



EcoFlow DELTA Pro Ultra

Thank you for choosing
EcoFlow portable power station

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EcoFlow App



Community



After-sales
Policy

About This Manual

- This manual contains an introduction to this power station, 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. The following examples are based on the US version.
- If you are reading this manual in PDF format, please note that you can access it online at [EcoFlowSupport](https://www.ecoflow.com/support) for a better experience and the latest updates.



Tutorial Video: <https://www.youtube.com/watch?v=uMpYUGev6zI>

Introduction

EcoFlow DELTA Pro Ultra is a residential power backup system designed for both extended outages and daily use. With its unrivaled capacity, input power and output power, a single can run your entire home.

Home Backup

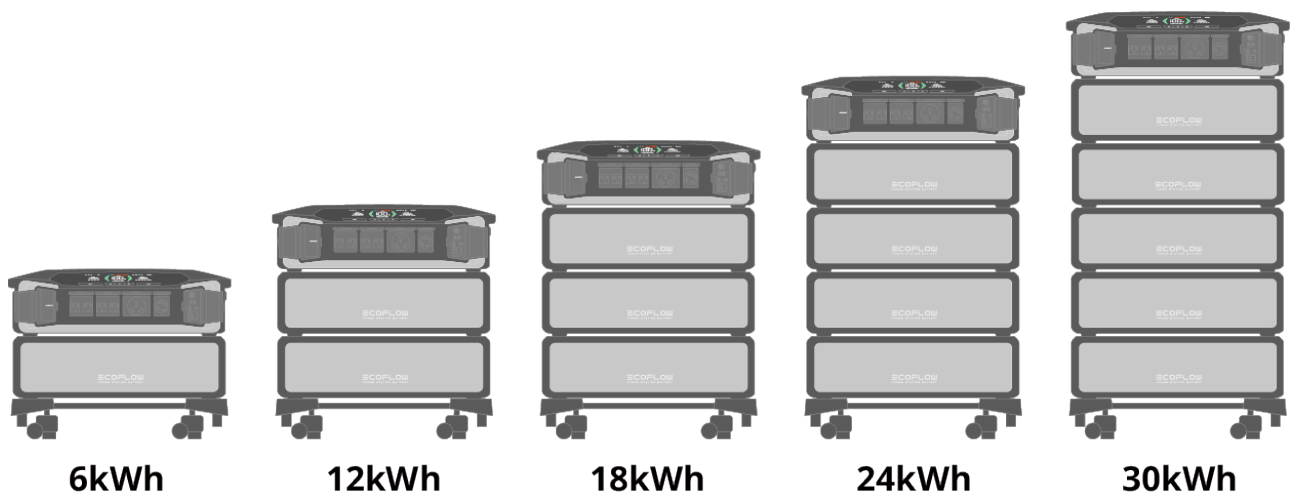
The DELTA Pro Ultra can either be used as a stand-alone unit using various recharging options (low/high voltage solar systems, generators, EV chargers,

etc.) or forms a whole home backup system to ensure that your home can be powered 24/7 without any influence from power outage.

Continuous Power

With EcoFlow DELTA Pro Ultra's UPS technology, you'll get impeccable, uninterrupted power flow, EcoFlow DELTA Pro Ultra safeguards your vulnerable electronic equipment round-the-clock. For extended outages, you don't want to hear your backup in the background, so for low draws under 2000W, it's completely silent. With a whisper-quiet 0 dB, your nights remain undisturbed as it powers your devices.

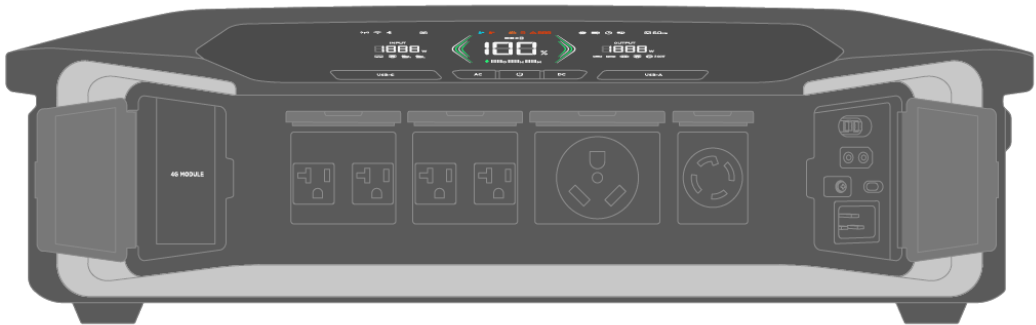
Expandable Capacity



The rated capacity of one battery is 6kWh. To expand capacity for powering your appliances (see **Overview** or **Power Your Appliances**) or backing up your whole home (see **Backup System**), one can connect up to 5 batteries to an inverter or up to 15 batteries to 3 sets of inverters, which makes the total capacity add up to about 30kWh to 90kWh.

Specifications

EcoFlow DELTA Pro Ultra Inverter



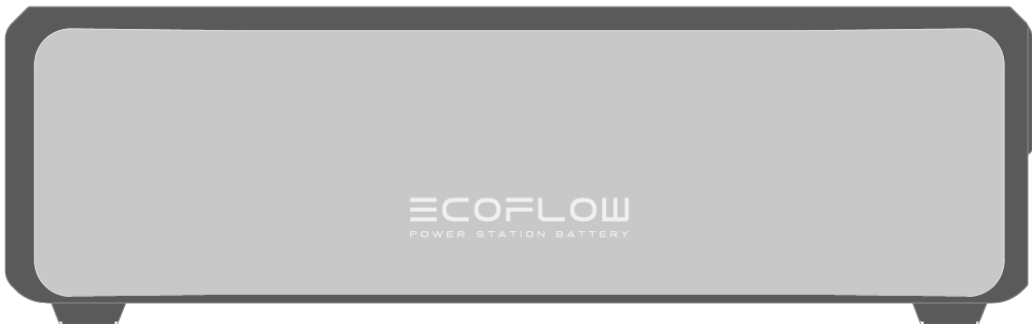
General	
Model	EFYJ751-PCS-US
	EFYJ751-PCS-EU
	EFYJ751-PCS-UK

EFYJ751-PCS-AU	
Net Weight	Approx. 32.1 kg (approx. 70.8 lb)
Dimensions	690 × 481 × 214 mm (27.2 × 18.9 × 8.4 in.)
Wi-Fi	Supported
Bluetooth	Supported
Output	
AC Output (Discharge Only)	US: 120/240V~60Hz 7200W total, 120V~20A (×4) Max per port, 120V~30A (×1), 240V~30A (×1) EU: 230V~50Hz 6900W total, 16A (×4) Max per port, 30A (×1) Max UK: 230V~50Hz 6900W total, 13A (×4) Max per port, 30A (×1) Max AU: 230V~50Hz 6900W total, 15A (×5) Max per port
AC Output (Bypass Mode)	US: 100-120V~ 50/60Hz 30A total UK/EU: 220-240V~ 50/60Hz 12.5A (×5) total AU: 220-240V~ 50/60Hz 10A (×5) total
USB Output	USB-C (× 2): 5/9/12/15V≡3A, 20V≡5A, 100W Max per port, total 200W USB-A (× 2): 5V≡2.4A, 12W Max per port, total 24W
12V DC Output	12.6V≡ 30A, 378W Max
Input	
AC Input (Charge Only)	US: 100-120V~15A, 200-240V~12.5A, 50/60Hz UK/EU: 220-240V~12.5A Max 50/60Hz AU: 220-240V~10A Max 50/60Hz
AC Input (Bypass Mode)	US: 100-120V~15A, 50/60Hz (duration < 3hrs when the current exceeds 12A) UK/EU: 220-240V~12.5A Max 50/60Hz AU: 220-240V~10A Max 50/60Hz
Power Input/Output (US)	100-120~30A; 200-240V~30A, 50/60Hz
Power Input (EU/UK/AU)	200-240V~30A, 50/60Hz, 6900W Max
High-PV Input	80-450V≡15A Max, 4000W Max
Low-PV Input	30-150V≡15A Max, 1600W Max
PV Input Short-circuit Current	23A
Environment	
Discharge Temperature ¹	-20°C to 45°C (-4°F to 113°F)
Charge	

Temperature ¹	–20°C to 45°C (–4°F to 113°F)
Storage Temperature	–20°C to 45°C (–4°F to 113°F) (optimum at 20°C-30°C / 68°F-86°F)
Altitude	≤3000 m (9842 ft)
Overvoltage Category	PV (II), AC (III)
Pollution Degree	2
Other Info	
IP Rating ²	IP54
Noise Level	<30 dB
UPS	EU/UK/AU: <20 ms US: Backup UPS <20 ms; online UPS 0 ms
Communication Method ³	Bluetooth & Wi-Fi

1. When the ambient temperature exceeds 40°C, the charging and discharging power are recommended to be not higher than 5000W when charging and discharging the product at the same time.
2. The IP rating is IP54 when protective covers are closed.
3. 4G can be supported on model EFYJ751-PCS-US.

EcoFlow DELTA Pro Ultra Battery



General	
Model	EFYJ751-BP
Name	Rechargeable Li-ion battery pack
Net Weight	Approx. 50.5 kg (111.3 lb)
Dimensions	Approx. 660 × 455 × 204 mm (26 × 18 × 8 in.)
Capacity	102.4V≈60A, 6,144Wh
Battery	
Cell Material	LFP
The battery maintains 80%+ SOH (state of health) after 3,500	

Cycle Life	cycles at 0.5C/0.5C at 25°C (77°F)
Protection type	Overvoltage protection, overload protection, overtemperature protection, short circuit protection, low temperature protection, low voltage protection, overcurrent protection
Other	
Temperature	Discharging temp: −20°C to 45°C (−4°F to 113°F) Charging temp: −20°C to 45°C (−4°F to 113°F) Storage temp: −20°C to 45°C (−4°F to 113°F) (optimum: 20°C to 30°C(68°F to 86°F))
Altitude	≤3,000 m (9,842 ft.)
IP Rating	IP54



NOTICE

- Specifications and notes herein may change without notification. EcoFlow reserves the right to modify the document due to product update.
- The IP rating is IP54 when the product is not in use.
- For most scenarios, noise level of the product is less than 30 dB.
- Whether the product can be charged or discharged depends on the actual temperature of the battery.
- The battery will automatically start self-heating if the temperature is lower than 0 °C (32 °F). To disable this, please set it in the app.

How It Works

Supported Appliances

Appliance Compatibility

Refer to the information below to ensure that your appliances are compatible with DELTA Pro Ultra. If you choose to proceed with incompatible appliances, DELTA Pro Ultra may not be able to provide backup power effectively. To avoid this, please check the following specifications carefully.

Compressor-based Appliances

For any compressor-based appliance, please ensure that the RLA (Rated Load Amps) and LRA (Locked Rotor Amps) of your appliances are compatible with the corresponding specs of the inverter. Compressor-based appliances include air conditioners, heat pumps, fridges, etc.

Max combined appliance rating per DELTA Pro Ultra

≤120A LRA or ≤20A RLA per DELTA Pro Ultra

4	DC power button	Press once to enable/disable the corresponding DC ports.
5	USB-A output port	Supports USB-A powered appliances.
6	DC output port	Supports cig lighters and other appliances.
7	Low-PV input port	Connect the inverter to solar panels for charging, with the total voltage between 30V and 150V.
8	PV switch	Turns on/off the PV switch to enable/disable solar charging.
9	4G dongle port (US version only)	Insert the EcoFlow 4G Dongle PPS (NA) into this port to establish communication between the device and EcoFlow web portal.
10	AC output socket (120V 20A max. per port) - Backup UPS	Supports 120V 20A max output and 20 ms UPS per port.
11	AC output socket (120V 20A max. per port) - Online UPS	Supports 120V 20A max output and 0 ms UPS per port.
12	AC output socket (120V 30A max.) - Online UPS	Supports 120V 30A max output and 0 ms UPS.
13	AC output socket (120V/240V 30A max.) - Backup UPS	Supports 120V/240V 30A max output and 20 ms UPS.
14	Ground screw	Grounds the product in case of potential electric shock.
15	AC charging input port	① Connects the device to a wall outlet for charging. ② Connects the device to a generator for charging.
16	AC charging speed switch	Adjusts the recharging speed of AC charging.
17	High-PV input port	Connects to solar panels for recharging with the total voltage between 80V and 450V.
18	Lock hole	Locks the lock hole (lock is not included in the package) to prevent accidental startup.
19	Power input/output port (US) Power input port (EU/UK/AU)	① Connects to a generator for charging. ② Connects to an EV charger for charging.
20	Battery port	Connects the inverter to the battery.

EcoFlow DELTA Pro Ultra Battery

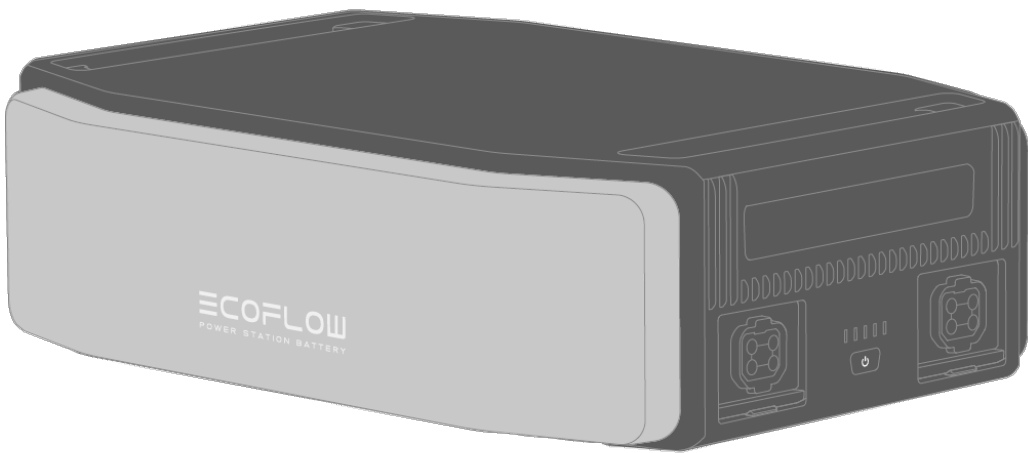
4	Backup mode	20	DC output
5	TOU mode	21	USB-A output
6	Low-temp warning	22	USB-C output
7	High-temp warning	23	Remaining battery percentage
8	Self-consumption mode	24	Remaining charging/discharging time
9	Battery failure warning	25	Number of batteries
10	Error report	26	Low-PV input
11	Error code	27	High-PV input
12	Ventilation fan	28	Power input
13	Charging limit	29	AC charging input
14	Timer	30	Total input power
15	Charging/discharging level	31	Input indicator
16	AC output frequency		

※ Apparent power

- The apparent power in the LCD screen displays the power supplied by the power station to the appliances for the overall operation, generally higher than the power(active power) consumed by the appliances at work. *The conversion is: active power = apparent power × power factor (PF).*
- Please check the power factor (PF) in [Device Homepage] - [Settings] - [Lab Feature] in the EcoFlow app.

See "[LCD Screen Icons](#)" for more details.

LED Indicator



Status	Description
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Power on	LED 1 to 5 sequentially lights up
Power off	LED 5 to 1 sequentially shuts down
Discharging	81%~100%: LED 1 to 5 solid 61%~80%: LED 1 to 4 solid 41%~60%: LED 1 to 3 solid 21%~40%: LED 1 to 2 solid 1%~20%: LED 1 solid 0%: LED 1 to LED 5 blinking
Charging	0~20%: LED 1 blinks 21~40%: LED 1 remains solid, LED 2 starts to blink 41~60%: LED 1 to 2 remain solid, LED 3 blinks 61~80%: LED 1~3 solid, LED 4 blinks 81~99%: LED 1~4 solid, LED 5 blinks 100%: LED 1 to LED 5 remain solid

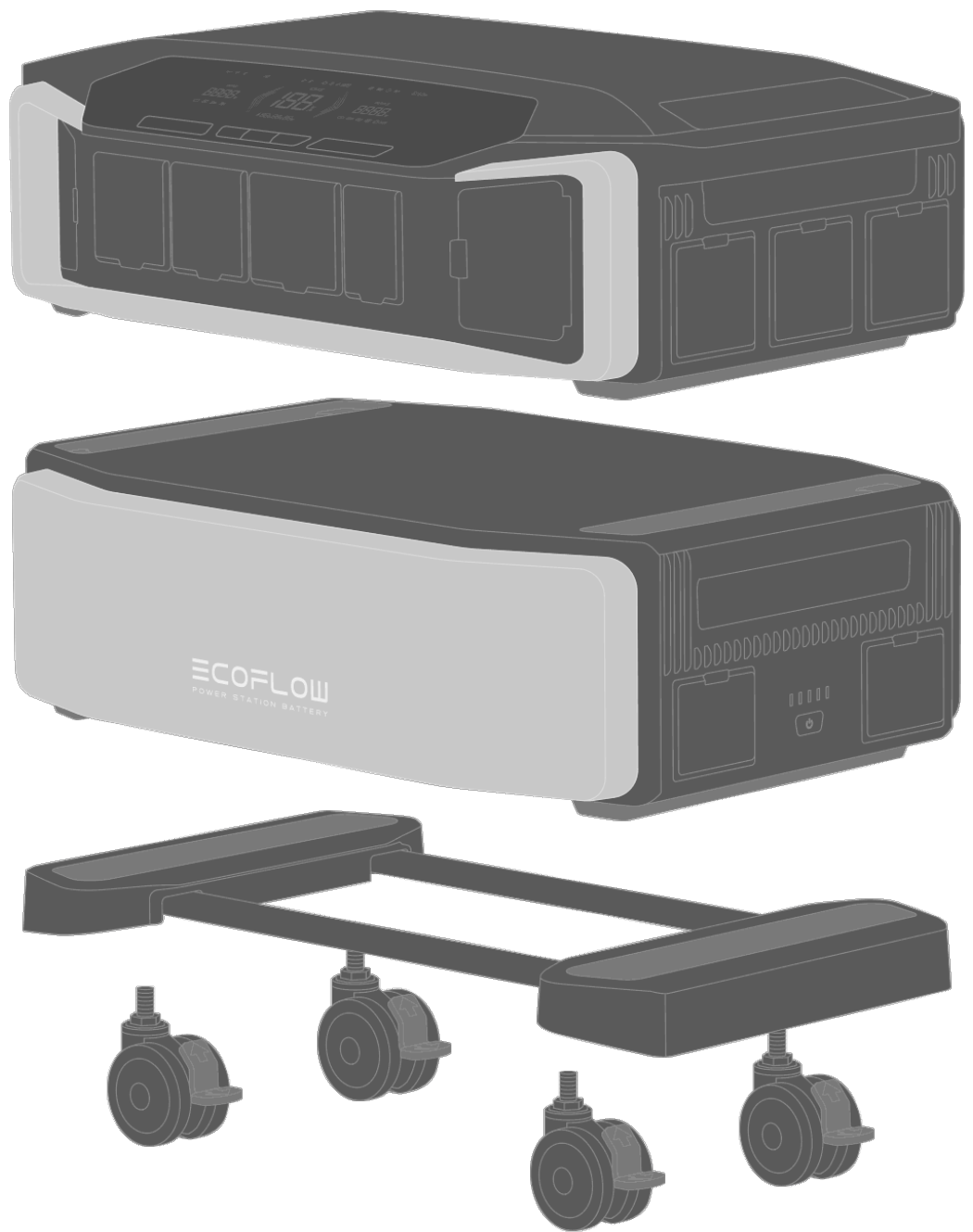
Installation

 CAUTION

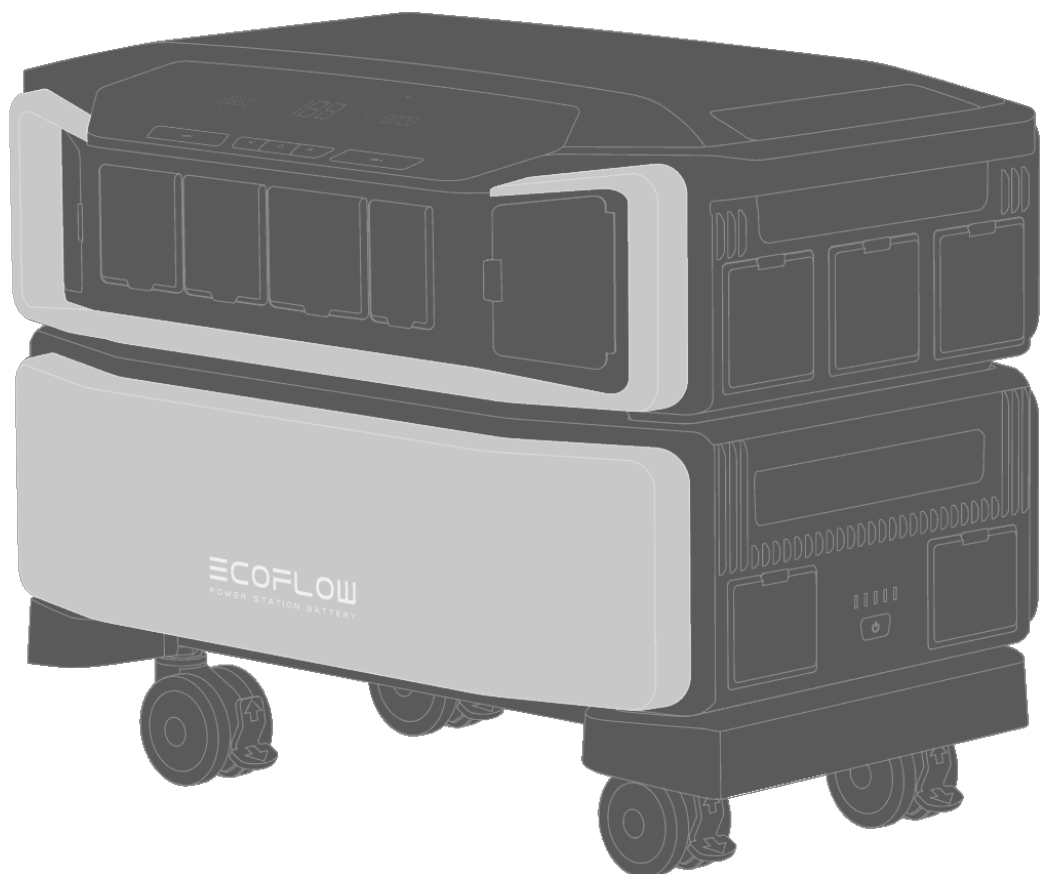
- Please ensure that the product is installed in a well-ventilated place and do not block the ventilation fans during operation. Insufficient ventilation may damage the equipment.

Mounting On Portable Stand

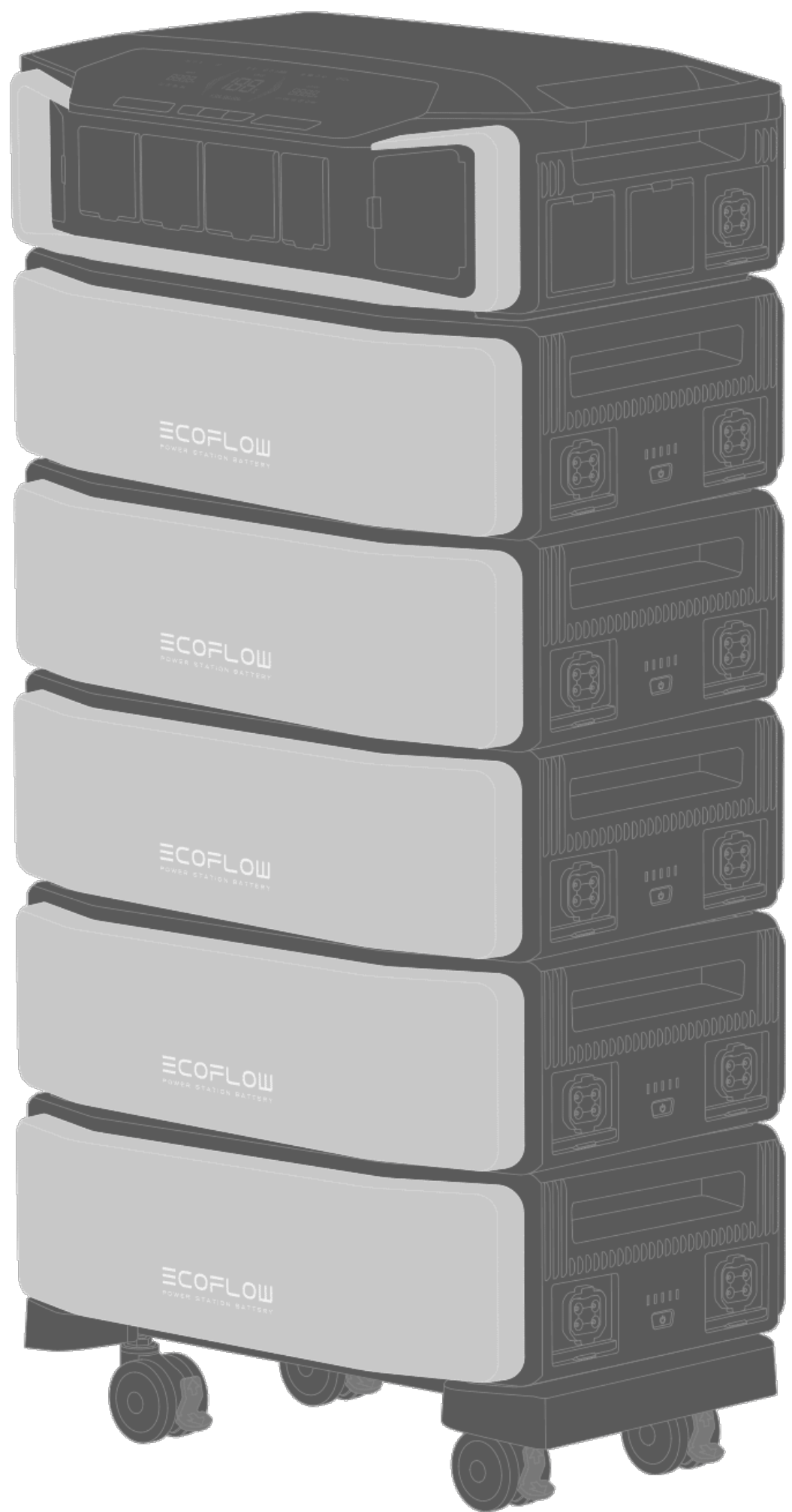
1. Install the portable stand, the battery and the inverter in sequence with the battery ports of both the inverter and battery installed on the same side, and ensure that the inverter and the battery are properly installed into the corresponding grooves.



2. Open the protective covers and connect the battery connection cable.



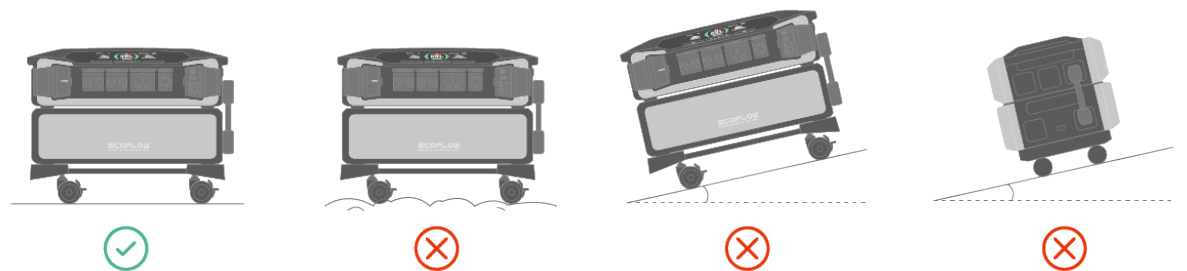
3. An inverter supports up to 5 batteries. During installation, please note that battery connection cables should be installed in the right sequence as in the illustration. If you connect more than 3 batteries, lock the brakes of the mount casters after installation.





Find out more

- As the product is very heavy, we recommend that two people carry it to avoid potential personal injury.
- The portable stand needs to be installed on a hard, flat surface instead of soft surfaces (for example, dirt or sand). Do not place the portable stand on a tilted surface as it may cause the product to topple over, potentially resulting in personal injury or product damage.



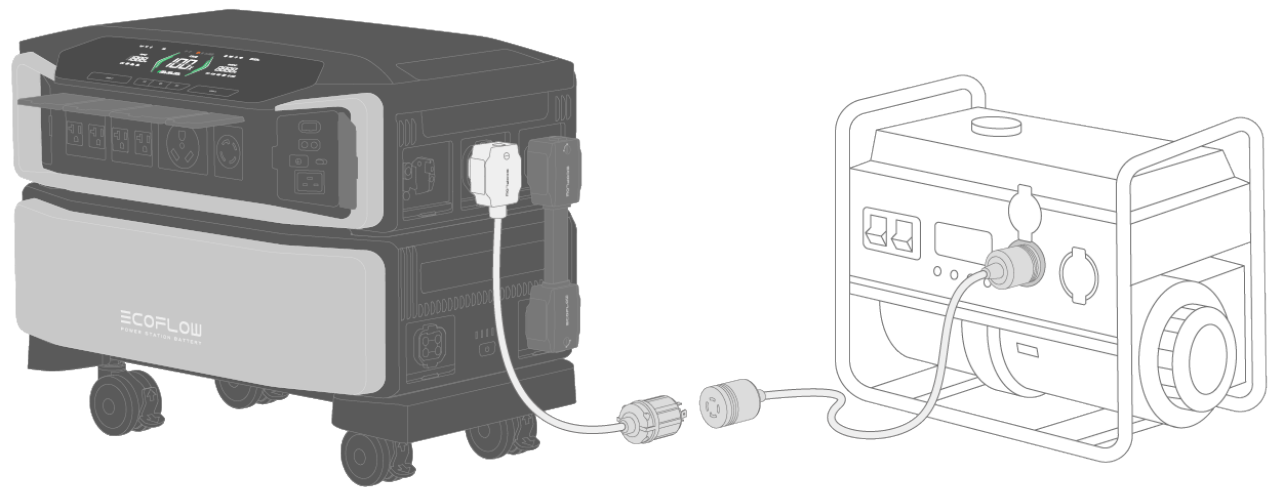
Mounting Two Sets Of Units

If you have 2 sets of products, you can put one set on top of the other set. Be noted that the top set should be installed with supporting legs instead of casters.

Charging From The Generator

Connect your generator to the product to enable charging via the generator. If you are unsure how to connect your generator to the product, refer to the user manual for generator or contact the manufacturer for details.

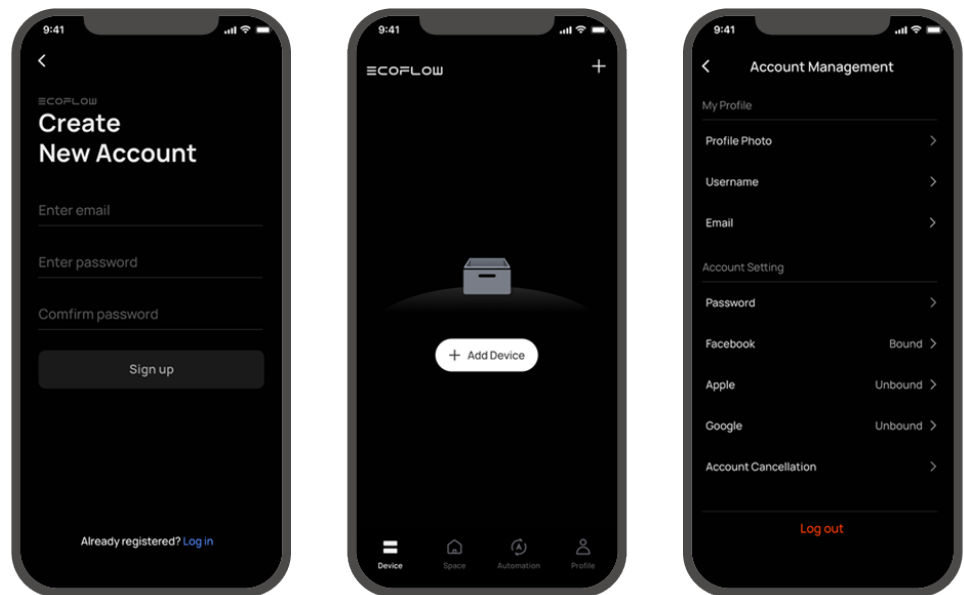
Ensure that the power of the product is lower than that of your generator, and then connect one side of the generator to the power input/output port or AC charging input port and the other side to the generator.



DELTA Pro Ultra supports conventional generators with THD less than or equal to 10%.

Charging From Solar Panels

2. Linking With Your Station



After registration, you will be notified by the app to "add" the device. If you can't receive this pop-up notice, then please add the device manually. To add the device manually, please follow steps below:

1. Click "Add" or the plus sign in the upper right corner.
2. Wait for the app to scan the available device and then click the product icon.

3. Internet Setup

There are few ways to connect to DELTA Pro Ultra: Bluetooth, IoT and 4G.

- Bluetooth: Generally, you are notified to turn on Bluetooth when you bond the app with the device. Once the Bluetooth connection has been established between the app and the device, you can check the device's operating status and control/manage the device wirelessly via the app.
- IoT: After connecting to Bluetooth, select the icon next to Bluetooth and enter the correct password. Once connected, the device will switch to IoT mode.

4. General Setting

