## ECOFLOU

## AC/DC SMART DISTRIBUTION PANEL User Manual V1.2



EFM100-LD (HV)

### 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 the 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 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.

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## **Technical Specifications**

**Basic Information** 

Dasic Information		
Net Weight	2.6 kg (5.8 lbs)	
Dimensions (L x W xH)	35.4 cm x 21cm x 9.8 cm (14" x 8.3" x 3.9")	
Output Spec		
AC Output	Six circuits, maximum current 10 A each circuit 220-240 V, 50 Hz	
DC Output	Six controllable circuits + Six regular circuits, maximum current 20 A each circuit 10–30 VDC	
Input Spec		
AC Input	220-240 V, 50 Hz Maximum current 30 A	

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DC Inpu	t
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10–30 VDC Maximum current 70 A

Operating	Environment

Operating Temperature	–25°C to 60°C ( -13°F to 140°F )
Storage Temperature	–25°C to 60°C ( -13°F to 140°F )

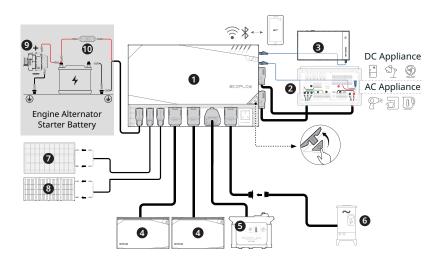
Safety Instructions



- 1. CAUTION Risk of Electric Shock. Disconnect power unit before installing and servicing
- 2. Keep this product away from heat sources, such as fires or heating furnaces.
- 3. To prevent fire, short circuits, and electric shocks, do not install this product in environments with high humidity, high temperature, or conductive contaminants.
- Before installing this product, disconnect the main power supply. Do not work with live power.
- 5. Keep this product away from any liquid. Do not immerse this product in water or get it wet. Do not use this product in rain or humid environments.
- 6. Do not use this product in environments with strong static electricity or magnetic fields.
- 7. Do not disassemble this product in any way or pierce it with sharp objects.
- 8. Do not use wires or other metal objects that may result in a short circuit.
- 9. Do not use unofficial components or accessories. If components or accessories need to be replaced, purchase them from the EcoFlow official sales channels.
- 10. Strictly comply with the ambient temperature for use in this user manual when using this product.
- 11. Do not stack other heavy objects on this product.
- 12. Please avoid impact, falls, or severe vibrations when using the product. In case of a severe external impact, turn off the power supply immediately and stop using the product. Ensure the product is well fastened during transportation to avoid vibrations and impacts.
- 13. If there is dirt on the ports of the product, clean it with a dry cloth.
- 14. Place this product carefully to prevent damage caused by the product falling over. If the product falls over and is seriously damaged, power it off immediately.
- 15. Keep this product out of reach of children and pets.

## **Getting Started**

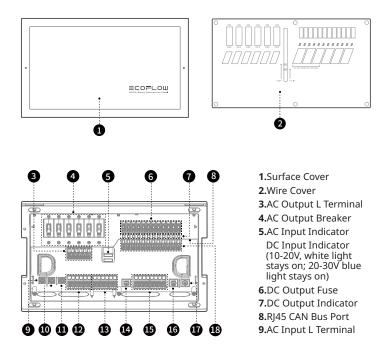
#### **System Overview**



- 1. EcoFlow Power Hub
- 2. AC/DC Smart Distribution Panel
- 3. Power Kit Console
- 4. EcoFlow 2kWh/5kWh LFP Battery
- 5. EcoFlow Smart Generator

- 6. Shore Power/Grid Power
- 7. Rigid/Flexible Solar Panel
- 8. Foldable / Portable Solar Panel
- 9. Vehicle Alternator
- 10. Fuse-100A (Not included)

#### **Product Overview**



- 10.AC Input N Terminal11.AC Input PE Terminal13.AC Output PE Terminal12.AC Output N Terminal
- 14.DC Output Negative Terminal (>20A)
  15.DC Output Negative Terminal (<20A)</li>
  16.DC Input Negative Terminal
  17.DC Input Positive Terminal
  18.DC Output Positive Terminal

## Product Usage

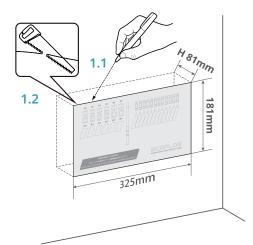
#### Wiring Chart

Gauge (AWG)	UL1015 Wire Current (A)	THHN Wire Current (A)
16	25	
14	35	20
12	45	25
10	60	35
8	80	50
6	120	65

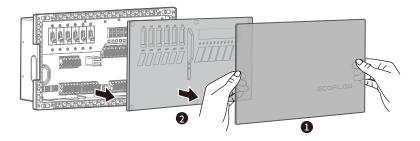
#### **Product Installation**

#### Flush Installation Guide

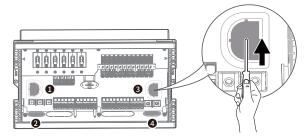
 Select installation position, position the framing template and find level with a leveling instrument. Draw cutting lines along the template, and use sawing tools to cut a 325 mm x 181 mm rectangular opening for flush intallation.



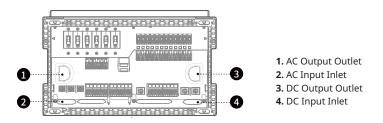
2. Remove the surface cover and the wiring cover plate to expose the inner panel.



3. Remove the retainers near the input inlets and the load outlets.

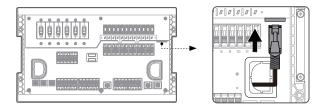


4. Connect AC wires from the left side and DC wires from the right side. It is recommended to route wires through corresponding inlets and outlets (e.g. AC input wires shall always go through the AC Input Inlet while AC output wires shall go through the AC Output Outlet). This will prevent potential wiring and electrical safety issues.

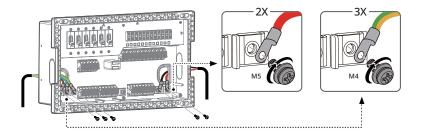


 $\int_{-}^{-}$  All wires must go through the inner panel for safe and protected connection to the Smart Distribution Panel.

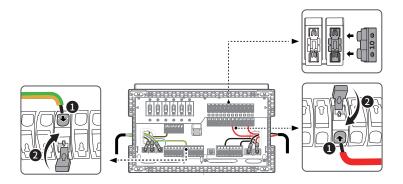
5. Insert the RJ45 CAN Bus cable to the CAN Bus Port. Ensure connection of the RJ45 CAN Bus cable to activate the six controllable DC circuits and essential load informations.



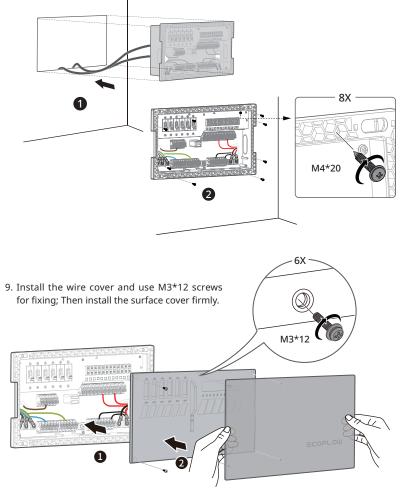
6. Use a Phillips screwdriver to fasten the AC and DC input wires to corresponding input terminals with screws (AC: M4\*10 screws; DC: M5\*10 screws).



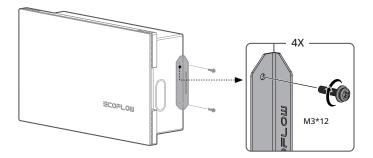
7. For each circuit, open the wire snaps and insert the load wires correspondingly. Ensure each wire is snapped firmly. For DC circuits, ensure appropriate choice of fuse according to load current, and insert the fuse to corresponding fuse slot.



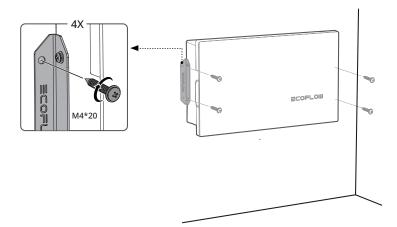
- 2 1. AC and DC circuits are sorted from left to right, such sequence is also shown on EcoFlow App and Power Kit Console.
  - 2 . From left to right, the first six DC circuits are controllable circuits, which can be switched on and off from EcoFlow App and Power Kit Console.
  - 3 . It is recommended to select fuses with rated current greater than 1.35 times of corresponding load current.
- 8. Then install the surface cover firmly.



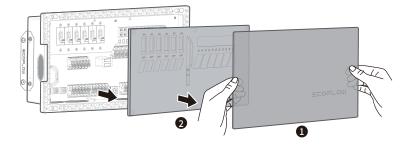
1. Use M3\*12 screws to fix the wall-mount lugs on both sides of the Smart Distribution Panel



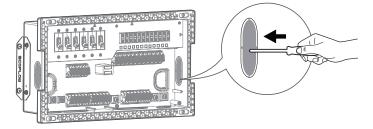
2. Use M4\*20 self-tapping screws to fix the Smart Distribution Panel on the wall.



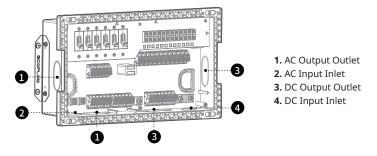
3. Remove the surface cover and the wiring cover plate to expose the inner panel.



4. Remove the retainers near the input inlets and the load outlets.

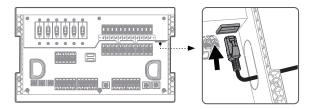


5. Connect AC wires from the left side and DC wires from the right side. It is recommended to route wires through corresponding inlets and outlets (e.g. AC input wires shall always go through the AC Input Inlet while AC output wires shall go through the AC Output Outlet). This will prevent potential wiring and electrical safety issues.

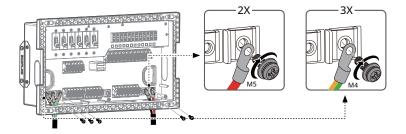


All wires must go through the inner panel for safe and protected connection to the Smart Distribution Panel.

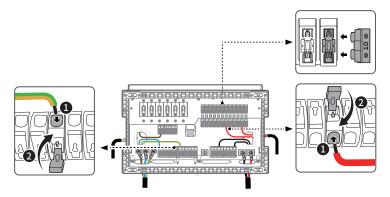
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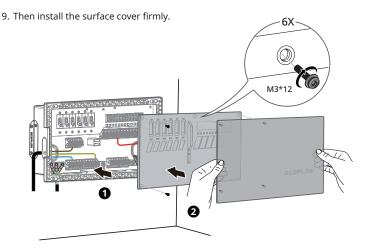
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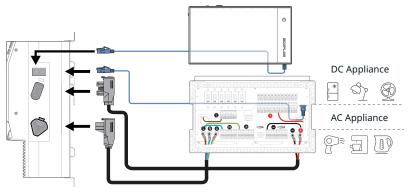


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#### **Connect to Power Hub**

Connect the Smart Distribution Panel and Power Hub with the AC OUT Cable, DC OUT Cable, and RJ45 CAN Bus Cable.



## FAQs

1. What installation methods does this product support and which tools are required during installation?

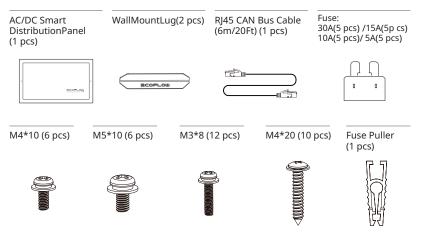
This product supports two installation methods: inline installation and wall-mount installation. Tools required during installation include: a Phillips screwdriver, crimping tools, sawing tools, and insulation tape.

- Which scenarios does this product apply to? Application scenarios include but are not limited to Homes, RVs, and Off-grid Builds.
- 3. Do the input and output parameters of this product apply to electricity use standards of all countries?

Yes. Both low-voltage and high-voltage versions of this product are available, which cover electricity use standards of all countries.

- 4. What are the charging and discharging methods of this product? Charging methods include: AC Charging, Vehicle Alternator Charging, Smart Generator Charging and Solar Charging. The discharging method is AC/DC output.
- 5. Which devices can connect to the AC output port of this product? The rated power of the AC output port of this product is 3600W, and surge power is 7200W. It can supply power to most home appliances. However, it is recommended to confirm the power of the appliances before use, and ensure that the total power of all AC loads is less than the rated power.

## What's in the Box



## Care and Maintenance

- 1. Use or store this product in an environment with a temperature ranging from -25°C (-13°F)to 60°C (140°F) and keep it away from water sources, heat sources, and metal objects.
- 2. For safety reasons, do not store this product in an environment where the temperature is higher than 60°C (140°F) or lower than 0°C (32°F) for a long time.

# ECOFLOW



Ecoflow App