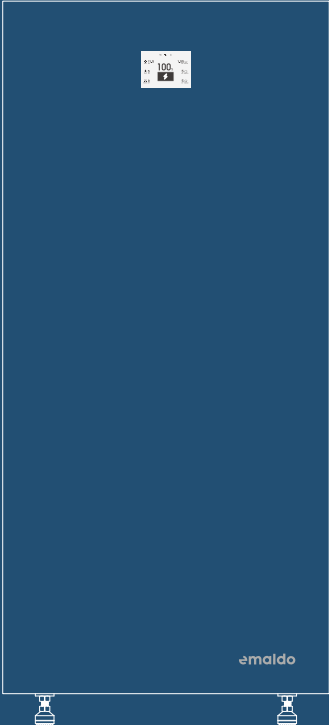


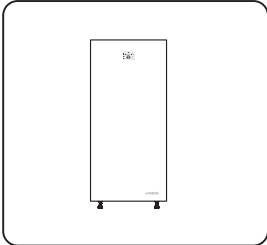
Quick Installation Guide

Emaldo® Power Core

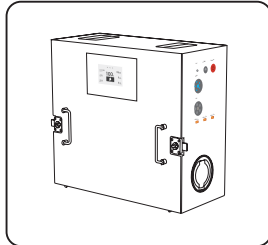


emaldo

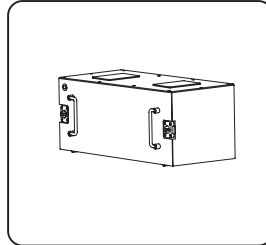
Included



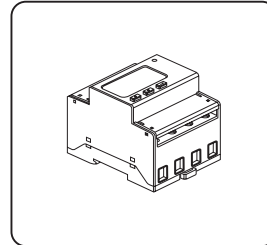
Emaldo® Cabinet x 1



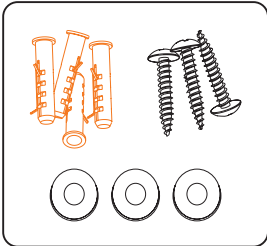
Emaldo® 3-in-1 Inverter



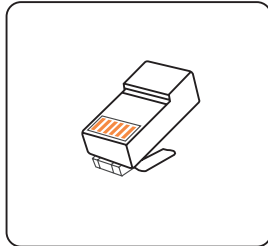
Emaldo® Power Box (Battery)



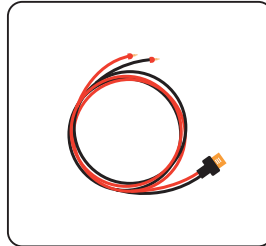
Smart Meter x 1



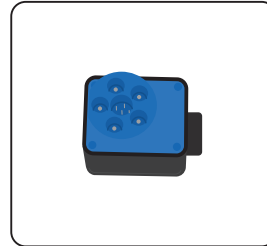
Installation Kit x 1



COM Connector x 2



MPPT Cable x 3



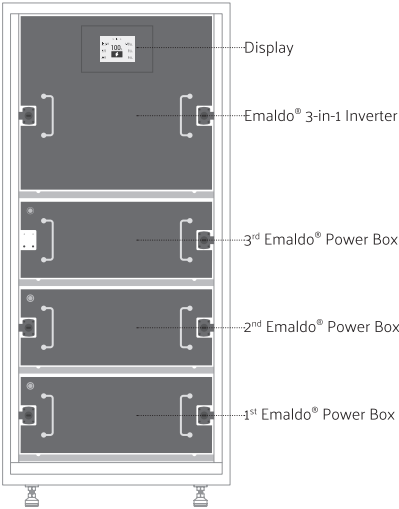
Main AC Connector x 1



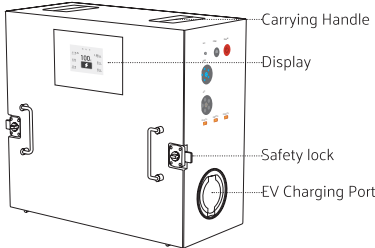
Not Included: RCD 40A 30mA Type A.

Overview

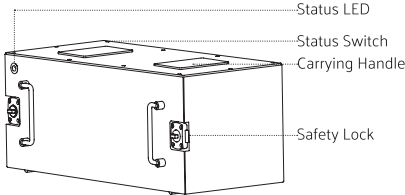
Emaldo® Power Core



Emaldo® 3-in-1 Inverter





Emaldo® Power Box



Installation of the cabinet

The Emaldo® Power Core is IP54 rated and can be installed both indoors and outdoors. Outdoor installation should be done under eaves overhang.

 Prior to drilling holes, it is imperative to exercise caution and avoid potential interference with concealed water supply lines and electrical power lines within the wall.

 It is imperative to use appropriate anchors when securing the Emaldo® Power Core cabinet to the wall. Emaldo will not assume any responsibility for any damage resulting from the use of unsuitable anchors for product installation.

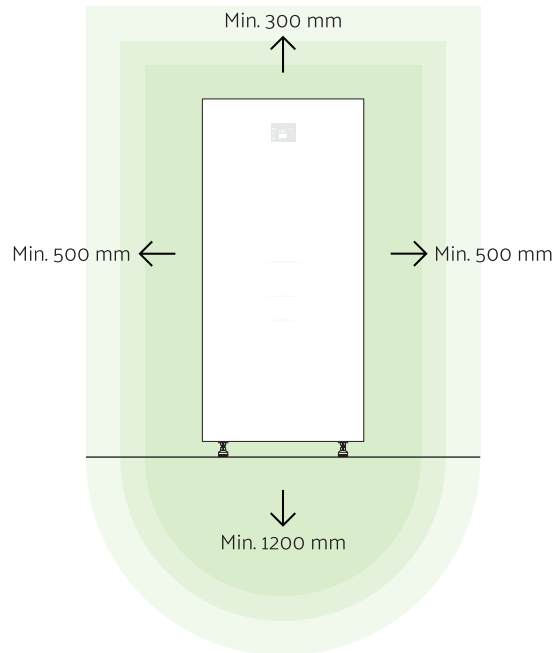
Emaldo supplies components and parts, but the diverse nature of installation surfaces may necessitate the use of additional components and parts.

Step 1

- Make sure the installation location allows for enough free space on all sides of the Emaldo® Power Core, except for the backside, which must be secured to the wall.



For installations without battery expansion cabinets, it is advisable to position the Emaldo® Power Core to the right side on the designated installation point. This arrangement facilitates potential expansion of battery cabinets on the left side in the future.



Step 2

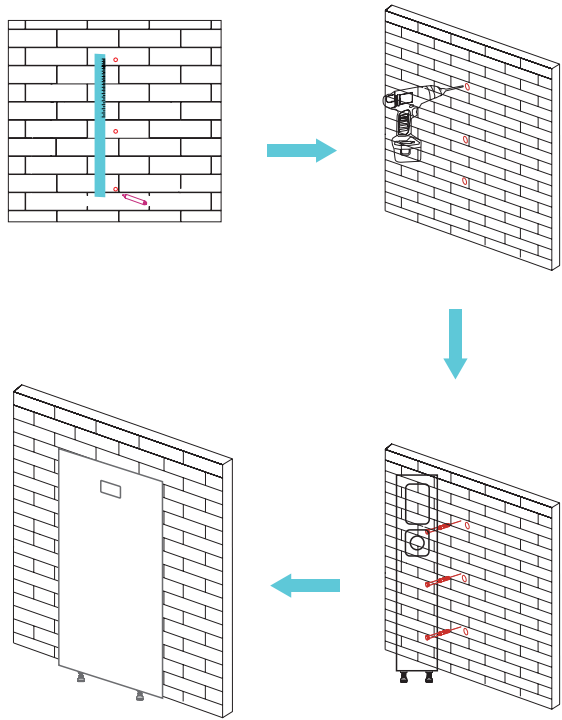
- Use a line marking template to determine drilling locations.
- Level the hole location with a leveling instrument.
- Mark the locations with a marker.

Step 3

- Use an electric drill to create installation holes for M6 bolts at the marked points.

Step 4

- Align the cabinet with the installation holes.
- Tap expansion bolts into the wall holes with a hammer.
- Install nuts, including flat washers.
- Tighten the nuts securely using a wrench.



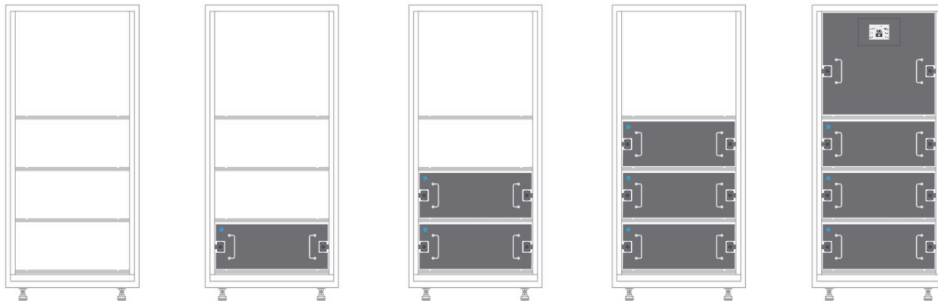
Installation of inverter and batteries

Step 1

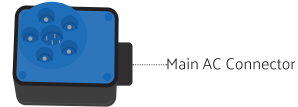
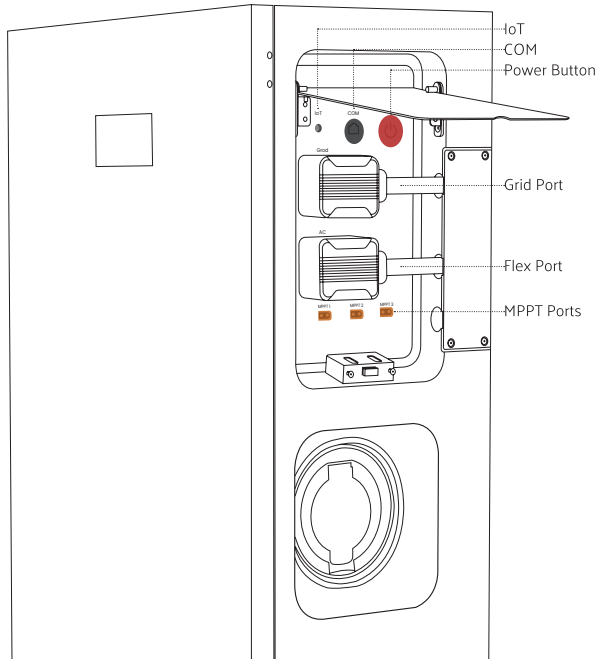
- Securely grip the top handle of the Power Box using both hands or with assistance from two individuals.
- Align the Power Box with the SlideON guide rails in cabinet, release the handle, make any necessary adjustments to its position push it in place.
- Turn the safety lock on both sides of the Battery Box to secure it in place.

Step 2

- Proceed to install the second and third Power Box and the 3-in1 inverter, in a bottom-up sequence, using the same approach.



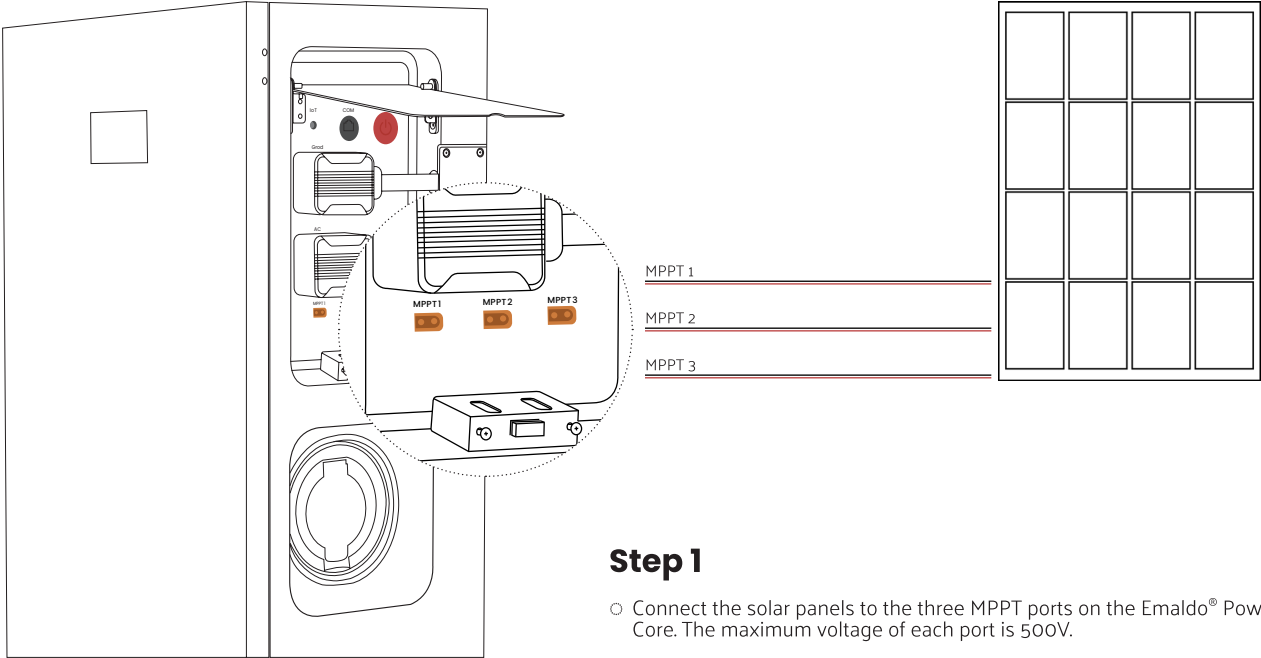
Electrical connection



Step 1

- Connect the Main AC connector to the Grid Port on the Emaldo® Power Core.
- Ensure the connection is done to a RCD of at least 25A 30mA Type B.

Photovoltaic array connection

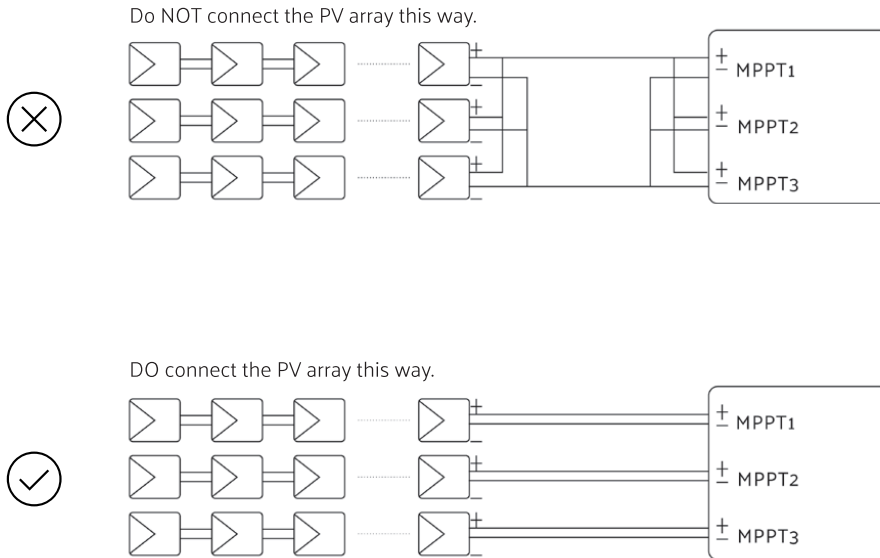


Step 1

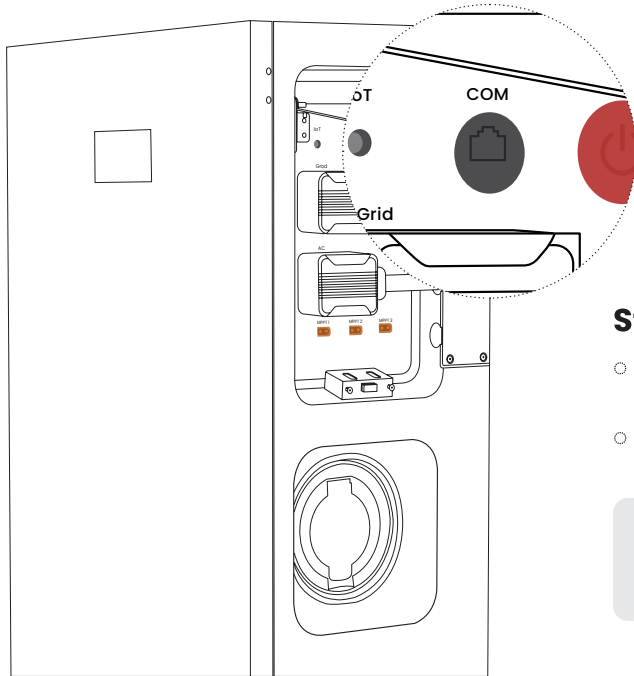
- Connect the solar panels to the three MPPT ports on the Emaldo® Power Core. The maximum voltage of each port is 500V.

Note

Please ensure to connect the PV array according to the below illustration.



Installation of smart meter



1	2	3	4	5	6	7	8
-	-	-	-	485A	485B	-	-

Step 1

- Wire the RJ-45 Ethernet cable according to the illustration. Make sure the wiring is done the same way in the RJ-45 plugs in both ends of the cable.
- Connect the cable to the COM port in the Emaldo® Power Core and to the smart meter.

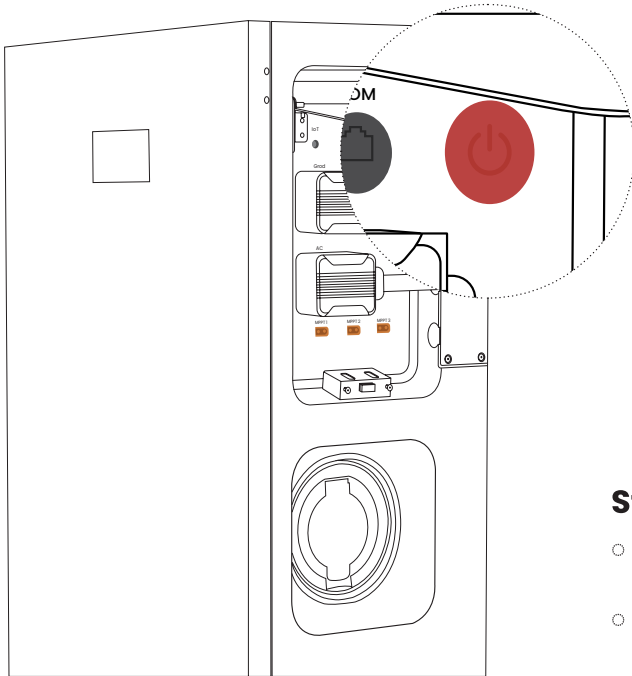


Smart meter wires go to terminals 5 and 6. This is true using both a directly wired smart meter and a CT smart meter. For more information refer to the user manual that comes with the smart meter.


Inspection of installation

- The installation of the Emaldo® Power Core has been executed with precision and security.
- The cable layout has been meticulously planned to align with the specific requirements and preferences of the end-user.
- Ensure consistent application of cable ties, cutting them uniformly to eliminate any sharp corners or edges.
- All power to the Emaldo® Power Core and its associated connections has been deactivated.
- The AC cable, Grid cable, and smart meter COM cable have been securely and reliably connected in accordance with proper protocols.
- The installation space has been appropriately organized, maintaining a clean and orderly environment with no remnants from the installation process.
- Clear information has been provided to the end-user regarding how to reach out for support and service.

Power on the Emaldo® Power Core



Step 1

- Open the cover plate on the right side of Emaldo® Power Core, and press and hold the power button until the display lights up.
- Wait for the Emaldo® Power Core to initiate. You can continue setting up the Emaldo® Power Core from the Emaldo® app, when you see this icon on the display .

Setup in the Emaldo® app

Step 1

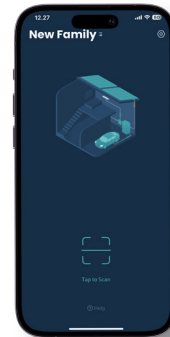
- Download the Emaldo® app by scanning the Download QR code above with the camera on your phone, or download it from either Google Play or the App Store.
- Create an account.
- Scan the Activation code above or on the front of the Emaldo® 3-in-1 inverter to connect the Emaldo® Power Core.



Download App



Activate



To learn more about the setup and settings of the Emaldo® Power Core, please refer to the App User Guide which is included with the product.

Powered by
emaldo

emaldo.com