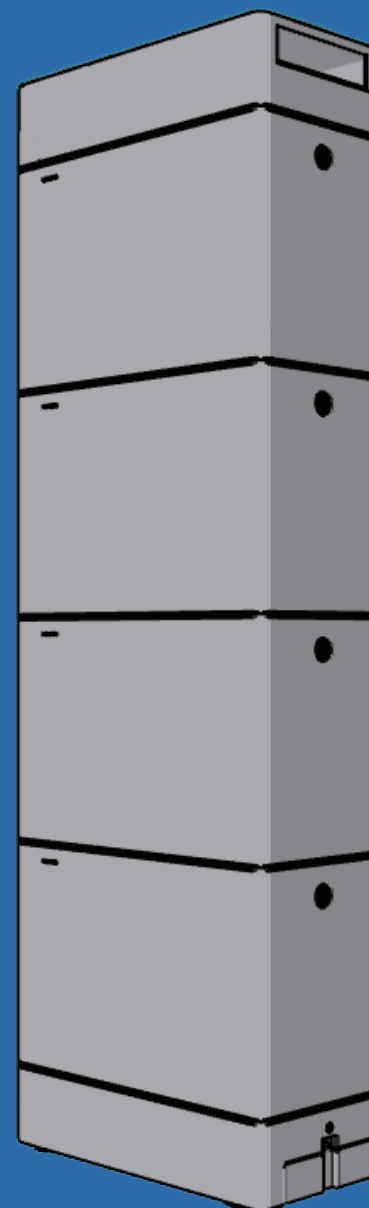


ES Series



EN
User's
Manual



Dear Valued Customer,
We are delighted to welcome you to the Elitec family! By choosing our energy storage batteries, you have taken a significant step towards efficiently managing your home power systems and living a more eco-friendly lifestyle.

Our energy storage batteries are designed to help you make the most of your solar power system. With Elitec batteries, you can store excess solar power generated during the day and use it during the night or peak hours, reducing your reliance on the grid and saving on electricity bills. Not only does this help you save money, but it also allows you to reduce your carbon footprint, as you rely less on fossil fuels and more on clean, renewable energy.

Everyone has a part to play in creating a sustainable future for our planet, and we are proud to offer products that contribute to this goal. We are committed to providing you with the highest quality energy storage batteries and exceptional customer service.

If you have any questions or concerns about your new Elitec storage batteries, our experts are always here to help. We want to ensure you have a seamless experience with our products and are getting the most out of your investment.

Once again, we welcome you to the Elitec family and look forward to serving your energy storage needs.
Sincerely,

The Elitec Team.

WELCOME

Precautions

The ES series battery systems offer many benefits, such as improved efficiency and reduced emissions. It is essential to take certain precautions to ensure safety. Here are some general precautions for using ES Series battery systems:

1. Always follow Elitec's instructions and guidelines for using and maintaining the battery system.
2. Wear appropriate personal protective equipment, such as insulated gloves and safety glasses, when working with high-voltage battery systems.
3. Ensure that the battery system is installed correctly and grounded and that all electrical connections are secure.
4. Do not attempt to disassemble or modify the battery system, as this can result in electric shock or other serious injuries.
5. If the battery system is damaged or shows signs of malfunction, such as leaking or swelling, stop using it immediately and seek professional assistance.
6. Avoid exposing the battery system to extreme temperatures or environmental conditions that could cause damage or degradation.
7. Always turn off the power supply before connecting or disconnecting the battery system, and never touch the electrical contacts with bare hands or metal tools.

These precautions ensure that ES Series battery systems are used safely and effectively in various applications.

WARNING!



**THIS SYSTEM CONTAINS
HIGH-VOLTAGE BATTERY**



WARNING:

Installation and maintenance should only be carried out by trained professionals. We do not undertake any consequences or related responsibility because of violation of safety operation or violation of design, production and equipment safety standards.

CAUTION:



1. It is required to charge the battery at least once every six months. For this charge, maintenance ensures the SOC is higher than 90%.
2. The connection of the power connector, grounding point, power cable and screw are suggested to be checked yearly. Ensure there is no loose, broken, or corrosion at the connection point. Check the installation environment, such as dust, water, insect and more, to ensure it is suitable for the IP65 battery system.
3. If the battery is stored for a long time, it must charge every six months, and the SOC should be higher than 90%.



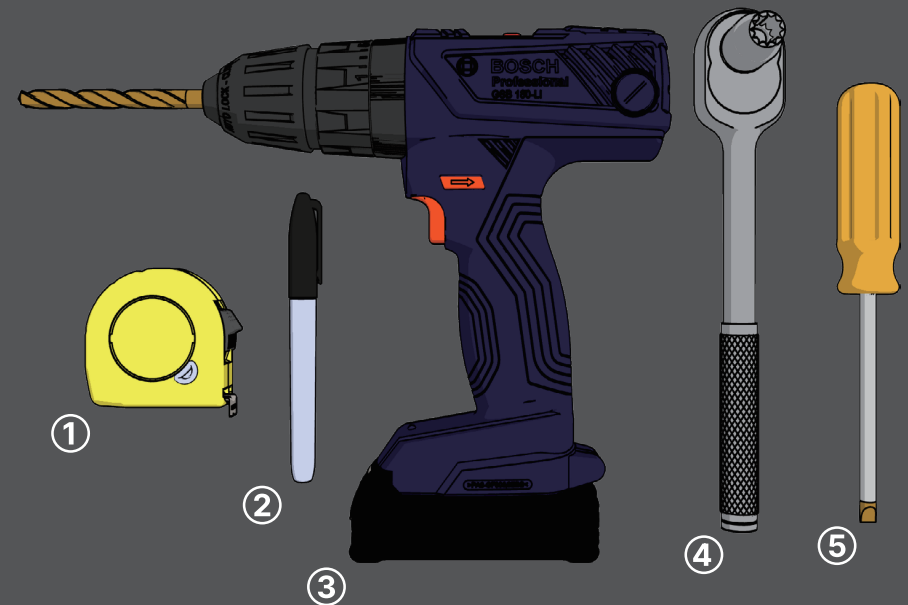
In case a battery (normal condition or damaged) needs disposal or needs recycling, it shall follow the local recycling regulation (i.e. Regulation (EC) Number 1013/2006 among European Union) to process and use the best available measures to achieve relevant recycling efficiency.

Before Start:

1. Please read this user's Manual thoroughly.
2. The ES series must be installed against load bearing wall.
3. The ES series weighs at least 42kg, and we recommend that at least two people for the installation.
4. Ensure that the site is suitable for the installation, considering factors such as space, ventilation, and accessibility.
5. Conduct a thorough risk assessment to identify potential hazards and develop appropriate mitigation measures.
6. Choose a official supplier of Eitec that can provide genuine battery systems and professional installation services.
7. Ensure that the electrical infrastructure can handle the high voltage and current of the battery system and that all electrical connections are properly installed and grounded.

Tools for installation:

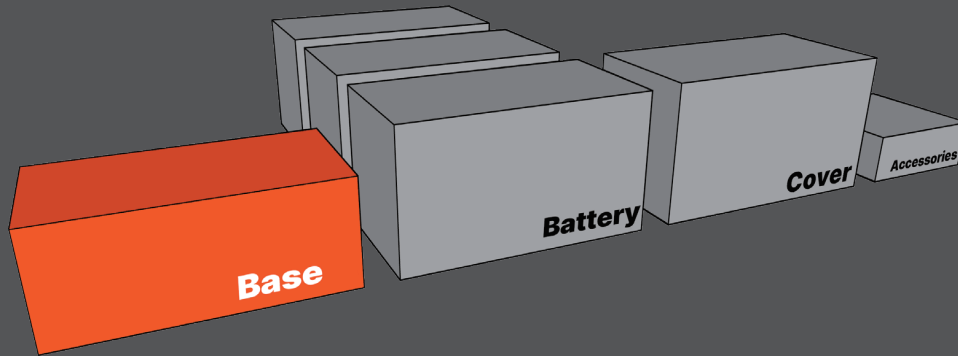
1. Tape Measure.
2. Marking Tool.
3. Power Drill.
4. Socket Wrench.
5. Screw Driver.



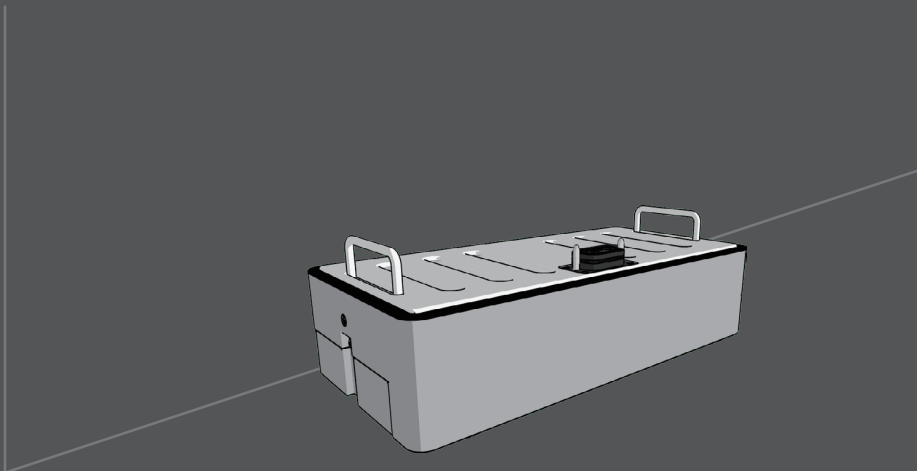
Installation

02

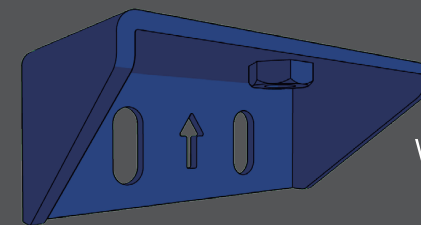
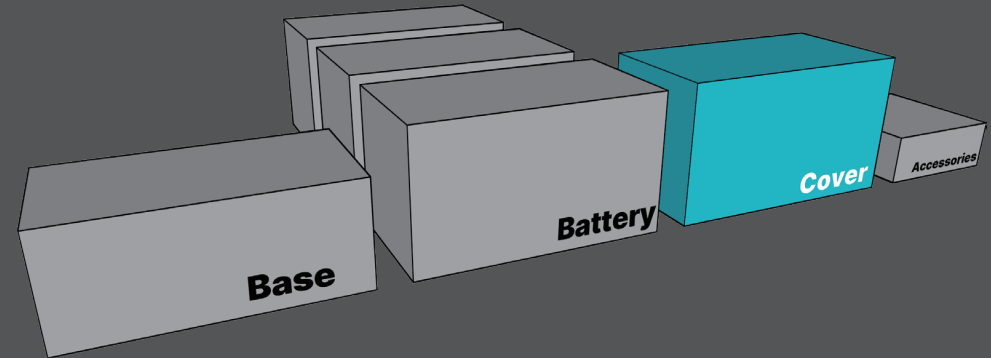
- ① Unpack the **Base Unit** package first.



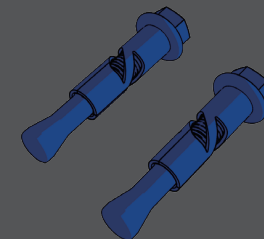
- ② Place the **Base Unit** against the load-bearing wall at the designated area.



- ③ Unpack the **Cover** package and take the **Wall Bracket** and the **Concrete Anchors** out.



Wall Bracket

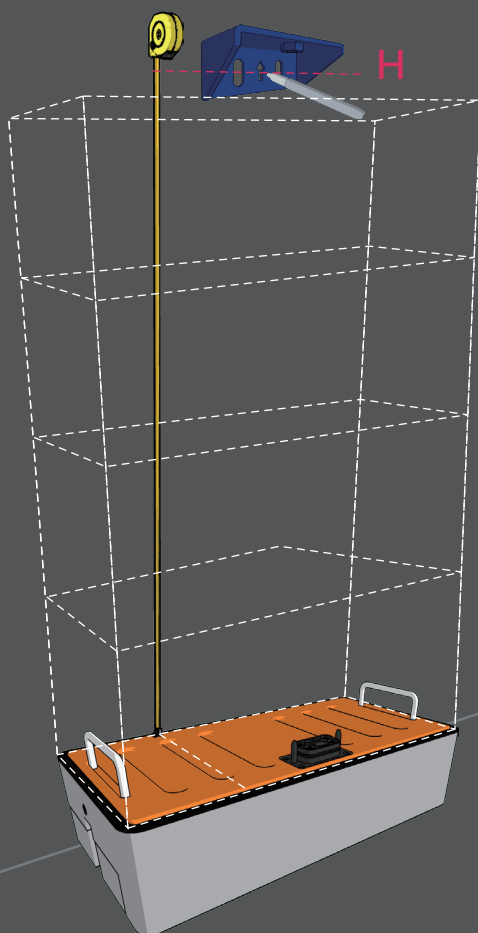


Concrete Anchors

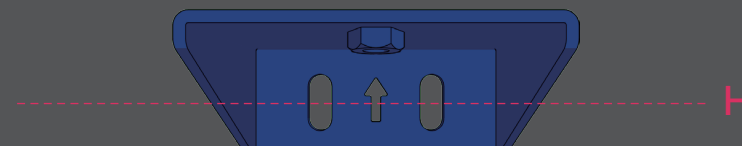
Installation

03

- ④ Mark **battery module** from the top of the **Base Unit** with a tape measure and make amarking on the wall. (**X Battery modules**) Align the **battery module** Marking with the bottom line of the **Wall Bracket**.



*Please make sure that the **UP** arrow is facing upwards



X=The number of battery module

H=The total height of battery pack

X=1,H=432+345=777mm

X=2,H=432+345+345=1,122mm

X=3,H=432+345+345+345=1,467mm

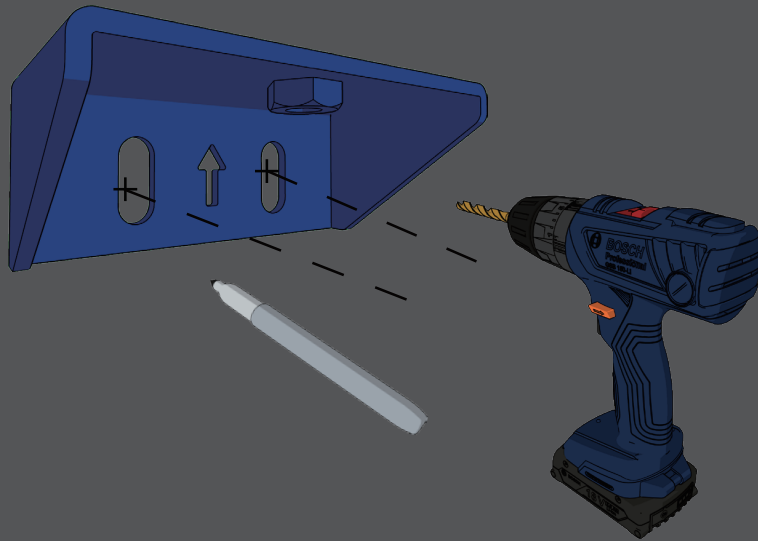
X=4,H=432+345+345+345+345=1,812mm

THIS MEASUREMENT IS ONLY SUITABLE FOR THE MAIN CLUSTER (THE CLUSTER WITH THE INVERTER UNIT ARE DIFFRENT).

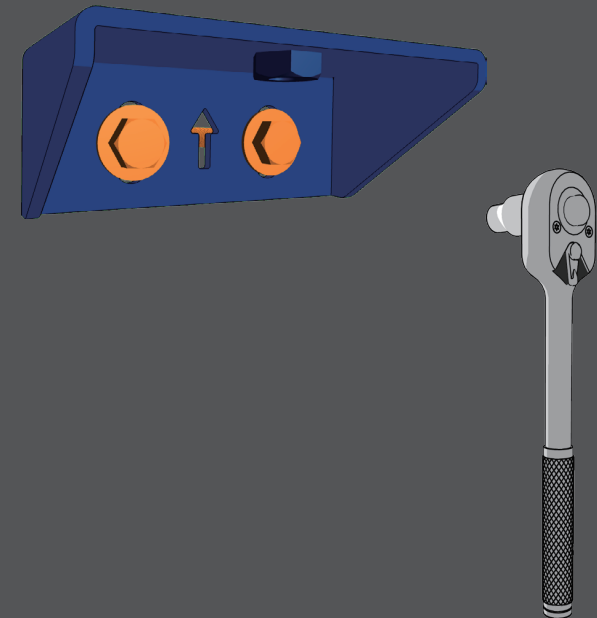
WE RECOMMEND USING BASE A FOR REFERENCE TO HAVE THE MOST ACCURATE MEASUREMENT.

*WE RECOMMEND NOT INSTALLING MORE THAN **FOUR** BATTERY MODULES ON A SINGLE CLUSTER.*

- ⑤ Mark and drill two holes with a 10mm drill bit 6cm ~ 6.5cm deep.



- ⑥ Gently tap the **Concrete Anchor** into the holes and secure them with a socket wrench or a spanner.



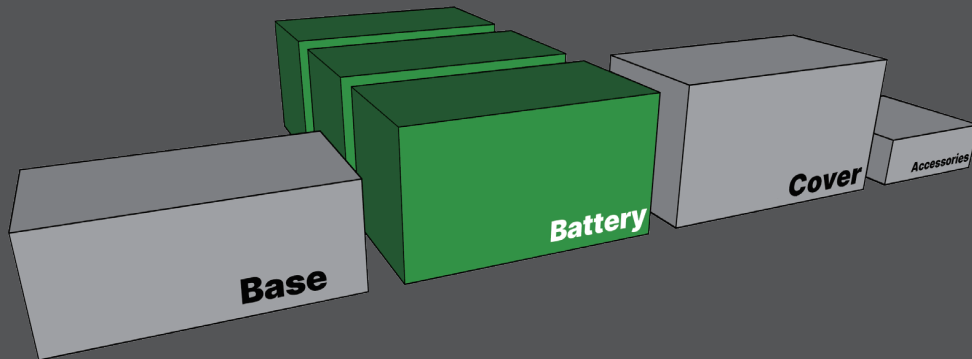
Reminder:

PLEASE REMOVE THE BASE A OR FULLY COVER UP THE BASE A BEFORE DRILLING THE HOLES TO PREVENT DUST AND RESIDUES TO CUNMULATE.

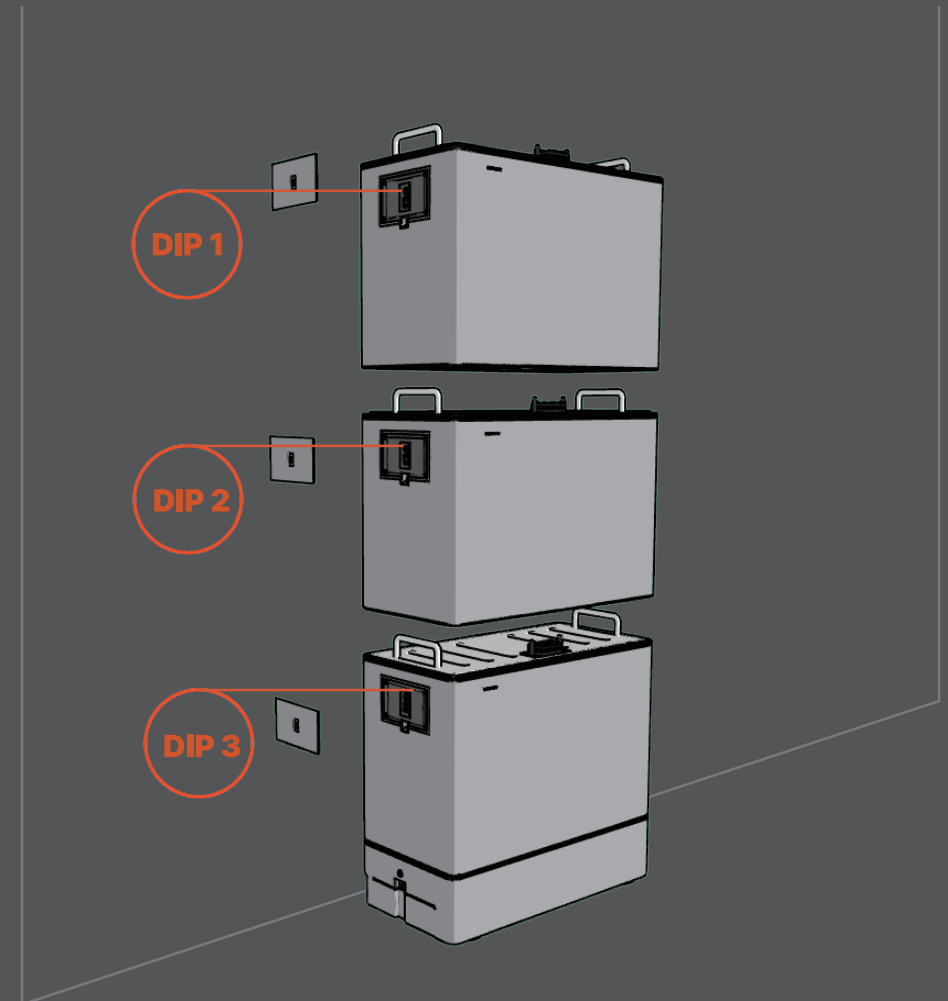
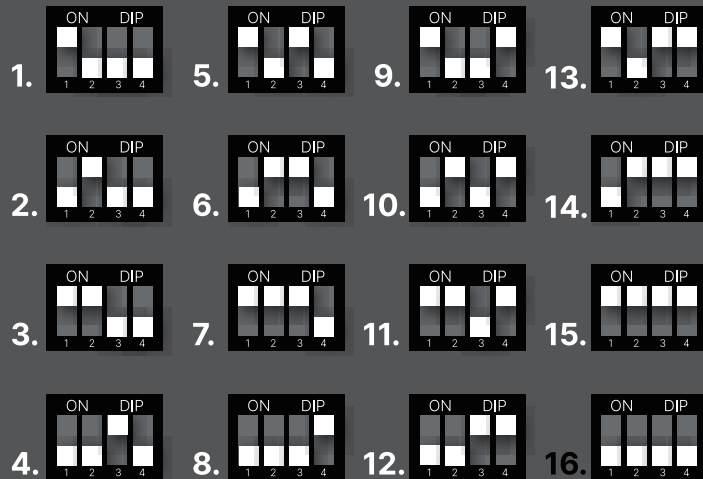
Installation

05

- ⑦ Unpack Battery Modules individually and stack them onto the **Base Unit**.



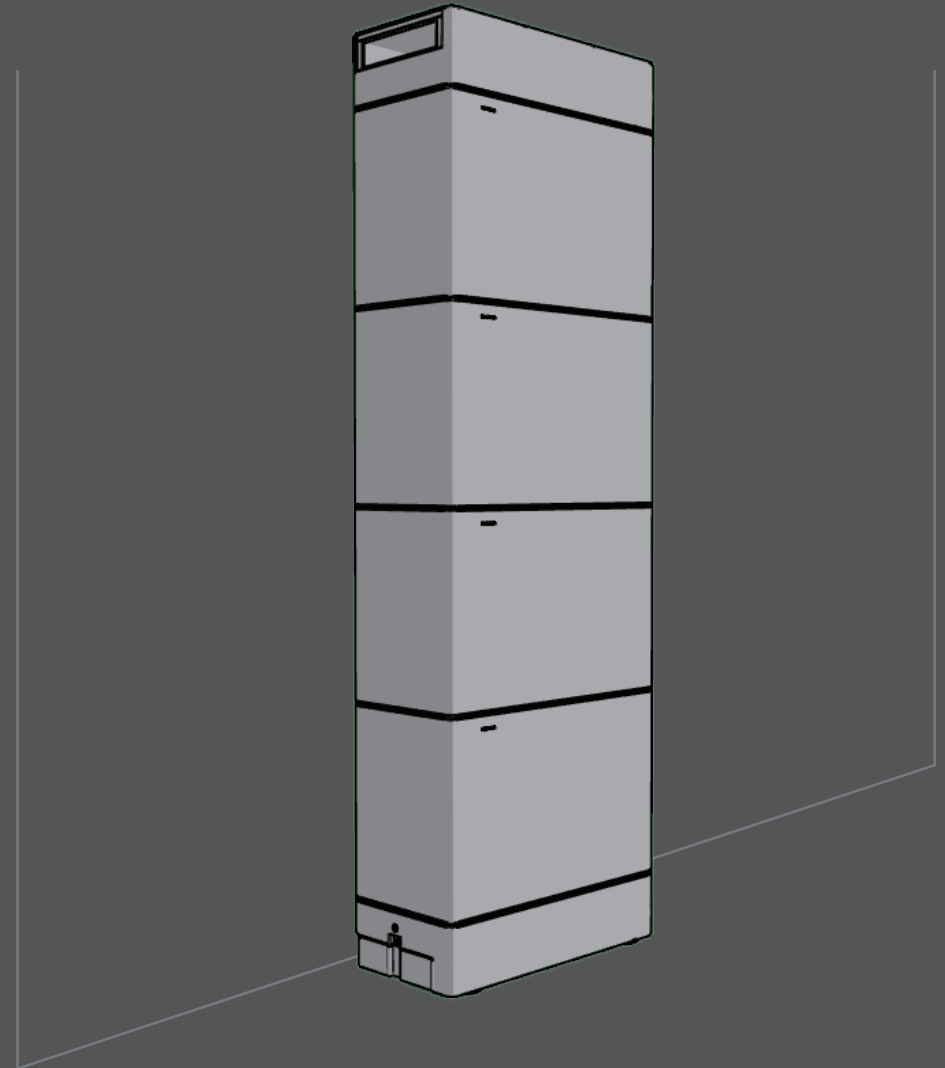
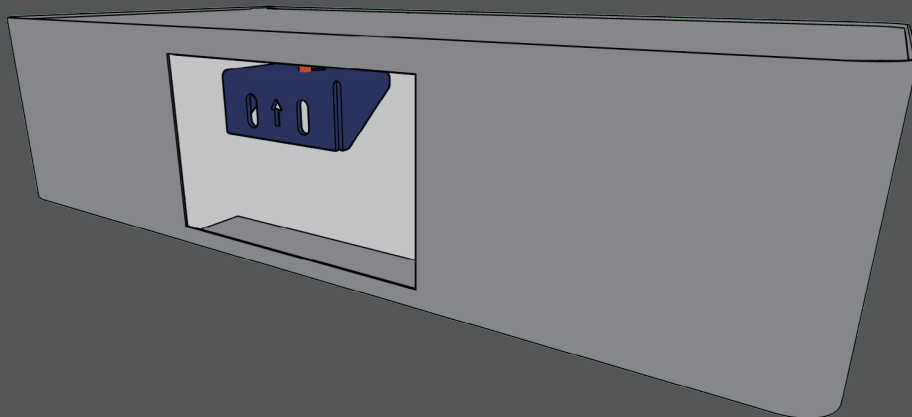
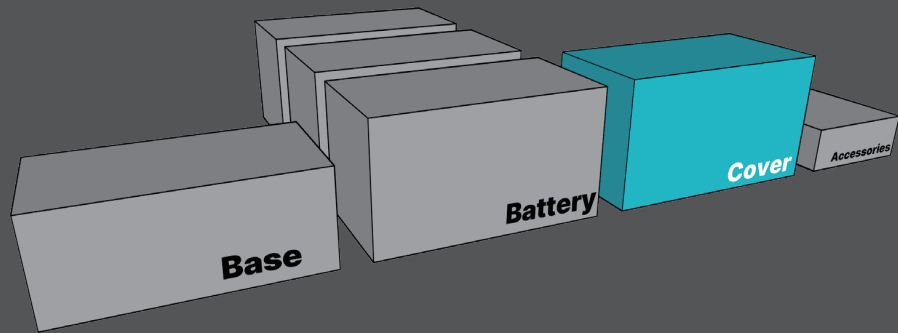
- ⑧ Checking the DIP switch, and make sure its in the right position.



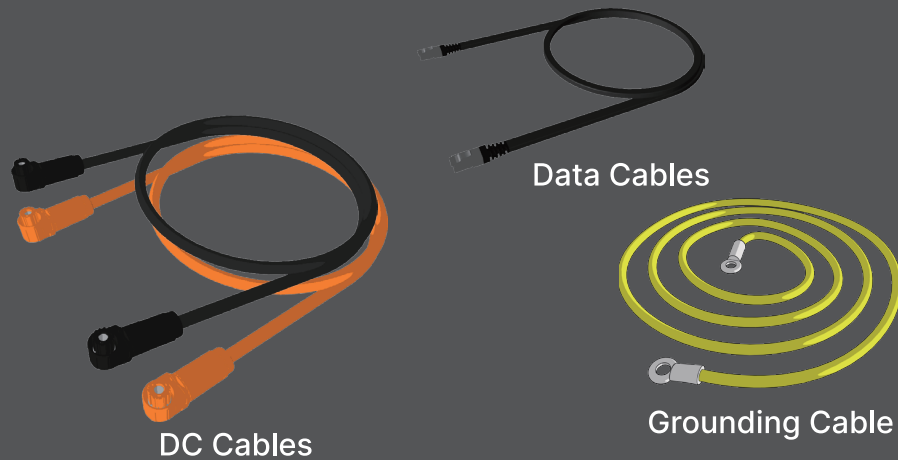
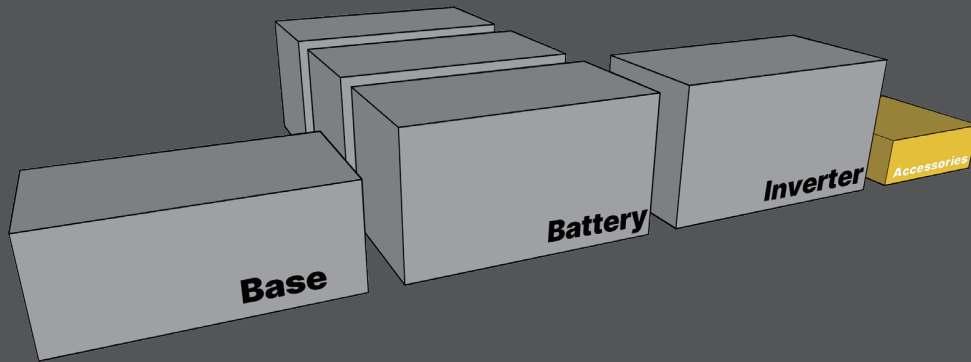
Installation

06

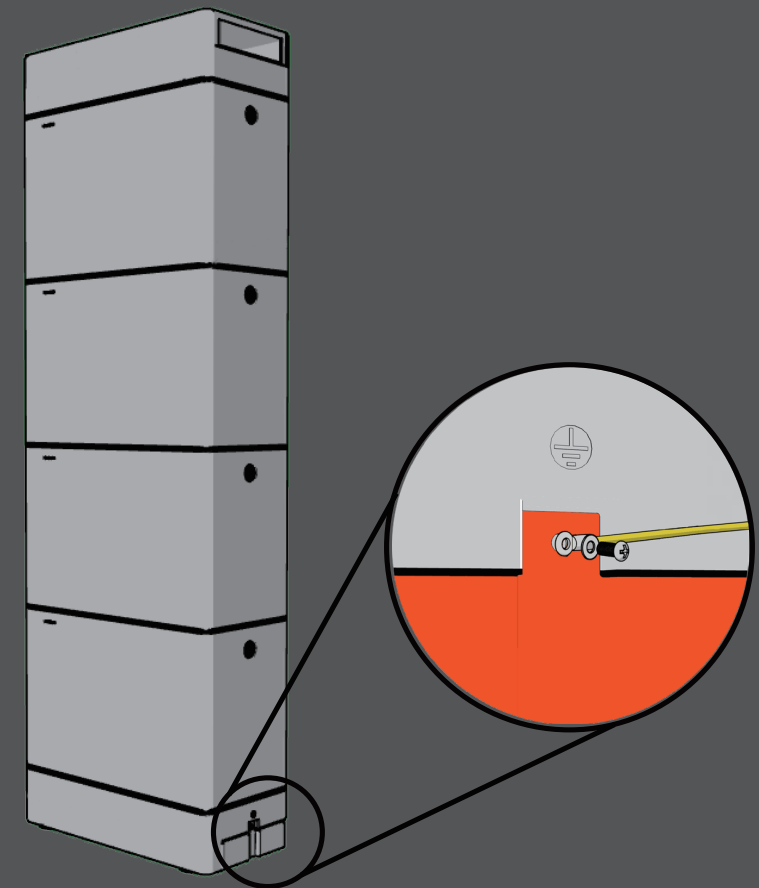
- ⑨ Unpack the **Cover** package, attach it to the top of the battery modules, carefully align the wall bracket with the backplate on the **Cover**, and secure it in place.



- ① Unpack the **Accessories** package, and inside you will find the DC cables, Grounding Cable and the Data cable. (Default configuration will be two meters long)

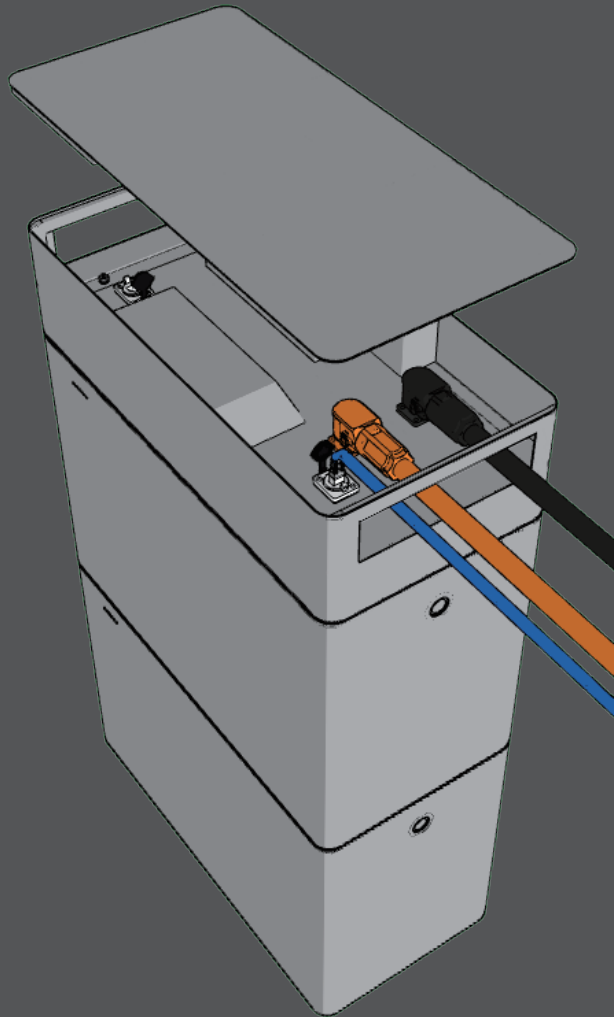


- ② As Shown, you will find a **hatch door** on the side of **Base Unit**, which has a screw sockets with Grounding markings, wire the grounding cable on the hole and connect the grounding cable to the earth.



Wiring

- ③ Plug the **DC connectors** into the Cover till you hear the 'Click'. Plug Data cable into the CAN/485 terminal.



Power on

- ① Turn on all **Battery packs**.

