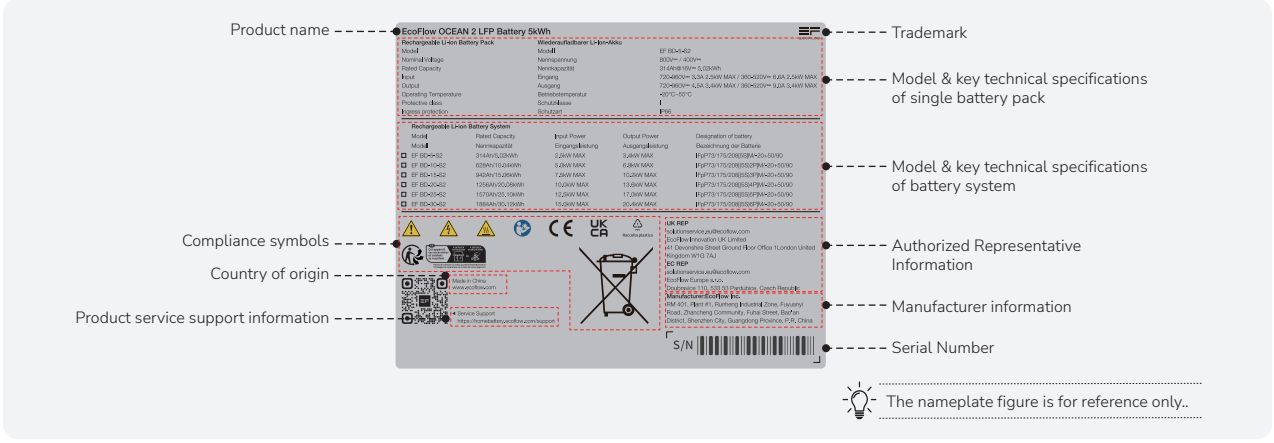
### DRILLING HOLES

1. Wear goggles and protective gloves when drilling holes.
2. When drilling holes, protect the equipment from shavings or dust. After drilling, clean up any shavings or dust that have accumulated at the installation site in a timely manner, otherwise, it may block the drilled hole.

## DISPOSAL

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

## PRODUCT NAMEPLATE




## ENCLOSURE LABEL DESCRIPTION

The nameplate is located on the side of the equipment enclosure.

| Icon | Name | Meaning |
|---|---|---|
| | Caution | Caution, risk of danger. |
| | Eletric shock warning | Caution, risk of eletric shock. |
| | Burn warning | Do not touch a running equipment because the enclosure is hot when the equipment is running. |
| | Refer to documentation | Reminds operators to refer to the documents delivered with the equipment. |
| | Grounding | Indicates the position for connecting the protective earthing (PE) cable. |
| | Symbol of a crossed-out trash can | WEEE designation<br>Do not dispose of the product together with the household waste but in accordance with the disposal regulations for electronic waste applicable at the installation site. |
| CE | CE marking | The product complies with the requirements of the applicable EU directives. |

- The labels are for reference only.

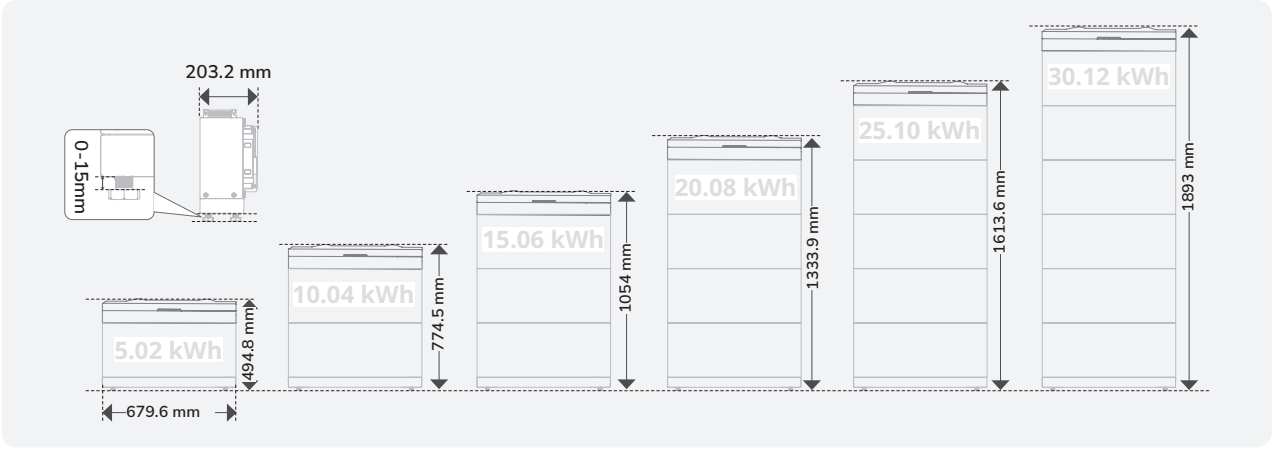
# Product Introduction

## FUNCTION

This battery system consists of a battery junction box, battery expansion modules and a battery base. It can store and release electric energy based on the requirements of the inverter management system. The input and output ports of the battery are high-voltage direct current (HVDC) ports.
**Battery charge:** For modular separated inverter, the junction box connects to the battery terminals (BAT+ and BAT–) of the inverter; for integrated stackable inverter, the junction box is not required. Under the control of the inverter, the system charges the batteries and stores excessive PV energy in batteries.
**Battery discharge:** When the PV energy is insufficient to supply power to the loads, the system controls the batteries to supply power to the loads. The battery energy is output to the loads through the inverter.

## BATTERY CAPACITY DESCRIPTION

The battery supports power and capacity expansion. Up to 3 junction boxes can be connected in parallel. One junction box supports a maximum of 6 battery expansion modules.

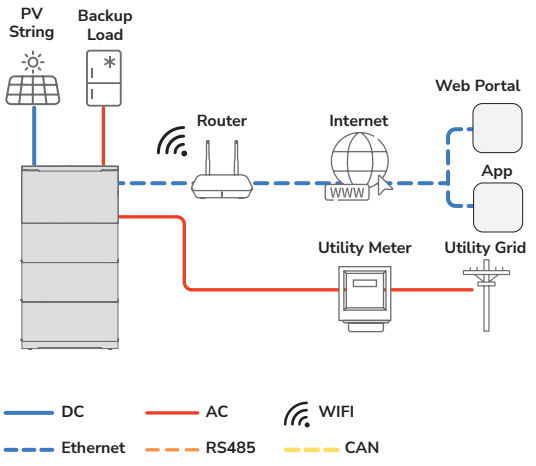



## NETWORKING APPLICATION

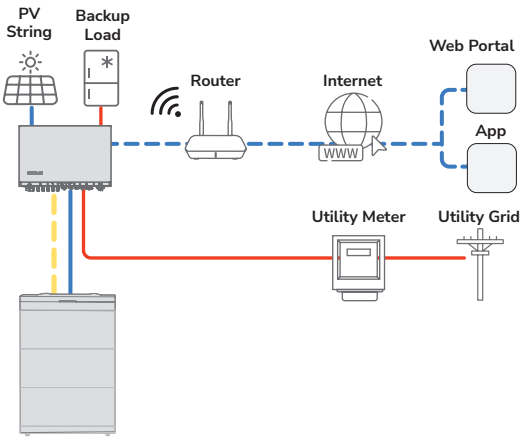
EcoFlow OCEAN 2 LFP Battery 5 kWh is a parallel connected high voltage battery system, compatible with our three-phase / single-phase hybrid inverters, such as:

- EcoFlow OCEAN 2 Hybrid Inverter Three-Phase
- EcoFlow OCEAN 2 Plus Hybrid Inverter Single-Phase
- EcoFlow PowerOcean Three-Phase Hybrid Inverter
- EcoFlow PowerOcean Single-Phase Hybrid Inverter
- EcoFlow OCEAN 2 Single-Phase Hybrid Inverter
- EcoFlow PowerOcean Plus Three-Phase Hybrid Inverter

OPTION 1: WITHOUT BATTERY JUNCTION BOX

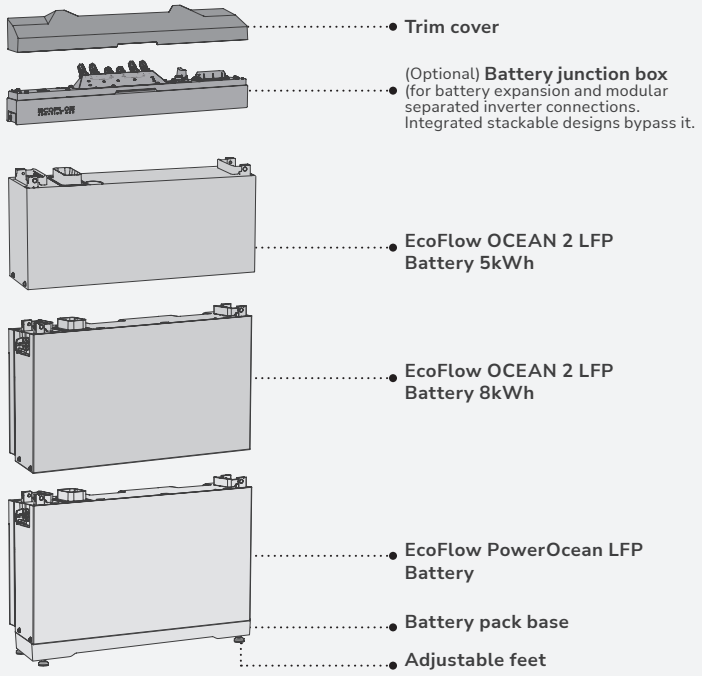



OPTION 2: WITH BATTERY JUNCTION BOX



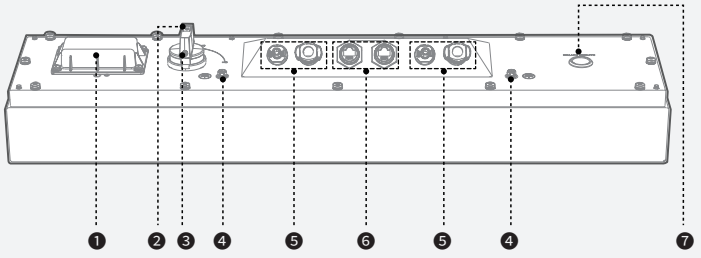
## HYBRID STACKING OF ECOFLOW OCEAN 2 LFP BATTERY AND ECOFLOW POWEROCEAN LFP BATTERY

EcoFlow OCEAN 2 LFP Battery 5 kWh is compatible with EcoFlow PowerOcean LFP Battery; both the OCEAN 2 Battery and the PowerOcean Battery support power expansion, capacity scaling, and mixed stacking installation.



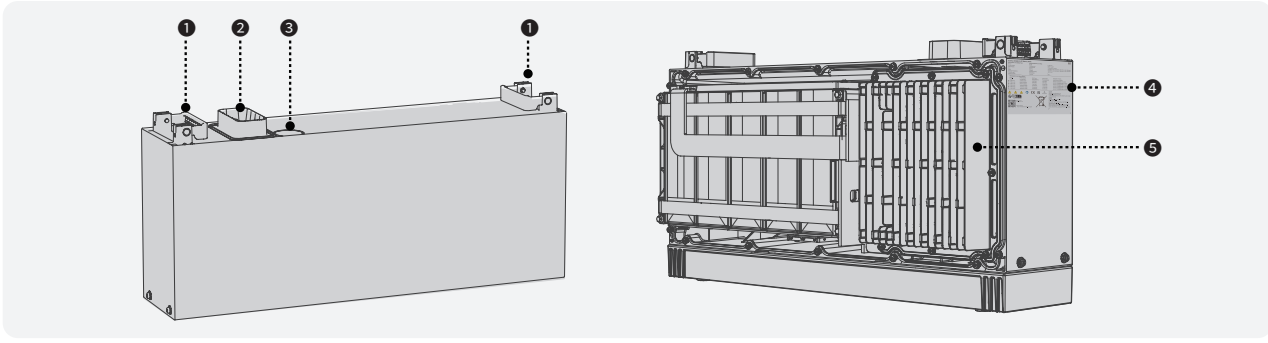

## APPEARANCE OVERVIEW

ECOFLOW BATTERY JUNCTION BOX



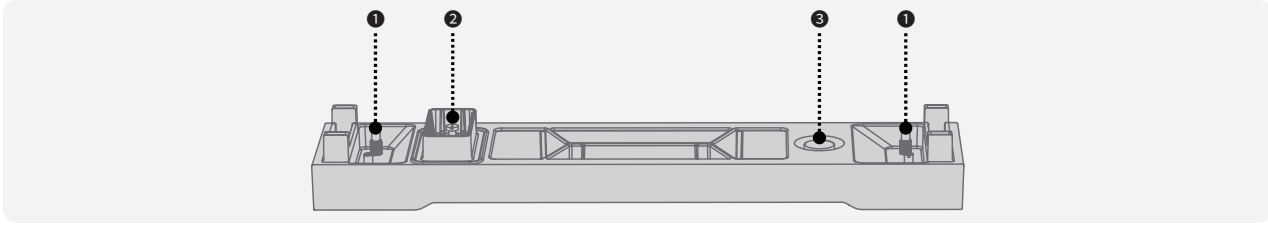

| No. | Part Name | Description |
|---|---|---|
| 1 | Fuse | See the section **Replacing a Fuse** |
| 2 | Lock hole button | press and hold to reveal the lock hole and lock to prevent accidental startup. |
| 3 | BATTERY SWITCH | Used for battery-inverter connection control (disconnect/reconnect) |
| 4 | Ground point | Used for connecting ground wire. |
| 5 | Battery terminal (BAT-/BAT+) | Used for battery power cable connection |
| 6 | Communication port (B-COM) | Used for communication between battery junction box and inverter. |
| 7 | BATTERY ON/OFF | Press and hold for 10 seconds to turn on (Battery Black Start) /off the batteries. |

ECOFLOW OCEAN 2 LFP BATTERY




| No. | Part Name | Description |
|---|---|---|
| 1 | Handles | Hold the handles to move the battery |
| 2 | Click-on terminal | Stacking terminal |
| 3 | Pressure release valve | Designed to automatically release excess gas, steam, or liquid from a battery when pressure exceeds predetermined, safe limits. By venting this pressure, it prevents equipment failure, explosions, or damage caused by over-pressurization in battery systems. It remain closed until pressure rises too high, forcing them open. |
| 4 | Nameplate | Containing essential information including brand, model, serial number, technical specifications, safety instructions, and regulatory compliance certifications. |
| 5 | Radiator grille | Designed to allow airflow for cooling the battery.Do not touch the radiator grille, as it may get hot when the battery is running. |

ECOFLOW OCEAN 2 LFP BATTERY BASE




| No. | Part Name | Description |
|---|---|---|
| 1 | Adjustable feet | Used for leveling the base |
| 2 | Click-on terminal | Stacking terminal |
| 3 | Spirit Level | Used to determine if the base is perfectly horizontal. |

## FEATURES

MULTI-SCENARIO AND MULTI-WORKING MODE
- Supports multiple working modes such as grid-tied, power backup scenario, self-consumption mode.
- Allows users to query the total discharge capacity in the product life cycle in real time.

INTELLIGENT AND SIMPLE OPERATION
- Works with the inverter, supports plug-and-play, and integrates the mobile phone app.

EASY INSTALLATION AND REPLACEMENT
- Standard battery DC terminals are used for system connection.
- Modular design is adopted for batteries, which are stacked and connected without external cables.
- Modular design is adopted for battery junction box, which is designed for easy connection to the inverter.
- Sleek Design saves installation space.

FLEXIBLE SCALABILITY
- The battery system supports power expansion, battery capacity expansion, and hybrid use of old and new batteries.
- The battery system supports isolation of failed battery modules to ensure that the energy storage system can still operate normally.

INTELLIGENT OPERATION AND MAINTENANCE
- The factory defaults meet the requirements of target markets and the battery can be started by pressing only one button and supports black startup.
- The LED indicator shows the status. You can also use the EcoFlow app to perform local and remote operations and manage the battery anytime and anywhere.

SAFE AND EFFICIENT
- BMS module is embedded within every battery pack, achieving a compact design with no extra power module on top of batteries.
- Active aerosol fire protection module in every battery pack to secure maximum safety.

# System Installation

**⚠ CAUTION**

- Only qualified professionals are allowed to install, operate, and maintain the equipment.

Refer to Installation Guide delivered with the equipment for installation, or download the guide at https://energy.ecoflow.com/documentation

Installation procedure and the corresponding section is shown below

| Step | Section in the Installation Guide |
|---|---|
| Installation site survey | Installation Environment Requirements |
| | Installation Space Requirements |
| Installation of LFP batteries and the inverter | Installing Battery |
| | Installing Inverter |
| Wiring | Connecting PE Cables |
| | Connecting PV Input Cables |
| | Connecting GRID/BACKUP Cables |
| | Cascading Batteries |
| | Connecting Smart Mater |
| Internet access | Connecting to Internet |
| Installation completion | Installing trim cover on the battery junction box and inverter |
| Installation review | Checking before Power-On |
| Electrical energization and LED indicator check | System Power-On |
| | System Power-Off |
| | LED Indicators |
| System commissioning via the EcoFlow Pro app | System Commissioning |

# System Operation

**⚠ CAUTION**

- Only qualified professionals are allowed to install, operate, and maintain the equipment.

## SYSTEM POWER-ON

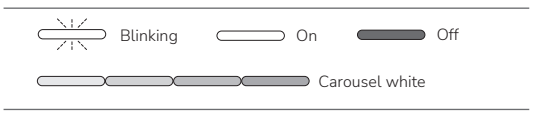
- **Procedure (PV module configured)**

1. Set the BATTERY SWITCH (Australian and French version only) to ON position.
2. Set the PV SWITCH to ON position.
3. Turn on the AC switch between the inverter and the power grid.
4. Observe the LED to check the operating status.

- **Procedure (no PV module configured and no grid power)**

1. Set the BATTERY SWITCH (Australian and French version only) to ON position.
2. Set the PV SWITCH to ON position.
3. Turn on the AC switch between the inverter and the power grid.
4. After commissioning, press and hold for 10 seconds the BATTERY ON/OFF button.
5. Observe the LED to check the operating status.

- Suitable for applications with battery junction box.




| Charge Status | Description |
|---|---|
|  | 0-25% |
|  | 25-50% |
|  | 50-75% |
|  | 75-99% |
|  | 100% |
| **Firmware Upgrading Status** | **Description** |
|  | Firmware Upgrading is in progress |

| Discharge Status | Description |
|---|---|
|  | <5% |
|  | 5-25% |
|  | 25-50% |
|  | 50-75% |
|  | 75-100% |
| **Faulty Status** | **Description** |
|  | Electrical connection is faulty |
|  | Communication is faulty |
|  | Battery is faulty |
|  | Battery junction box is faulty |

# System Maintenance

**⚠ WARNING**

- Only qualified professionals are allowed to install, operate, and maintain the equipment.
- Before maintaining the equipment, power it off and follow the instructions on the delayed discharge label to ensure that the equipment is powered off.
- (Optional) After setting the BATTERY SWITCH on the top of the battery junction box to OFF position, it should be locked to prevent accidental startup.
- Before moving or reconnecting the equipment, disconnect the mains and batteries and wait for five minutes until the equipment powers off. Before maintaining the equipment, check that no dangerous voltages remain in the DC terminals to be maintained by using a multimeter.
- Place temporary warning signs or erect fences to prevent unauthorized access to the maintenance site.
- If the equipment is faulty, contact your dealer.
- The equipment can be powered on only after all faults are rectified. Failing to do so may escalate faults or damage the equipment.
- Maintenance personnel must be trained to operate and maintain the equipment safely and correctly, take comprehensive precautionary measures, and be equipped with protective instruments.
- When replacing batteries, replace them with batteries or battery strings of the same type.
- Take out all tools and parts from the equipment after maintenance is complete.
- When not in use for extended periods, store and recharge batteries according to this document.

## SYSTEM POWER-OFF

**⚠ WARNING**

- After the inverter powers off, the remaining electricity and heat may still cause electric shocks and body burns. Therefore, put on protective gloves and begin operating the equipment five minutes after the power-off.

1. Tap shutdown command via the app.
2. Turn off the AC switch between the inverter and the power grid.
3. Set the PV SWITCH to OFF position.
4. (Optional) Secure the PV SWITCH with a lock to prevent accidental startup. The lock is prepared by the customer.
5. Set the BATTERY SWITCH (Australian and French version only) to OFF position.
6. (Optional) Secure the BATTERY SWITCH (Australian and French version only) with a lock to prevent accidental startup. The lock is prepared by the customer.
7. Press and hold the BATTERY ON/OFF button for 10 seconds, until the indicator is off.
8. Sequentially disconnect GRID cables, PV input cables, battery cables, communication cables and all modules connecting to the system.

## ROUTINE MAINTENANCE

To ensure the long-term operating of the equipment, you are acdvised to perform routine maintenance according to this section.

**⚠ WARNING**

1. Power off the system and follow the instructions on the delayed discharge label to ensure that the equipment is powered off.
2. Wear proper PPE before any operations.

| Check Item | Check Method | Power off or not | Maintenance Cycle |
|---|---|---|---|
| System cleanliness | • Periodically check that the heat sinks are free of dust and obstructions, and ensure proper ventilation and heat dissipation for the equipment.<br>• Clean the equipment surface with a dry, soft cloth if there is dust or dirt. Do not use liquids, abrasive materials, or hard objects for cleaning. | Yes | Once every 6 months |
| System running status | • Check that the equipment is not damaged or deformed.<br>• Check that the equipment operates with no abnormal sound.<br>• Check that all equipment parameters are correctly set during operation.<br>• Check for abnormal noise from the fan during operation and ensure that there are no objects obstructing the fan. If foreign objects are found, remove them. | No | Once every 6 months |
| Electrical connection | Check that all cables are properly secured and undamaged. | Yes | Check once every 6 months after creating new systems and once every 6 to 12 months thereafter |
| Grounding reliability | Check that ground cables are securely connected. | Yes | |
| Seal ability | Check that all unused terminals and ports are properly sealed with waterproof covers as supplied. | Yes | |

## BATTERY STORAGE REQUIREMENTS

**FOR INSTALLER**

- Place batteries according to the signs on the packing case during storage. Do not put batteries upside down or sidelong.
- Stack battery packing cases by complying with the stacking requirements on the external package.
- Handle batteries with caution to avoid damage.
- The storage environment requirements are as follows:

- Ambient temperature: -25°C-60°C; recommended storage temperature: 0°C-35°C
- Relative humidity: 0% to 100%
- Place batteries in a dry and clean place with good ventilation.
- Place batteries in a place that is away from corrosive organic solvents and gases.
- Keep batteries away from direct sunlight.
- Keep batteries at least 3 meters away from heat sources and vibration source.

- The batteries in storage must be disconnected from external devices. The indicators on the battery junction box should be off.
- If a dropped battery has obvious deformation, leakage or damage and no abnormal odor, smoke, or fire occurs, contact the professionals to transfer the battery to an open and safe place, or contact a recycling company for disposal.

**FOR HOMEOWNER**

- If the battery is not used for a long period of time, it is recommended to be stored intact in a semi-charged state (60% SOC). The battery is recommended to be discharged to 30% and then recharged to 60% every three months.
- If the power level of the battery is lower than 1% after use, recharge it to 30%-60% before storage. If the battery has been idle for a long time when the power is seriously insufficient, it will cause irreversible damage to the cells and shorten the service life of the battery.
- If the battery has been idle for a long time and the power level is severely low, it will enter a deep sleep protection mode. In such a case, recharge the battery before using it again.

## BATTERY RECHARGE REQUIREMENTS

**⚠ WARNING**

- Battery recharge operations should be carried out by EcoFlow only. Please contact the EcoFlow technical support team for battery recharge service.

## REPLACING A FUSE

The Battery junction box has a built-in 1500 Vd.c./32A replaceable fuse. Under normal operating conditions, there is no risk of fuse blowing. When an external short circuit occurs and the battery management system is not protected in time, the fuse will blow immediately to protect the battery. When a short circuit occurs and the battery cannot be charged or discharged, the fuse must be replaced. Replacement procedure is as follows:

**NOTICE**

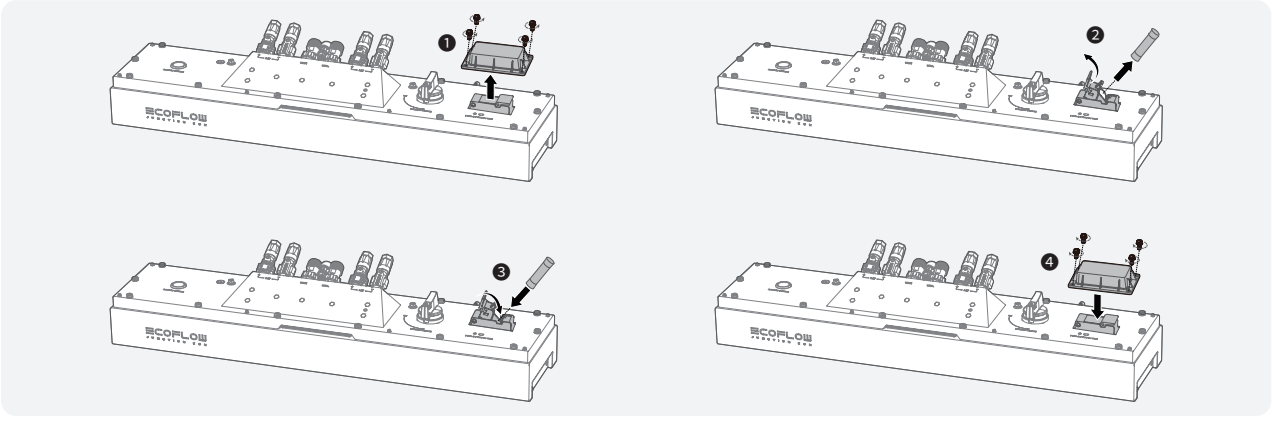
- Please use fuses with local certification standards

1. Power off the system. For details, see chapter: System Power-Off.

**⚠ WARNING**

- After the system is powered off, the remaining electricity and heat still exist in the chassis, which may cause electric shocks or burns. Therefore, you need to wear protective gloves and perform operations 5 minutes after the system is powered off.
- Only qualified professionals are allowed to replace a fuse.

1. Loosen the screws on the fuse shell.
2. Lift the fuse box opening, remove the fuse, insert a new fuse of the same specification as the old one into the slot, and close the fuse box.
3. Lock the fuse shell with screws.




| Fuse type | Fast blow fuse |
|---|---|
| Rated voltage | 1500 Vd.c. |
| Rated current | 32 A |
| Breaking capacity | 10 kA@1500 Vd.c. |
| Nominal fusing heat I2T | 640-6270 |
| Cold resistance value | 0.00253~0.00379Ω |
| Dimensions | 14.2*51 mm |
| Fuse model | A842320b00 |

# Used Batteries Disposal

- When conditions permit, be sure to completely discharge the battery before placing the battery in the designated battery recycling bin. This product contains batteries. Batteries are dangerous chemicals and should not be disposed of in ordinary trash bins. For details, follow the local battery recycling and disposal laws and regulations.
- If the battery cannot be completely discharged due to battery failure, do not dispose of the battery directly in the battery recycling bin, and contact a professional battery recycling company for further processing.
- If the battery cannot start after being discharged, dispose of it according to local laws and regulations on battery recycling and disposal.
- Hereby, our products have met the regulations of BattG in Germany.

# Technical Parameters

| Technical Specifications | | EF BD-5-S2 |
|---|---|---|
| Performance | Battery Nominal Capacity (kWh) | 5.02 |
| | Battery Usable Capacity[1] (kWh) | 4.85 |
| | Battery Cell Type | $LiFePO_4$ |
| | Nominal Charging Power (W) | 2500 |
| | Nominal discharging Power (W) | 3400 |
| | Maximum discharging Power[2] (W) | 4080 |
| | Nominal Voltage (V) | 400 / 800 |
| | Operating Voltage Range (V) | 360-520 / 720-960 |
| Compliance | Safety Standard | IEC/EN 62619, IEC/EN 62040-1, IEC/EN 62477-1, ISO 13849-1, VDE-AR-E 2510-50 |
| | Delivery Standard | UN38.3 |
| | EMC | EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 |
| General Data | Dimension (WxDxH) (mm) | 680×196×279 |
| | Weight (kg) | 46 |
| | Installation | Floor Stand: A stack of up to 6 batteries |
| | | Wall Mounted: A stack of up to 3 batteries |
| | Operating Temperature[3] (°C) | -20 to 55 |
| | Storage Temperature (°C) | -25 to 60 |
| | Max. Operating Altitude[4] (m) | 3000 |
| | Cooling Method | Natural cooling |
| | Relative Humidity | 0%-100% |
| | Ingress Protection Rating | IP66 |
| | Anti-theft | Supported |
| | Communication Method | CAN |
| | Protection | Over-charge/over-discharge protection, over-voltage/under-voltage protection, over-current protection, short-circuit protection, reverse-polarity protection, temperature protection, thermal-runaway protection, leakage-current protection, insulation protection, over-pressure protection, automatic power-off protection, emergency shutdown |

1. Under laboratory test conditions at 25°C ambient temperature with the device stabilized at 25°C, the battery undergoes 0.2C charge/discharge cycling at 100% depth of discharge (DoD) during beginning of life (BOL).
2. In a laboratory environment maintaining 25°C ambient and device temperature, the discharge duration at the specified power output meets or exceeds 20 minutes.
3. Power may be derated when the temperature exceeds 40°C.
4. Power may be derated above 2000 m.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