

# AP DC Combiner Quick Installation Guide



## Ensure that the installation location meets the following conditions:

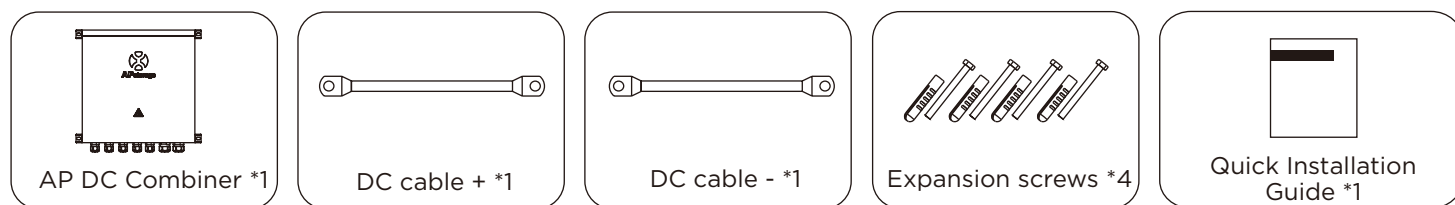
- ▶ The building is designed to withstand earthquakes.
- ▶ The location is far from the sea to avoid salt water and humidity, over 0.62 miles/1000 meters.
- ▶ There are no flammable or explosive materials, at a minimum of 3 ft/1 m.
- ▶ The ambience is shady and cool, away from heat and direct sunlight.
- ▶ The temperature and humidity remains at a constant level.
- ▶ There is minimal dust and dirt in area.
- ▶ There are no corrosive gases present, including ammonia and acid vapor.

**NOTE:** The AP DC Combiner is rated at IP65 and thus can be installed outdoors as well as indoors. However, if installed outdoors, the AP DC Combiner shall not be exposed to direct sunlight and moisture.

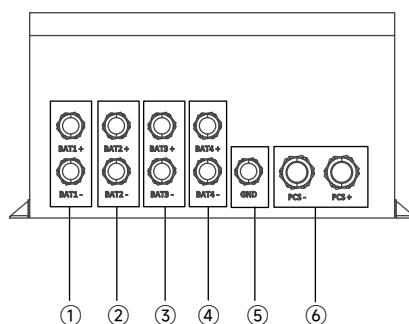
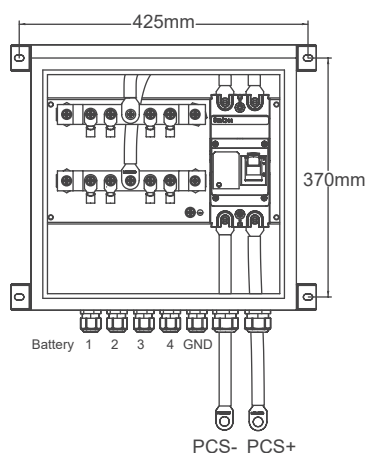
**NOTE:** If the ambient temperature exceeds the operating range, the battery pack will stop running to protect itself. Frequent exposure to harsh temperatures may deteriorate its performance and lifetime.

## 1. Packing List

Inspect the equipment before installation. Please ensure that the packaging is not damaged. The package should contain the items shown in the image below:



## 2. Terminals of the AP DC Combiner



Object	Mark	Description
①	BAT1+/BAT1-	Connector BAT1+/BAT1- to +/- of battery 1
②	BAT2+/BAT2-	Connector BAT2+/BAT2- to +/- of battery 2
③	BAT3+/BAT3-	Connector BAT3+/BAT3- to +/- of battery 3
④	BAT4+/BAT4-	Connector BAT4+/BAT4- to +/- of battery 4
⑤	GND	Grounding
⑥	PCS+/PCS-	Connector PCS+/PCS- to BAT+/BAT- of PCS

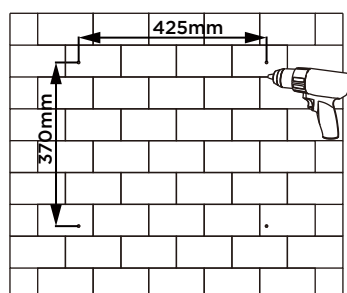
## 3. Installed on the Wall

Step 1. Mark the location of the holes on the wall and drill holes according to the type of wall and the type of expansion screws.

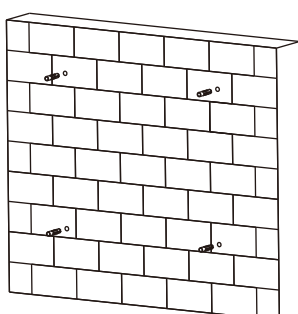
Step 2. Insert the plastic expansion tube into the holes in the wall.

Step 3. Use a screwdriver to tighten the expansion screws and secure the AP DC Combiner to the wall.

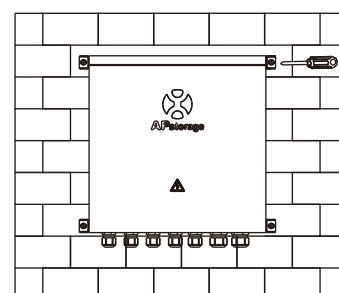
### Step 1



### Step 2

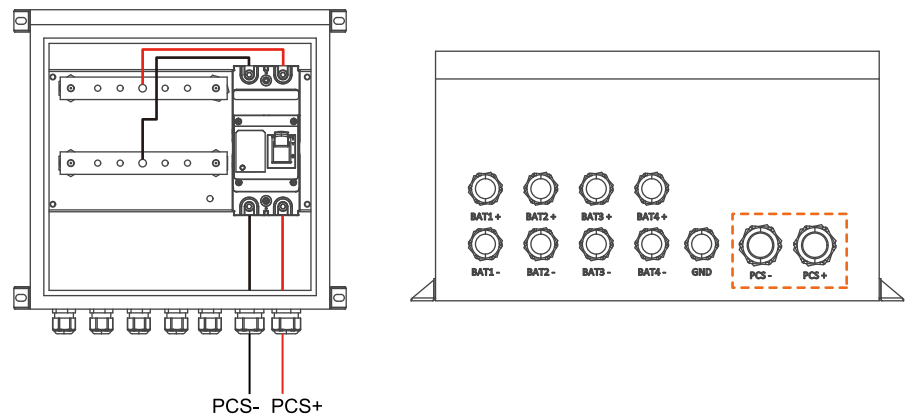


### Step 3



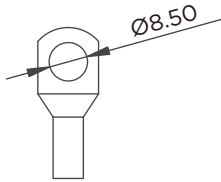
## 4. Connecting Cables to PCS

The terminal block for PCS connection is shown as below (Torque: 10 N·m).  
For PCS+, please use red or orange cable, and for PCS -, please use black cable.

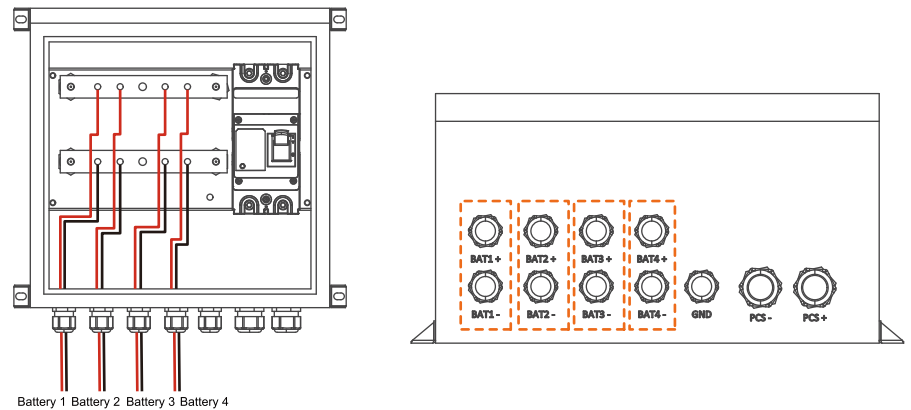


## 5. Connecting Cables to Battery

The terminal block for Battery connection is shown as below (Torque: 8 N·m).  
For BAT+, please use red cables, and for BAT -, please use black cables.  
The model of the BAT terminal is SC35-8. Please prepare 35mm<sup>2</sup> cables by yourself.

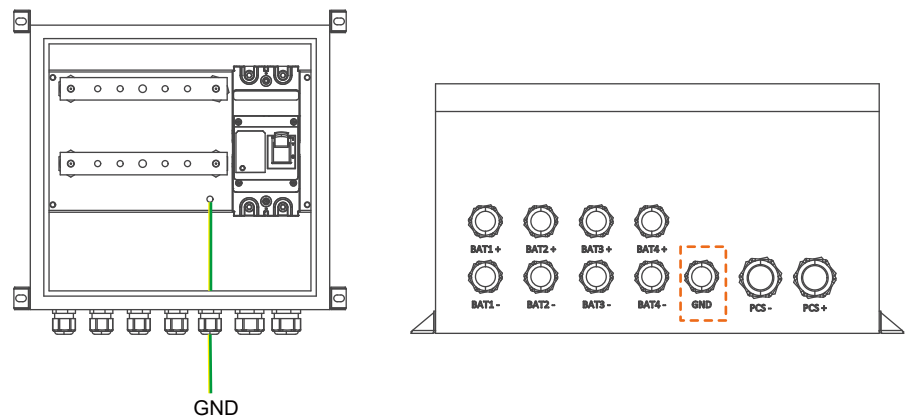
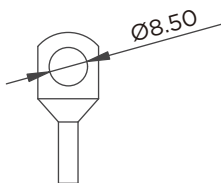


NOTE: If the cable on the battery does not match this terminal, you will need to purchase the appropriate terminal yourself.



## 6. Ground Connection

The terminal block for GND connection is shown as below (Torque: 8 N·m).  
For GND, please use yellow-green cable.  
The model of the GND terminal is SC10-8. Please prepare a 10mm<sup>2</sup> cable by yourself.



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