Quick Installation Guide

SolarEdge Nexis 3ph

for Europe

In this guide you will find:

1. What's in each Box
2. What you need for the installation
3. Before you start
4. Let's get started!
5. Multi-battery configurations
6. Commissioning and indicators
7. Appendix 1 – Partial Home Backup
8. Appendix 2 – Inverter termination
9. Appendix 3 – Front-to-back multi-battery configuration
10. Appendix 4 – Disassemble a Battery Stack

MAN-01-001400-1.3

For the SolarEdge Nexis Information center, click here

SolarEdge.com

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Subject to change without notice.

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V1.2

New from SolarEdge !!

1 Auto software updates*

Just connect the inverter to the battery, internet, and AC. Then power ON the inverter and background software updates start automatically while you continue with the remaining installation tasks.

No need to wait !!

SolarEdge will let you know when the system completes the updates and is ready for commissioning.

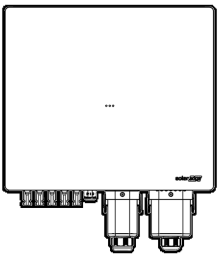
*available for wired Ethernet systems!

2 RS485 termination

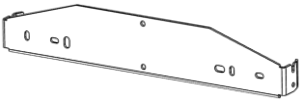
Refer to Wiring the inverter communications for important NEW details!

What's in Each Box

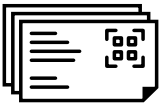
Box 1- Inverter 3ph



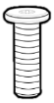
SolarEdge Nexis Inverter 3ph



Inverter wall bracket



Power rating labels x6



x3

M5 x 16 torx screws (GND and bracket)

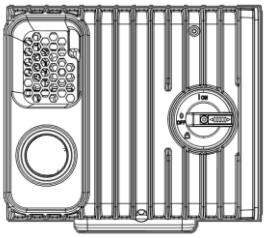


x1

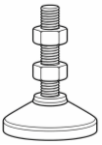
M5 x 6 (spare cup torx screws)

What's in Each Box

Box 2- Battery Link



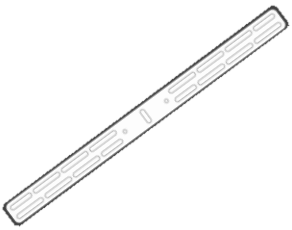
Battery Link



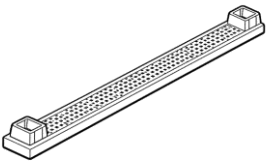
Battery Block foot



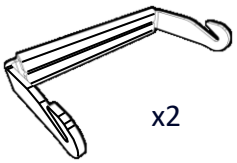
Battery Tilt bracket



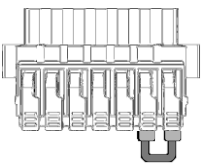
Battery Tilt bracket extension (dry wall installations)



Battery Block filter



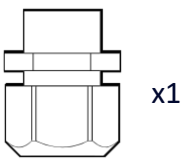
Battery Block handle



Communications connector



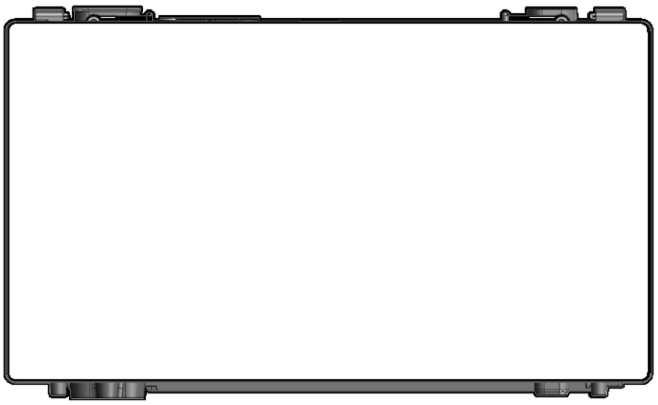
Screws M5X12 (Battery Tilt bracket and Tilt bracket extension)



Cable gland (for Battery Link wiring)

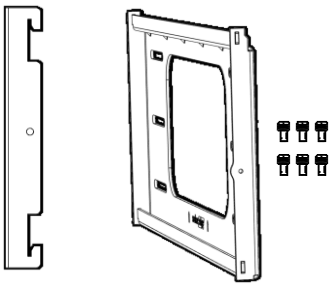
What's in Each Box

Box 3 - Battery Block



SolarEdge Nexis
Battery Block

Sold separately!



SolarEdge Nexis Wall
Mount Bracket and screws

IMPORTANT NOTE

Only one wall mount bracket is needed per battery stack.

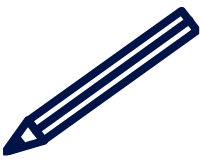
For the SolarEdge Nexis Wall Mount Bracket product guide, scan or click:

Tools Needed:

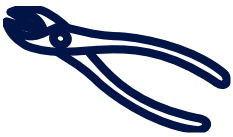
What You Need for the Installation



Drill



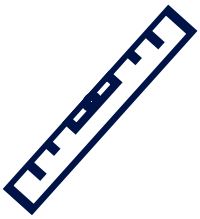
Pencil



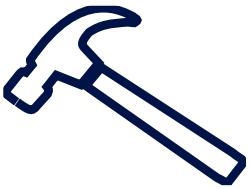
Wire cutter



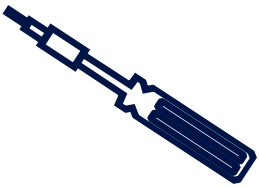
Wire Stripper



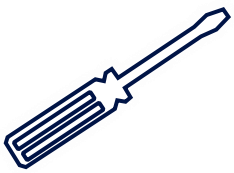
Level



Hammer



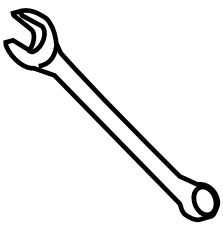
Adjustable Torque Torx Screwdriver set



Watchmaker flat screwdriver



Torque wrench

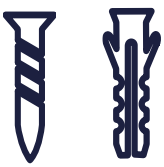


13 mm wrench (battery feet)



CAT7 cable

x4 x4



Mounting screws and wall plugs

Symbol Legend

RECOMMENDED

TORQUE: A torque value in Nm

IMPORTANT NOTE

WARNING!

This symbol denotes a hazard. The symbol calls attention to a procedure that could result in injury or loss of life if not correctly performed or adhered to. Do not proceed beyond a warning note until the conditions are fully understood and met.

CAUTION!

Denotes a hazard. The symbol calls attention to a procedure that could result in damage or destruction of the product if not correctly performed or adhered to. Do not proceed beyond a caution sign until the indicated conditions are fully understood and met.

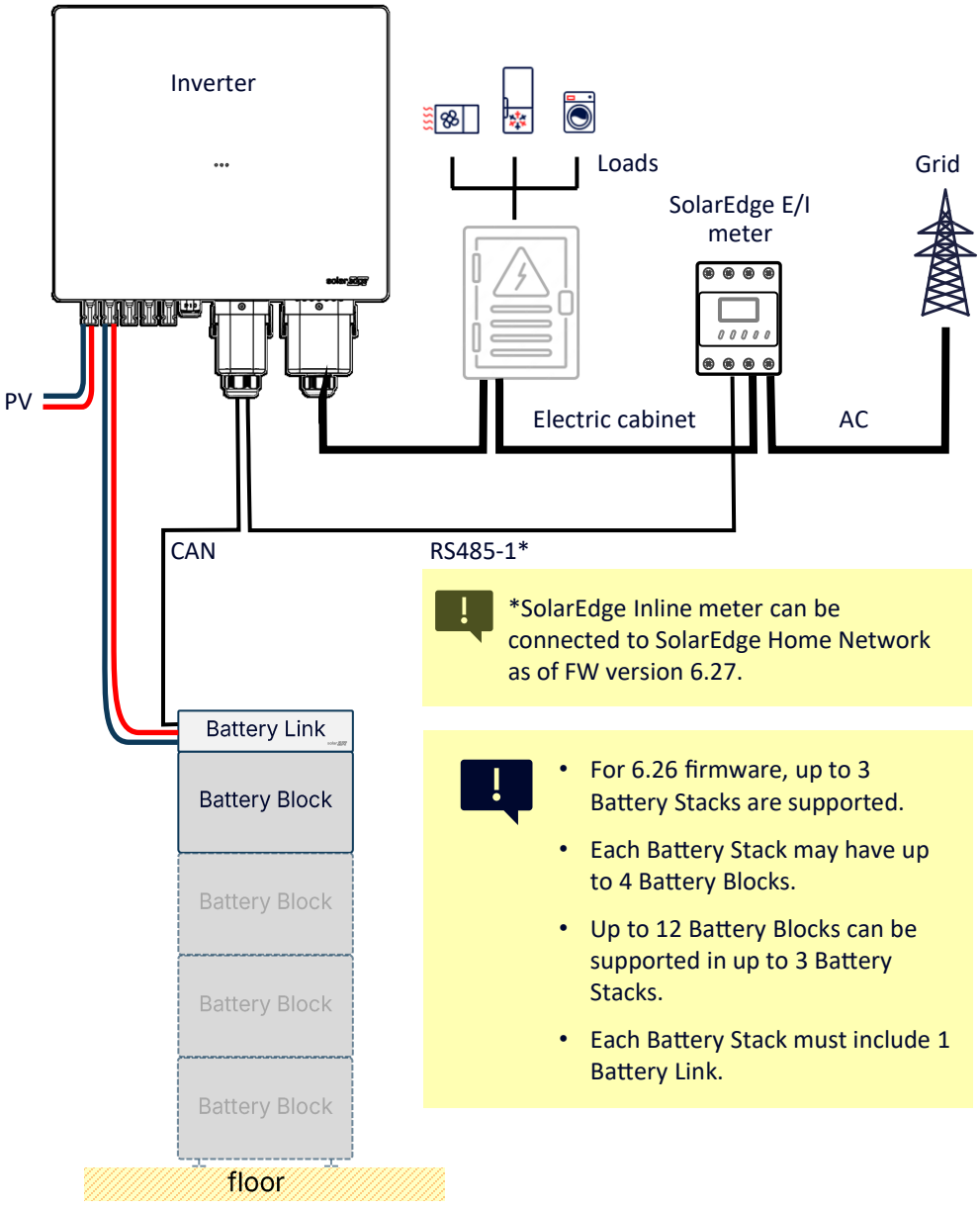
IMPORTANT!

The information in this guide is subject to change without notice.

Before you start

System Overview

PV + Storage



*SolarEdge Inline meter can be connected to SolarEdge Home Network as of FW version 6.27.

- For 6.26 firmware, up to 3 Battery Stacks are supported.
- Each Battery Stack may have up to 4 Battery Blocks.
- Up to 12 Battery Blocks can be supported in up to 3 Battery Stacks.
- Each Battery Stack must include 1 Battery Link.

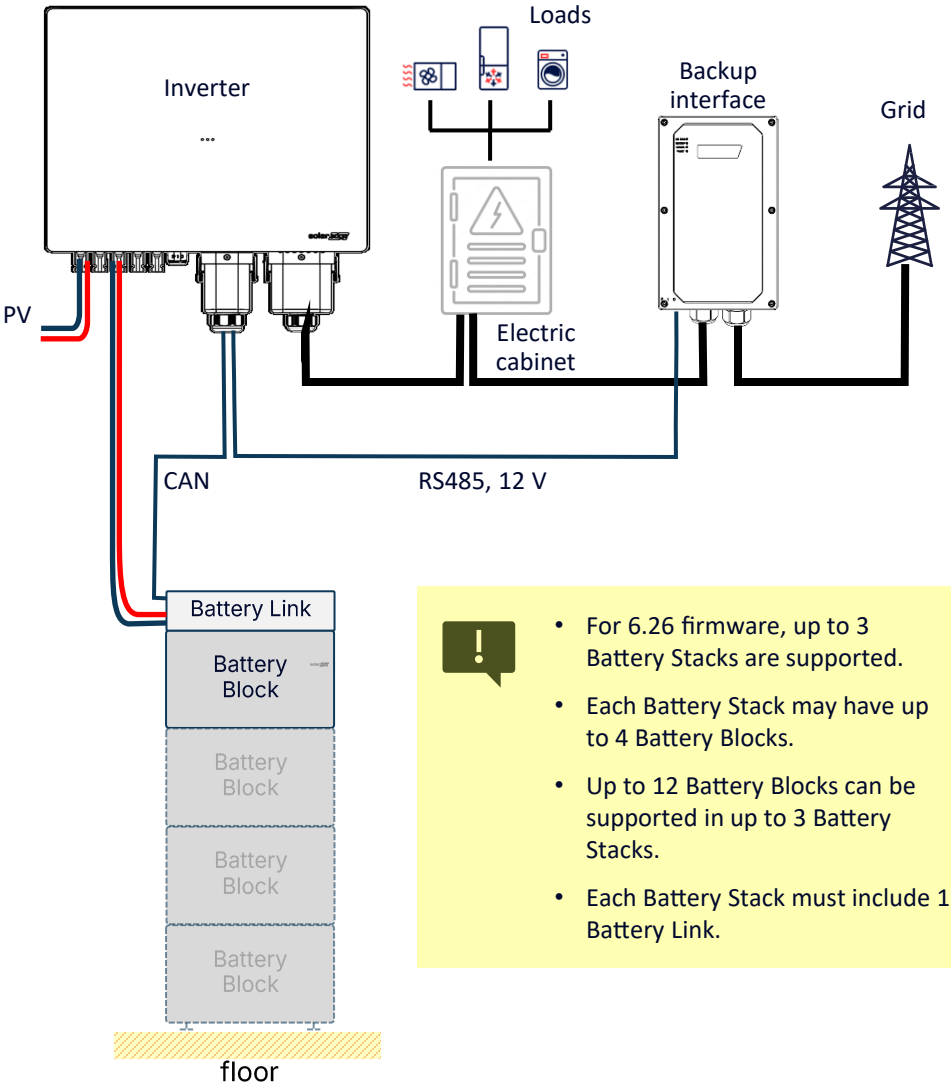
Auto software updates (only applicable for wired ethernet systems!)

Connect the inverter to the battery, internet, and AC, then power it on to start background software updates while you continue with other installation tasks.

Before you start
System Overview

Full Home Backup

For partial Home Backup see Appendix 1



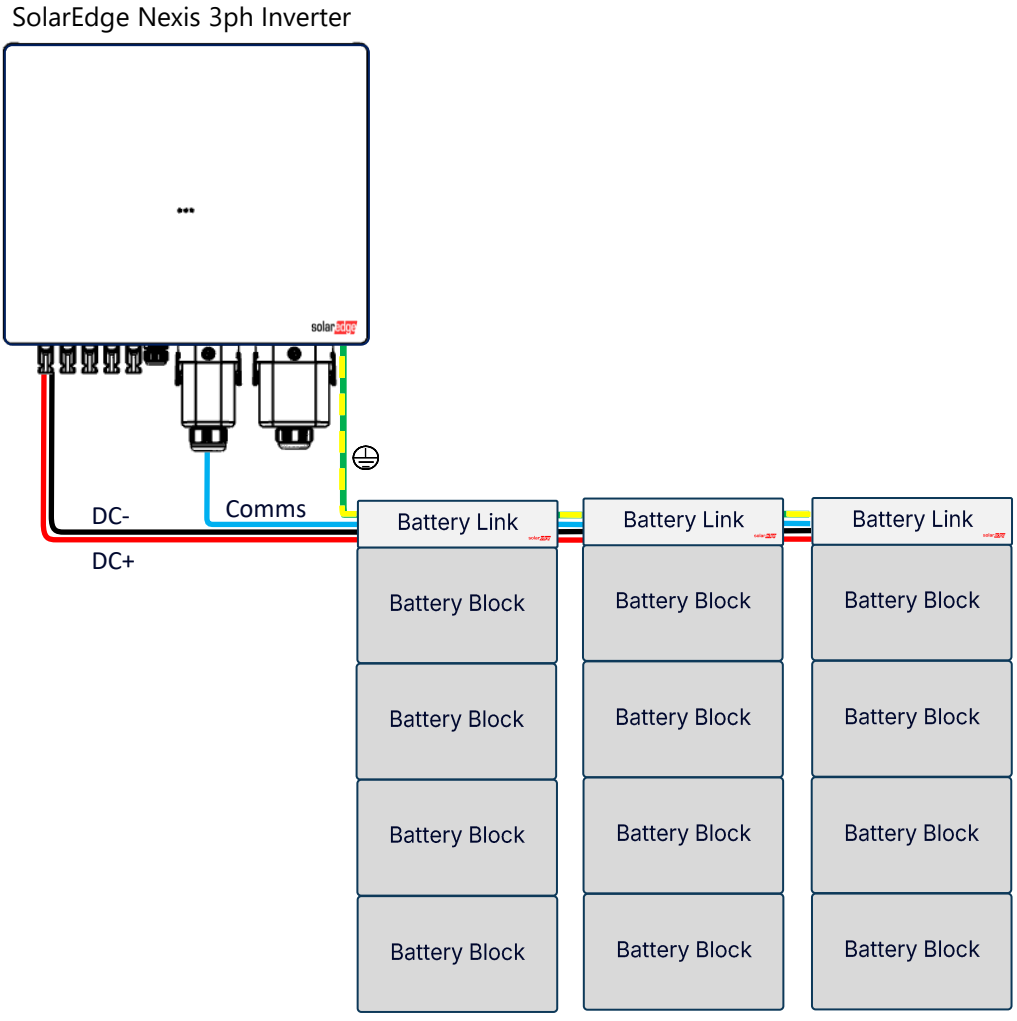
- For 6.26 firmware, up to 3 Battery Stacks are supported.
- Each Battery Stack may have up to 4 Battery Blocks.
- Up to 12 Battery Blocks can be supported in up to 3 Battery Stacks.
- Each Battery Stack must include 1 Battery Link.

*For the Quick Installation Guide for the Backup Interface, click here.

Before you start

Multi-battery configurations

Inverter at the end of the Battery Stacks
(Side-by-side or front-to-back configurations)

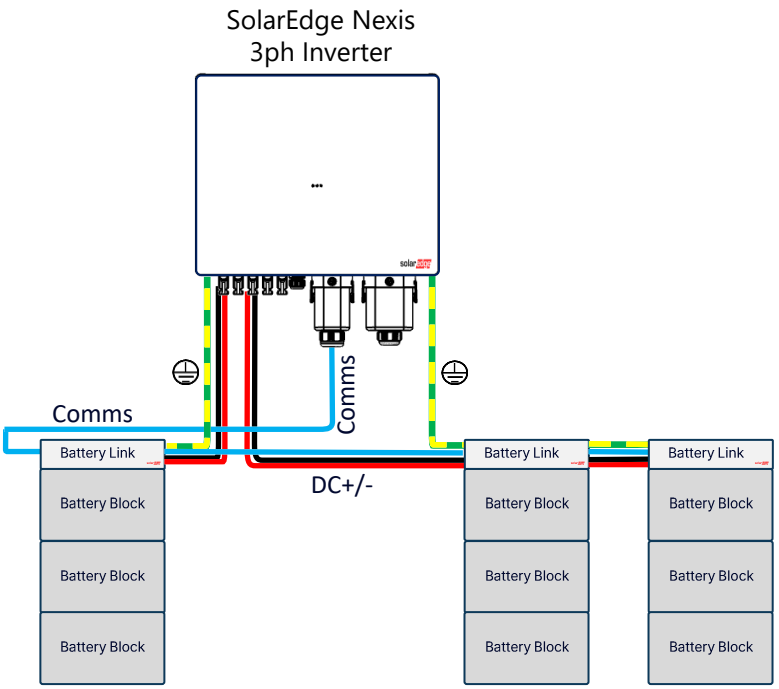


Before you start
Multi-battery configurations

Inverter in-between the Battery Stacks
(Side-by-side configuration)

Very Important !!

When the inverter is positioned between Battery Stacks, connect the CAN-bus line through all Battery Links before connecting it to the inverter. The inverter can accommodate only a single CAN-bus channel.



Let’s get started!

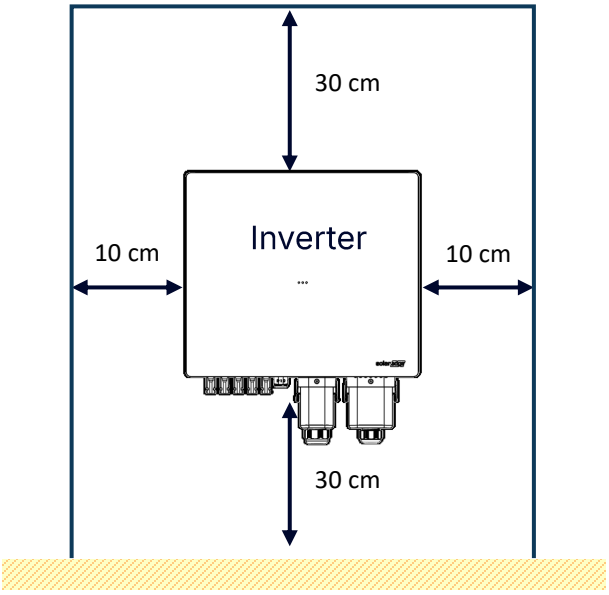
A. Planning

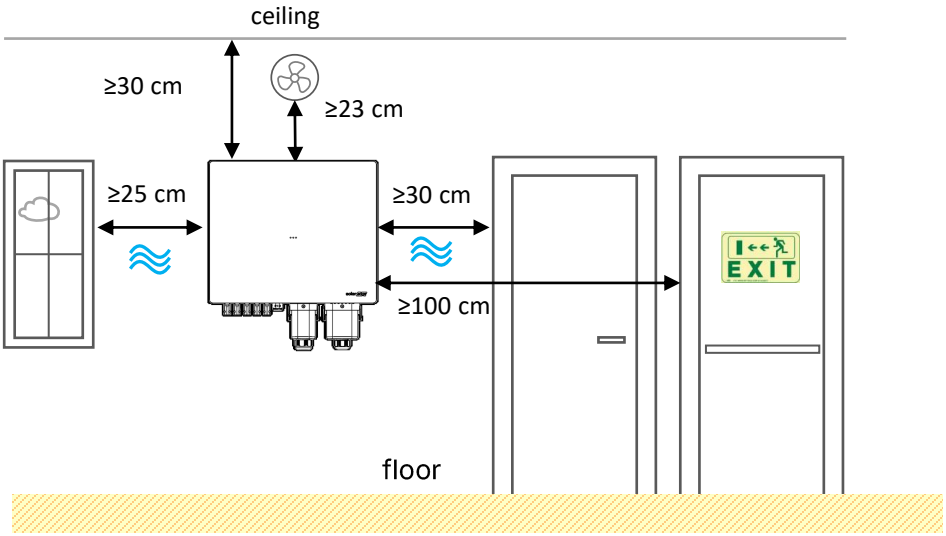
Indoor



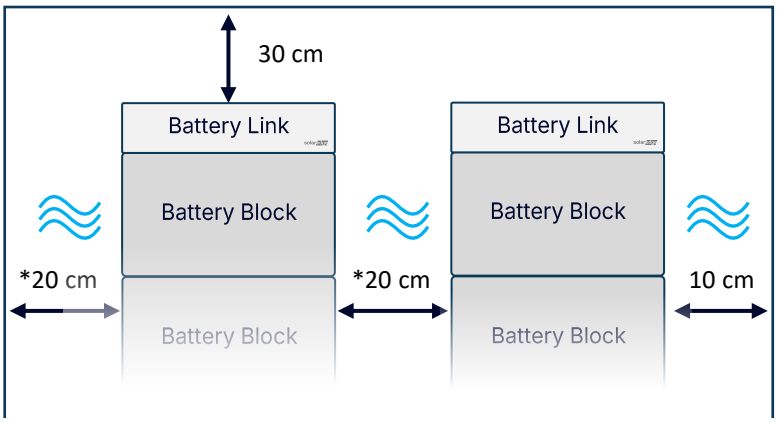
Outdoor

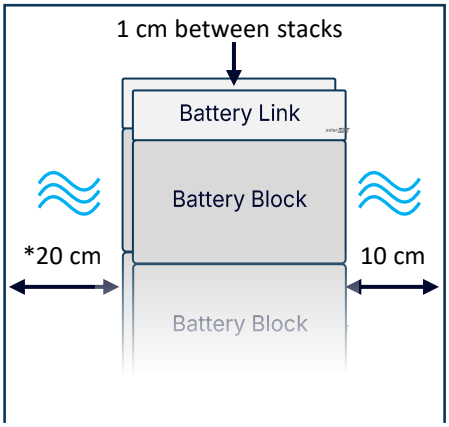


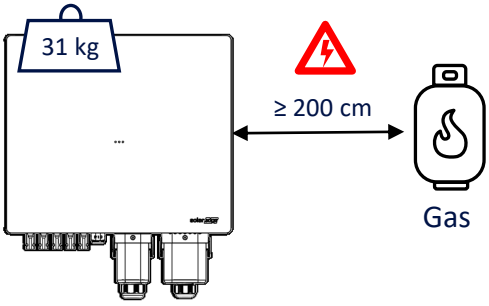




A. Planning





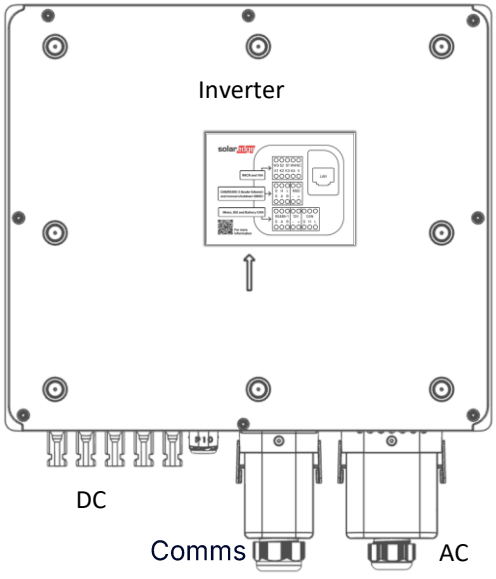


Inverter-to-battery maximum distance		
Cable cross-section (mm^2)	**Up to 4 Blocks**	**More than 4 Blocks**
6	50 m	30 m
8		40 m

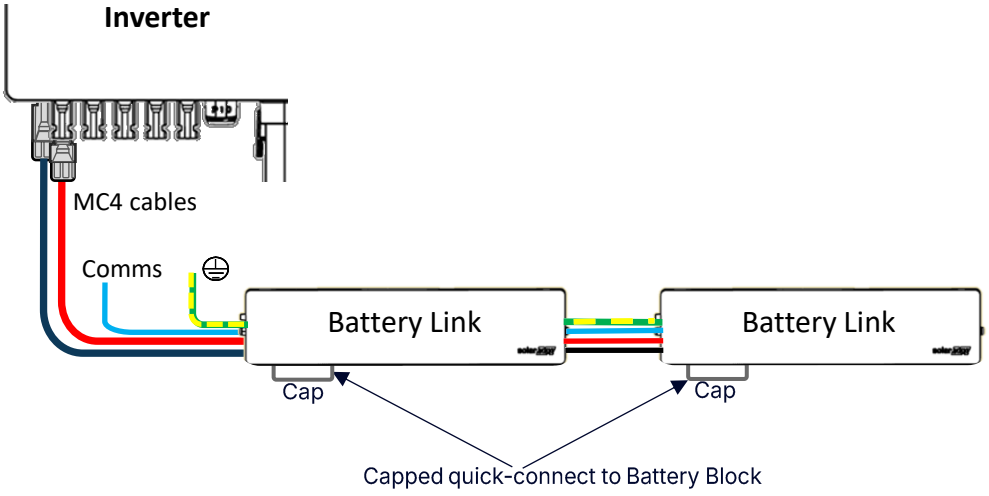
BATTERY PLANNING:

- 10 cm is allowed, but 20 cm is recommended for servicing the Battery Block/s.
- Minimum distance to window or door is 30 cm
- For all cable length options, refer to the Configuration Guide.

B. Wiring Considerations



- Use either the left or the right side of the battery link for connection to the inverter (DC, Comm and GND)
- Connection of DC cables from the Battery Link to the Inverter should be + to +, and – to –
- Communication and GND as indicated on the product
- Maximum distance between the furthest battery and the inverter is 30 m when using 6 mm^2 DC cable and shielded CAT7.



C. System General installation guidelines

Order of installation

Power OFF all devices and all circuit breakers. → Mechanical installation → Wiring:

- Inverter
- Battery
- BUI / Meter
- Accessories

↓

Power ON:

- Backup interface
- Battery Link
- Inverter CB; P/1/0
- Accessories

←

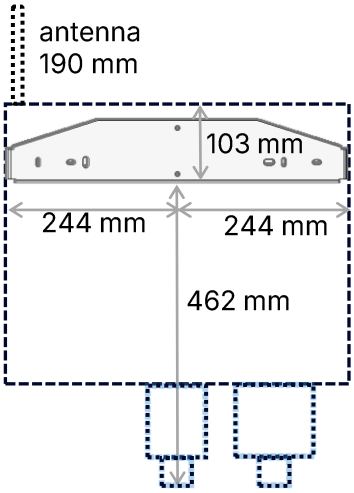


Reminder - Auto software updates

*Only applicable for wired ethernet systems!

To save valuable commissioning time, we recommend that you first connect the inverter to the battery, internet, and the AC, and then turn the system ON for background software updates. You can then proceed with other installation activities while the software is updating.

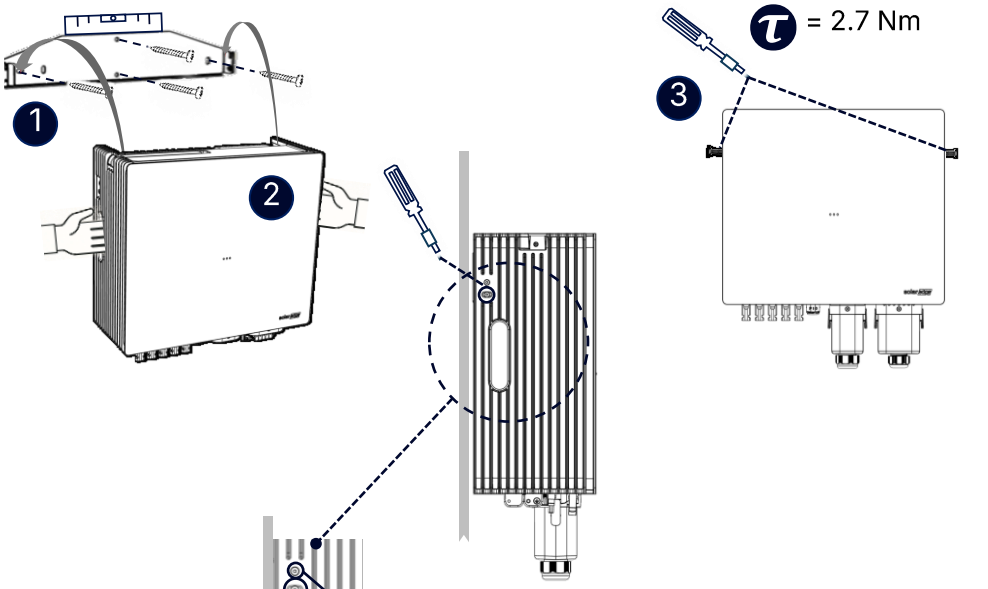
Mounting the inverter



Use these measurements to ensure that the inverter will easily fit in the planned space available when attaching the wall-mount bracket to the wall.

M5 × 16 screws x2

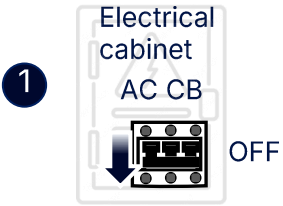
τ = 2.7 Nm

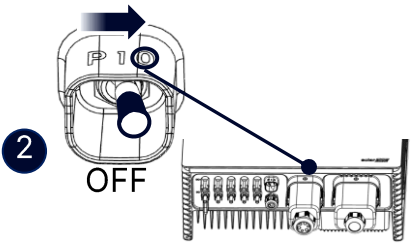


- Pre-assembled pins to hang the inverter on the bracket. Do NOT unscrew!
- Screws x2 used as to secure the inverter to the bracket

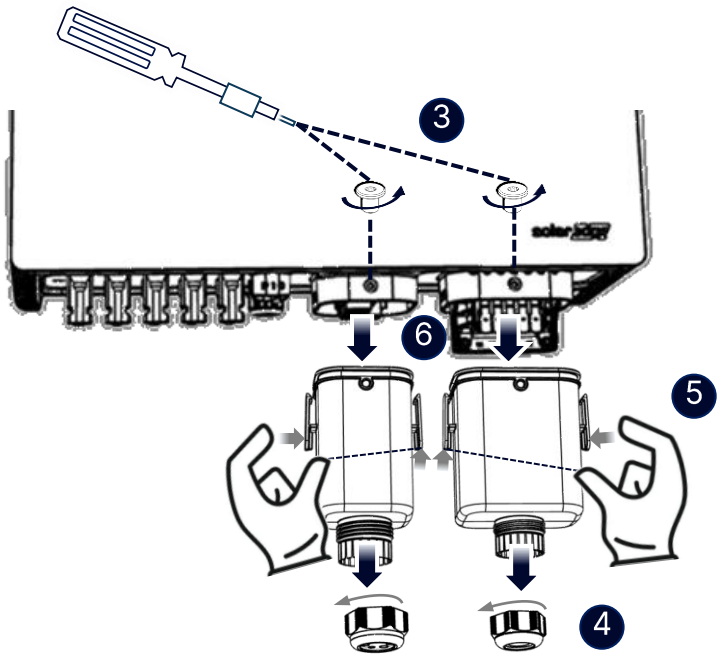
Wiring the inverter

Before wiring:

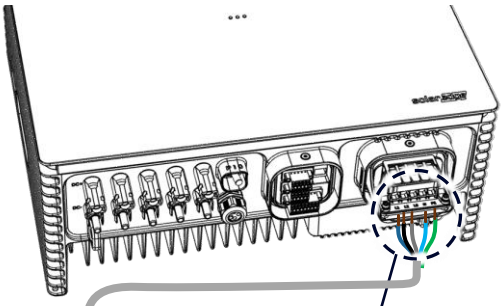


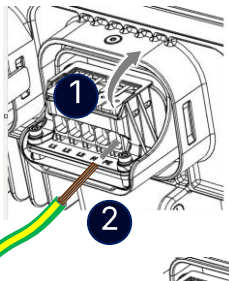


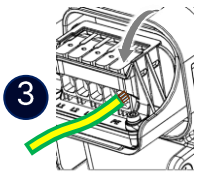
Wait at least 5 minutes before moving to Step 3.



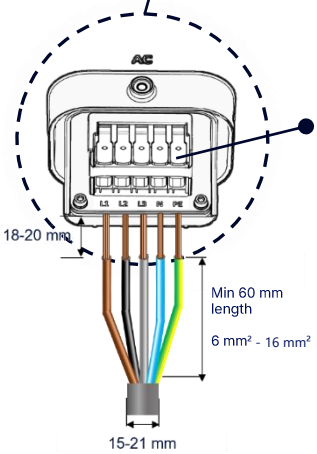
Wiring the inverter AC



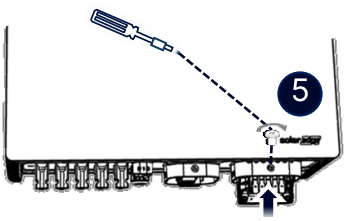


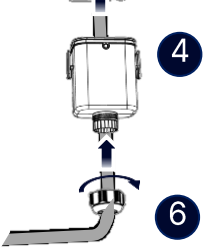


AC



1.Lift lever
2.Insert wire
3.Lock lever
4.Check that the wire is securely connected



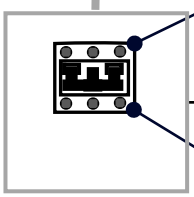


AC

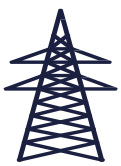
When planning to upgrade to a Backup system, make sure to consider the Backup power which may be higher than the original On-grid AC production.

Inverter	Circuit breaker
8 kW	16 A
10 kW	20 A
13 kW	25 A
>13 kW	32 A

Make sure that the circuit breaker rating matches the continuous current and the power rating of the inverter according to its datasheet.



Grid

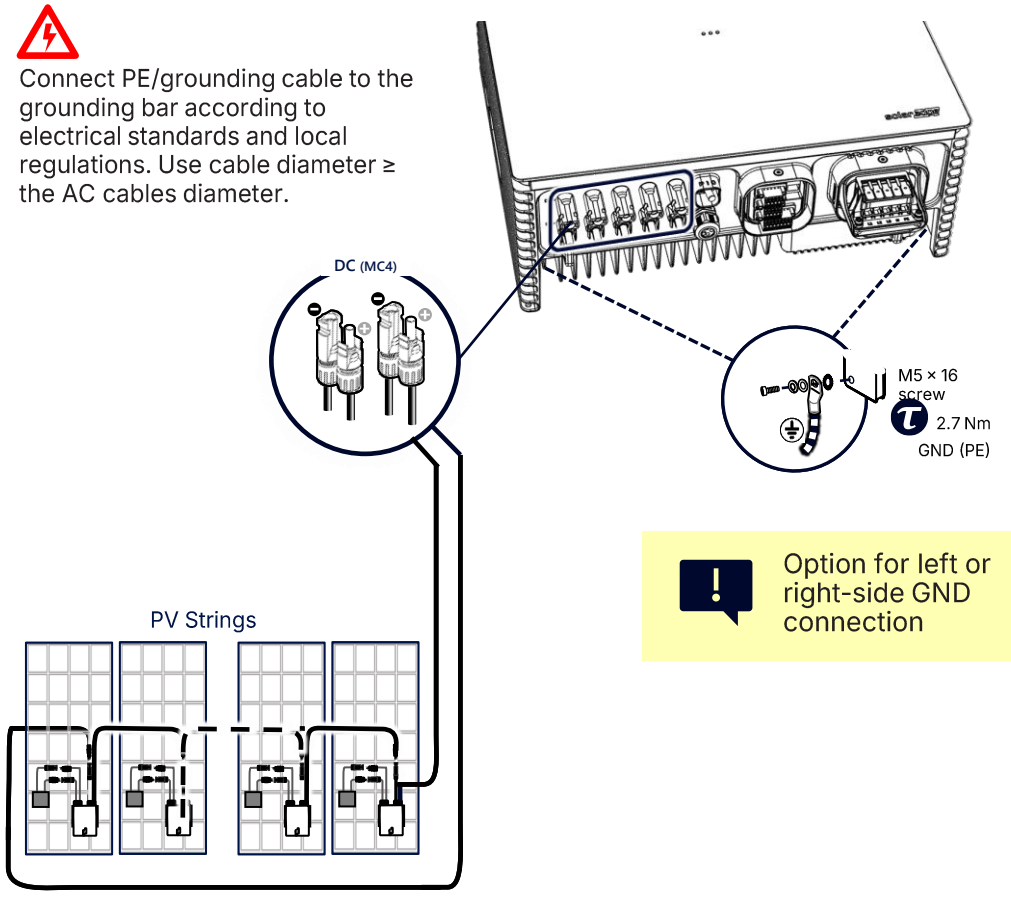


Electrical cabinet

The unit is compatible with an RCD Type A

Wiring the inverter DC (PV)

Connect PE/grounding cable to the grounding bar according to electrical standards and local regulations. Use cable diameter ≥ the AC cables diameter.



Option for left or right-side GND connection

Wiring the inverter communications

There are three different RS485-1 termination configurations for the inverter:

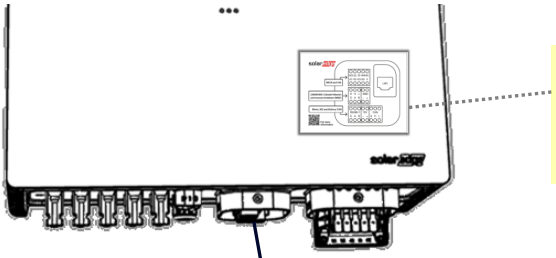
a. Three termination plugs on the communication connectors as shown below.

b. One termination plug on the A and B RS485-1 comms connector

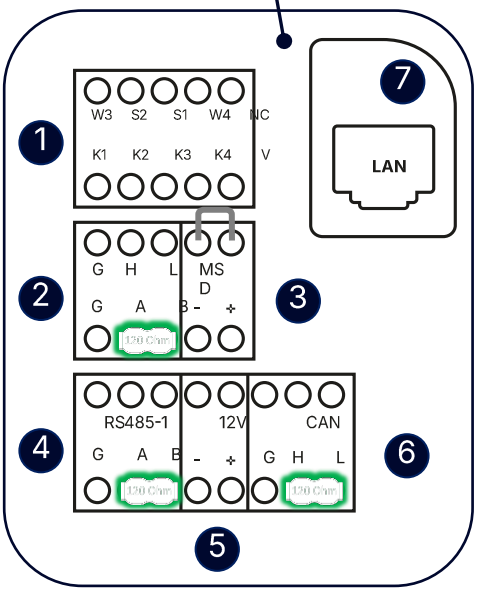
For the above 2 cases:

- The inverter RS485-1 is terminated either for BUI **OR** meter connections. **No need to change anything!**
- For BUI **AND** meter connection **together**, **REMOVE THE TERMINATION PLUG!**

In the third case, the inverter has no termination plugs. In this case, when it is necessary to set the inverter RS485 termination to ON, you must open the inverter. Refer to Appendix 2 for detailed instructions.



Label is found on the inverter below the decorative cover.



1. RRCR / 14a
2. CAN / RS485-2 (leader/follower)
3. Manual Shutdown (MSD)
4. Meter and BUI RS485-1
5. BUI 12 V
6. CAN – Battery
7. LAN

120 Ohm = termination plug

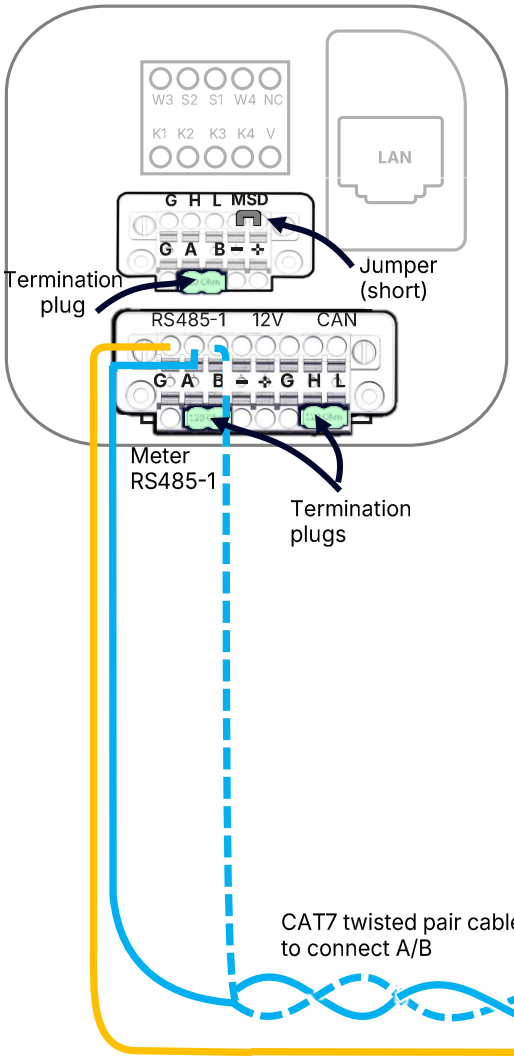
The connector plugs are pre-connected to the inverter. Release the screws to remove the connectors.

Wiring the Meter RS485-1

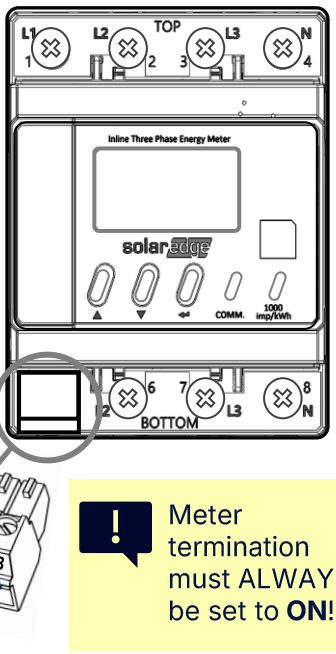
Inverter RS485 termination settings:

- When connecting **either** a meter **OR** a BUI – set RS485 termination = **ON**. For inverters **with** external termination, leave the termination plug in place. For inverters with no external termination, open the inverter and set the termination to **ON** as per Appendix 2.
- When connecting **both** a meter **and** a BUI – set RS485 termination = **OFF**. For inverters **with** external termination, **remove** the termination plug from the connector. For inverters with **no** external termination, do nothing.

To easily connect the communication cable, remove the two side screws and the connector, and after making the connections, reinsert the connector and tighten the screws.

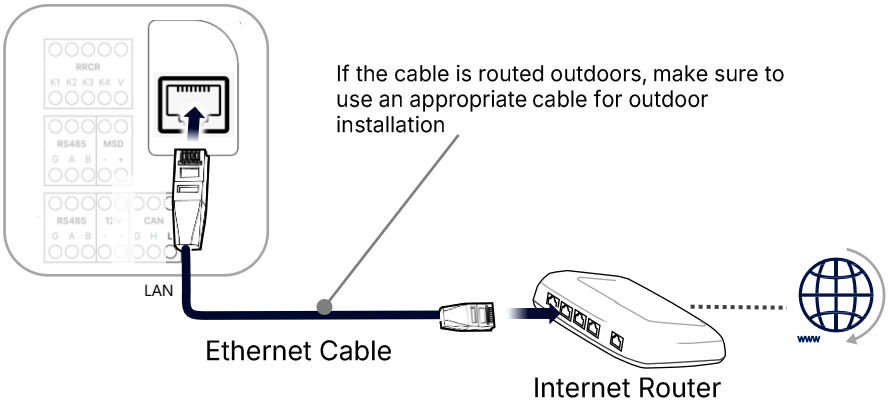


The SolarEdge Inline meter supports SolarEdge Home Network. The Nexis Inverter does **NOT** support SolarEdge Home Network. It will be supported in the future.



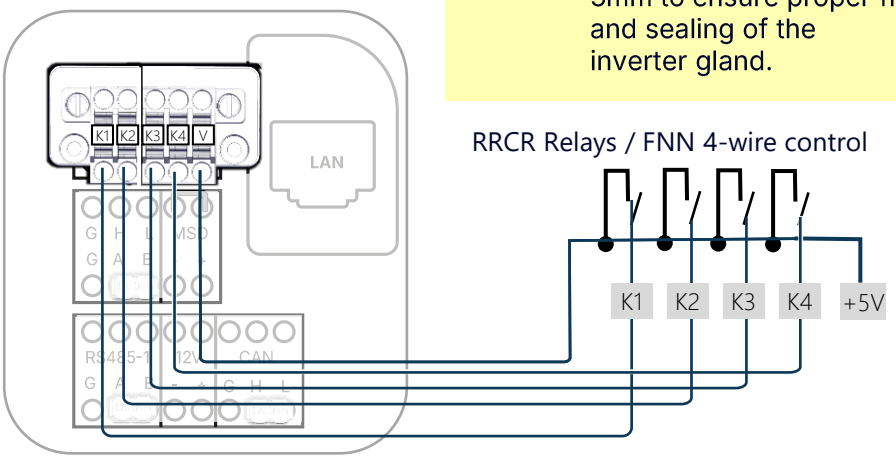
Meter termination must ALWAYS be set to **ON**!

Wiring the LAN

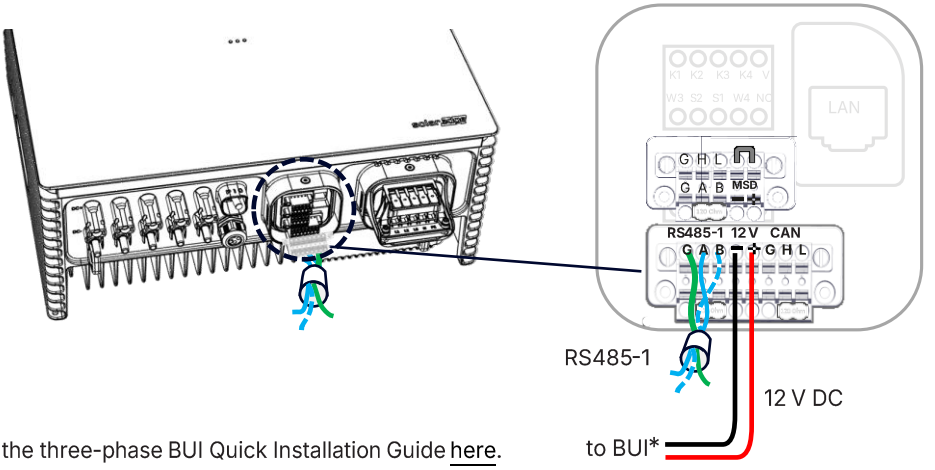


Wiring Radio Ripple Control Receiver (RRCR) / 14a Controller

Use minimum 5-wire cable (not supplied) with an external diameter of 5mm to ensure proper fit and sealing of the inverter gland.

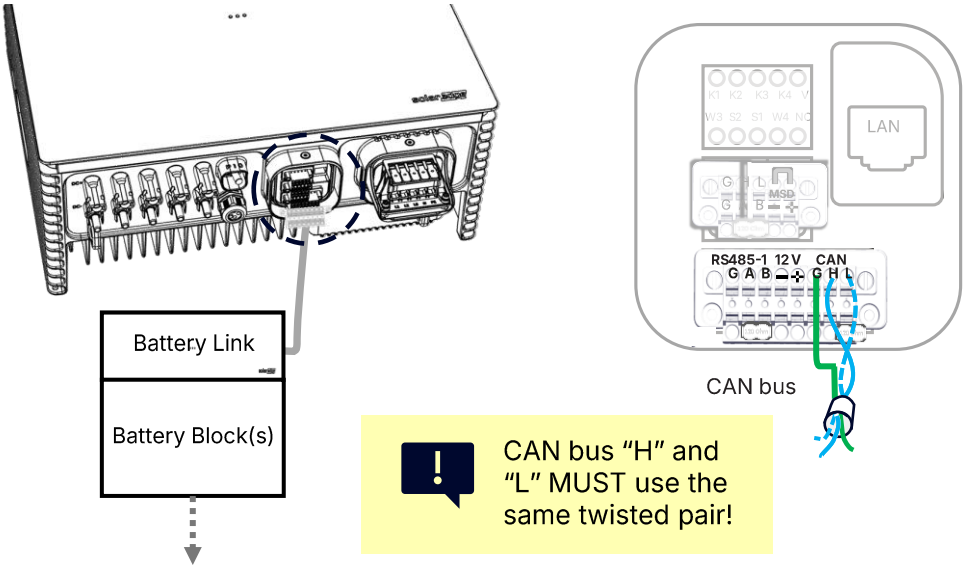


Wiring communications and 12 V power for the BUI



*See the three-phase BUI Quick Installation Guide here.

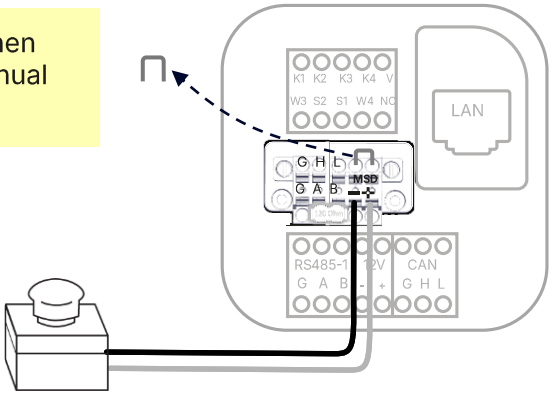
Wiring communications from the Battery to the Inverter



CAN bus “H” and “L” MUST use the same twisted pair!

Wiring a Manual Shutdown switch to the inverter for Backup operation

Remove jumper when connecting the manual shut-down switch

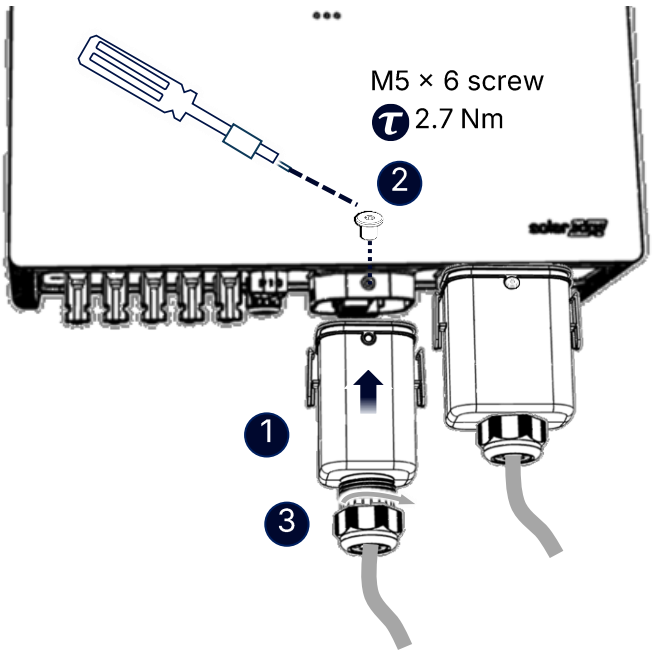


MSD switch (optional) – Use a Normally Closed (N.C) switch that latches in an open position when pressed, and when pressed again, returns to the closed position

For the MSD switch application note, scan or click:

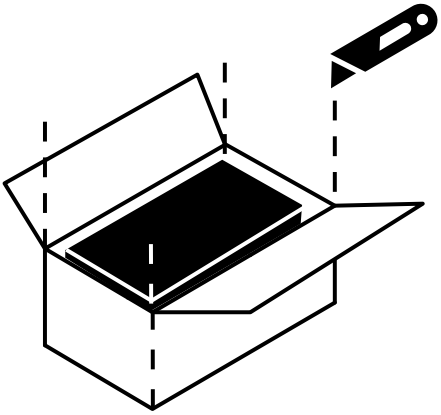
WARNING! Removing the MSD jumper without connecting a “normally closed” switch causes the inverter to stop producing.

Refit the Comms cover cup

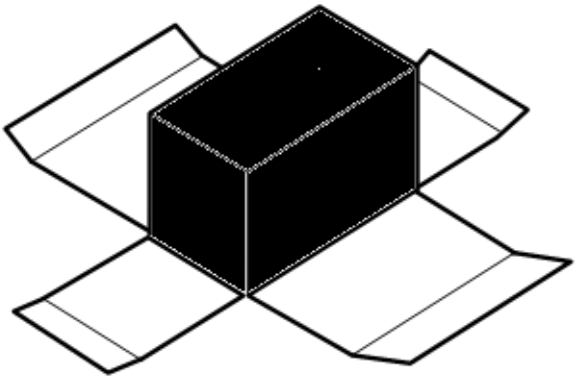


Opening the Battery Block Package

1. Cut along the dashed lines



2. Use the package as your working surface

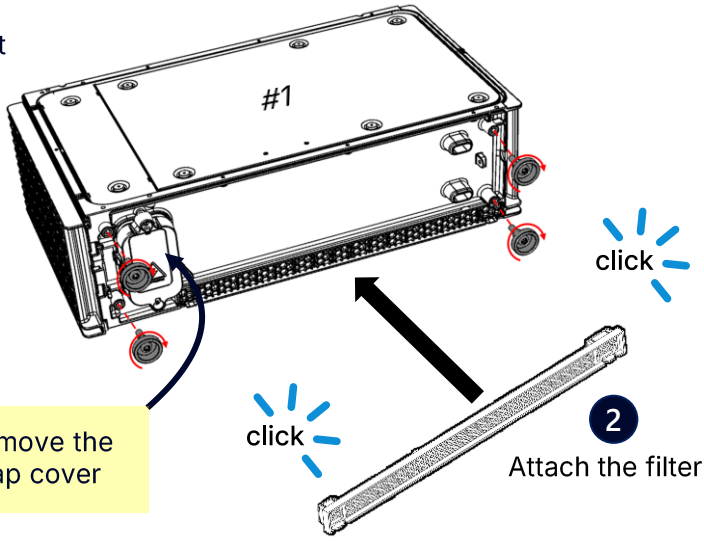


Installing the Battery

Floor mount – Battery Block #1

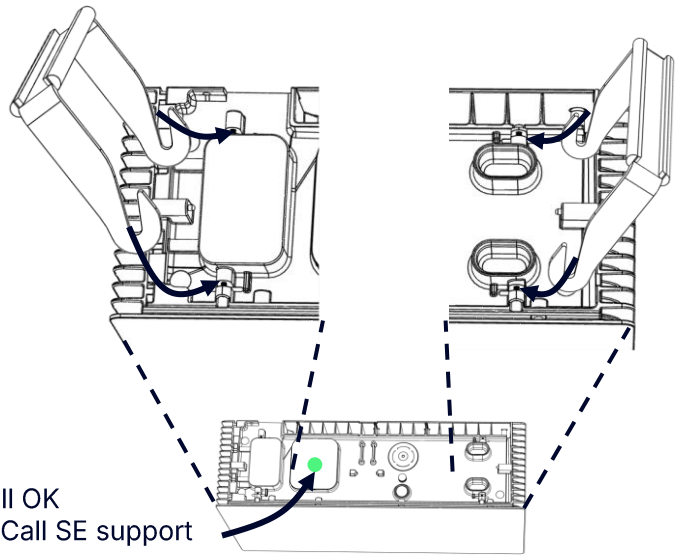
Note that steps 1 to 4 must be executed without removing the Battery Block from its packaging

1 Attach the feet



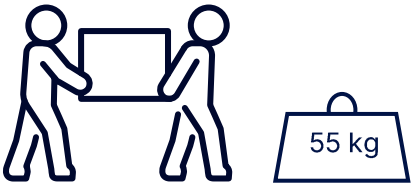
Do not remove the bottom cap cover

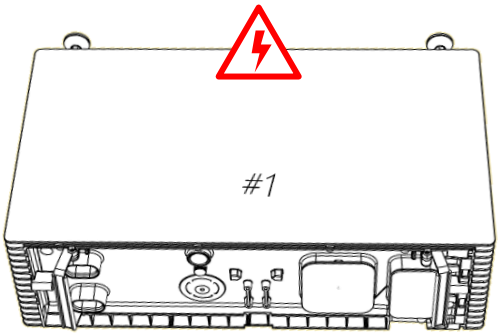
3 Attach the handles



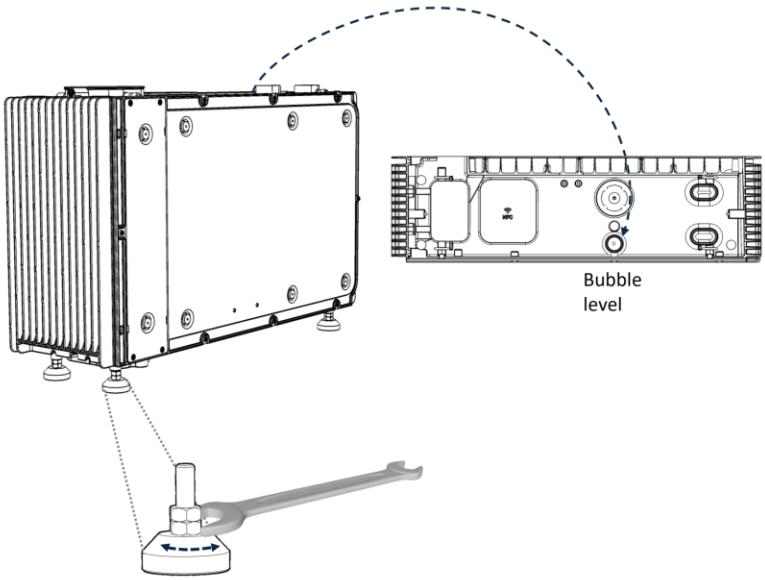
Blinking LED – all OK
No LED – error! Call SE support

4 Use 2 people to lift the Battery Block onto its feet



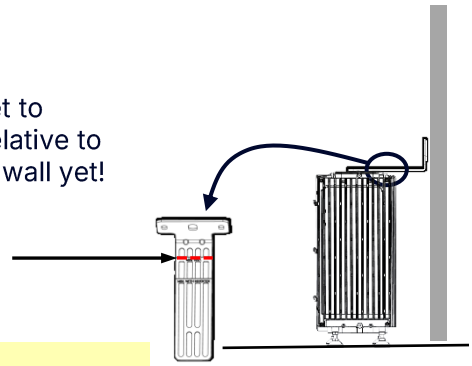


5 Level the first Battery Block by adjusting its feet - floor mount



For floor mounting, use the tilt bracket to position the battery block correctly relative to the wall. Do not fix the bracket to the wall yet!

Check the minimum distance from the wall (“MIN. DIST. Line”):

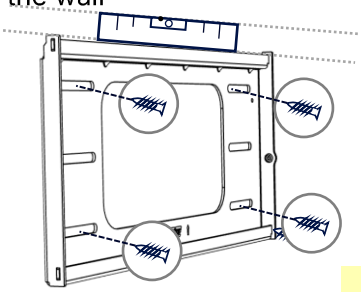


1,5 cm ≤ Distance from wall ≤ 10 cm

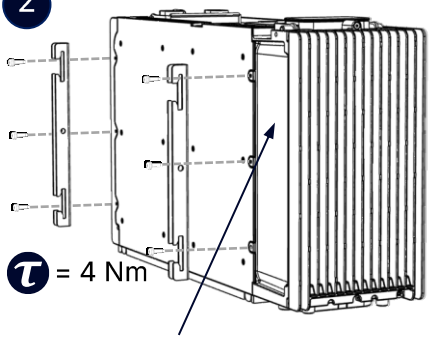
Installing the Battery

Wall mount – Battery Block #1

1 Level the wall mount bracket and attach it to the wall



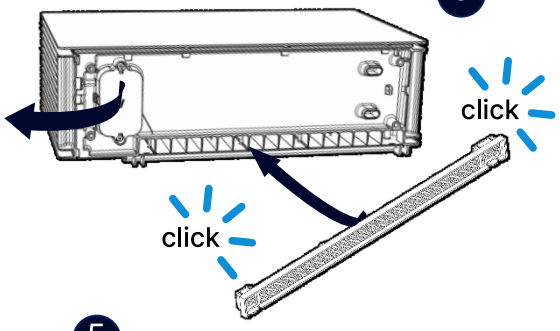
2



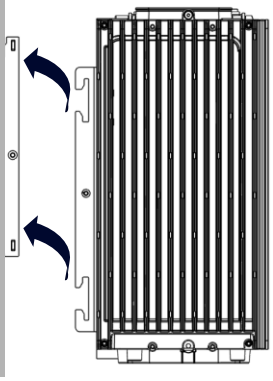
Take note of the OFFSET that these brackets cause to the position of the Battery Block when mounted on the wall.

Do not remove the bottom cap cover

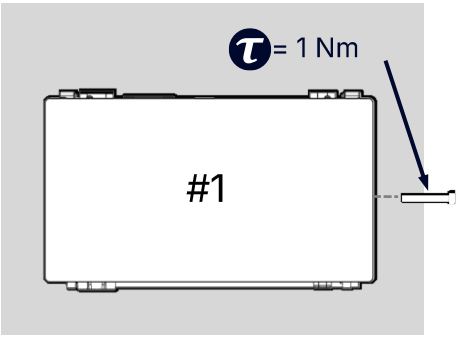
3



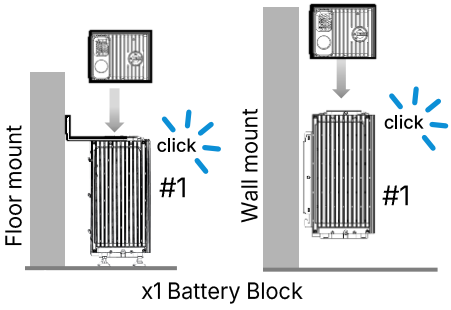
4 Hang the Battery Block on the wall bracket



5 Fix the Battery Block to the wall bracket



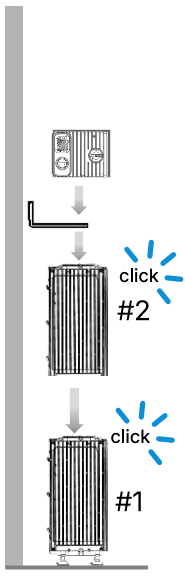
Building one battery stack – 1,2,3,or 4 Battery Blocks with Battery Link



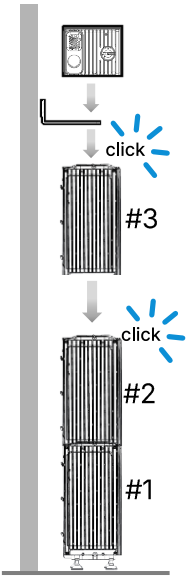
x1 Battery Block

Don't forget to remove the red bottom quick connector caps on Battery Blocks #2, 3, 4 and Battery Link

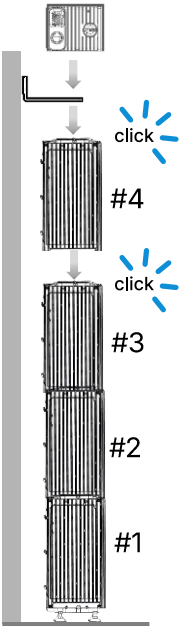
Same process for Floor or Wall mount



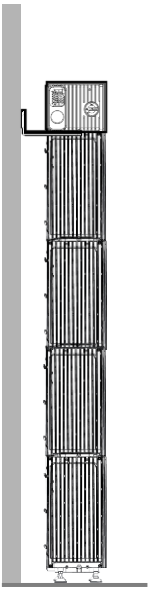
x2 Battery Blocks



x3 Battery Blocks



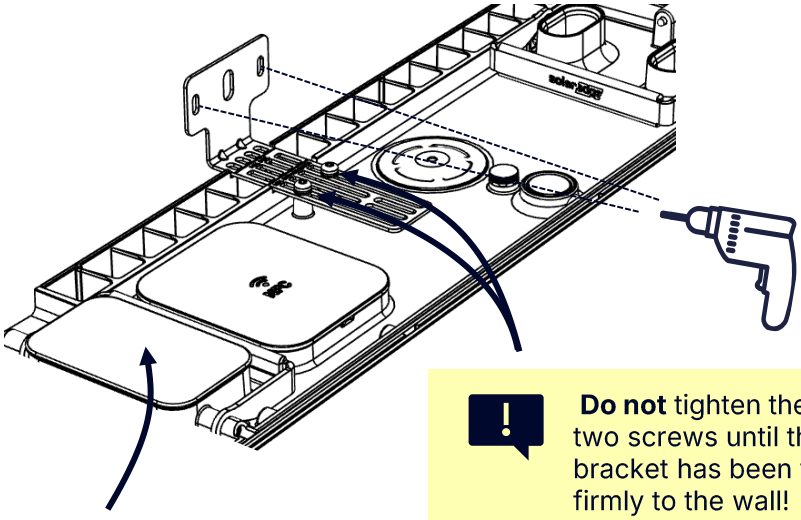
x4 Battery Blocks



Full Battery stack

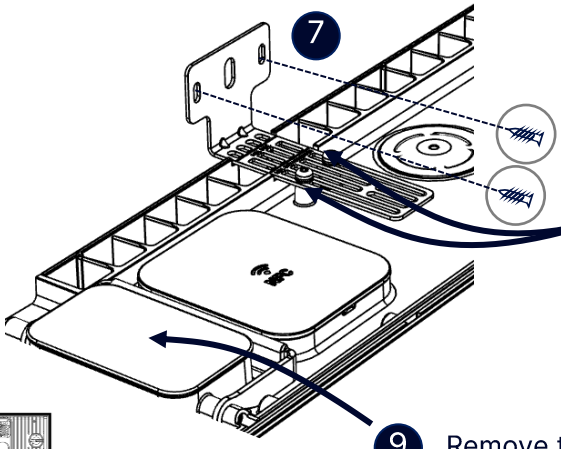
We recommend that the tilt bracket be installed either on top of the uppermost Battery Block OR on the one below the uppermost Block. It must NOT be installed on any of the lower-level Battery Blocks.

6 Position the wall bracket on top of the last or second-to-last Battery Block in the Battery Stack and mark the location of the holes for drilling into the wall.



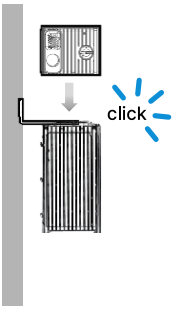
Do not tighten these two screws until the bracket has been fixed firmly to the wall!

Do not remove this cover until drilling is complete!



8 After fixing the wall bracket firmly to the wall, tighten these two screws.

9 Remove this cover!

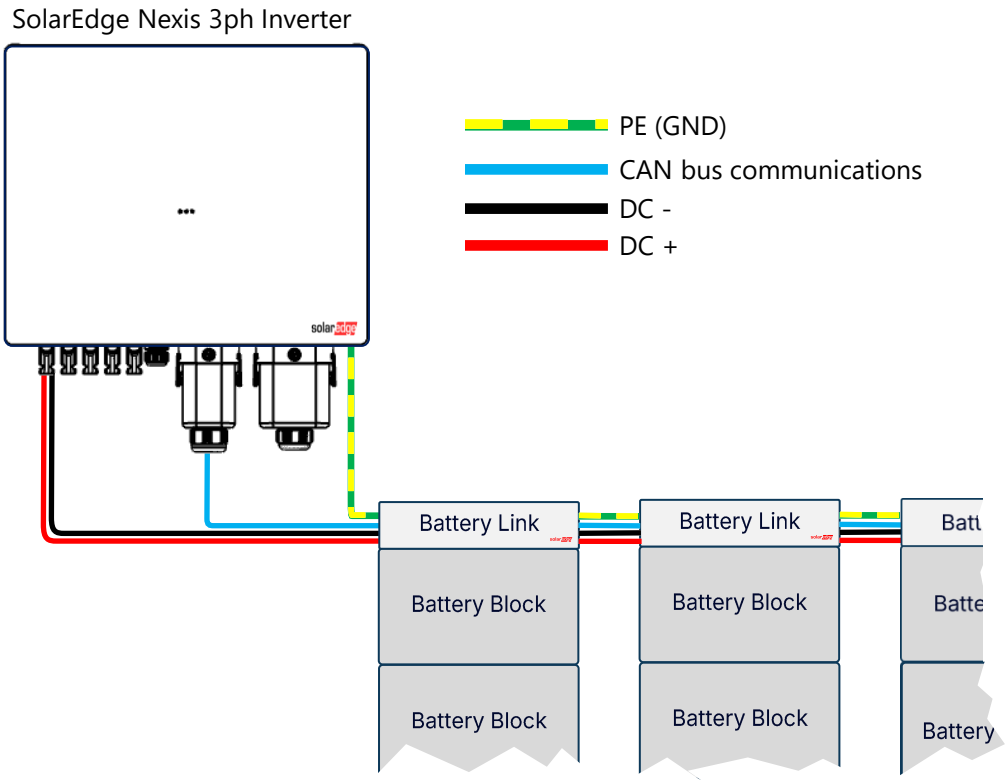


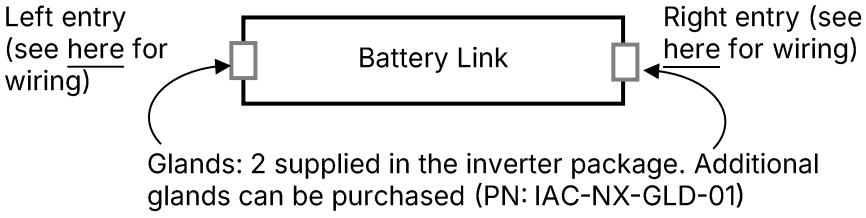
Before mounting the Battery Link, leave the two Battery Block handles (used for lifting the Battery Blocks) on top of the last block in the Battery Stack.

10 Attach the Battery Link to the top of the last Battery Block in the Stack.

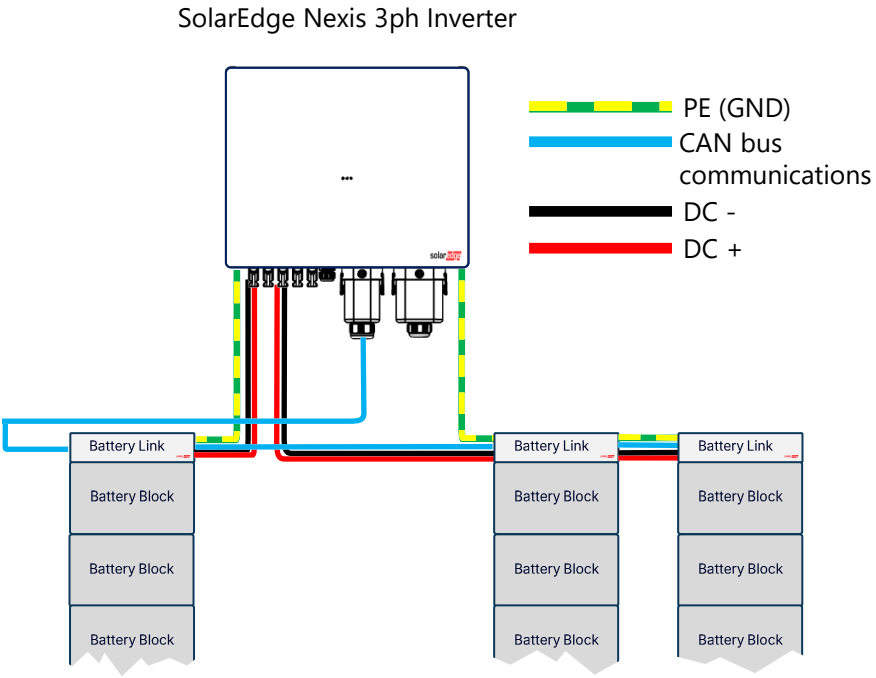
Side-by-side multi-battery configurations

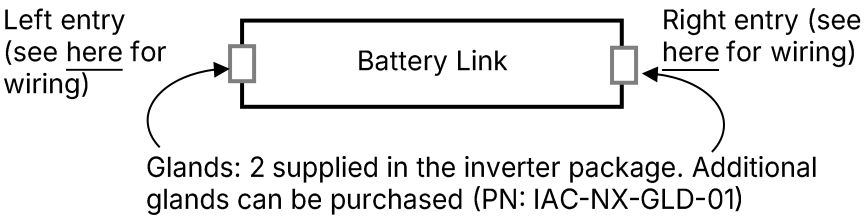
Inverter at one end of battery stacks





Inverter in-between battery stacks

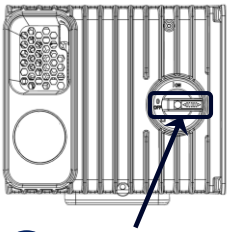




Battery Link wiring

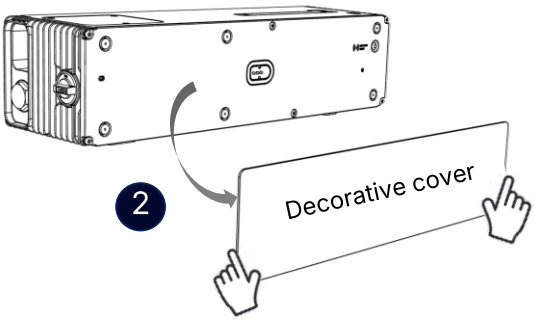
1. Turn OFF the AC circuit breaker and set the inverter P/1/0 switch to “0”.
2. Turn OFF the Battery Link.

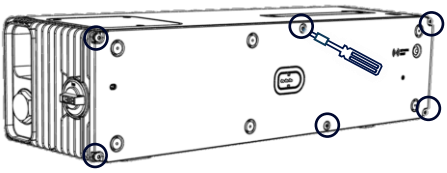
Opening the Battery Link



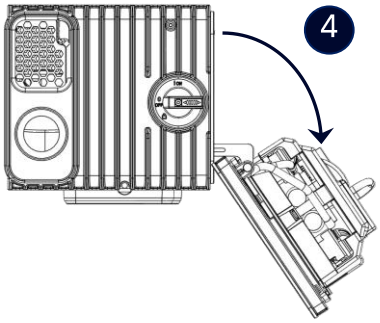
Wait 5 min before opening the Battery Link

1 OFF





3 Release captive screws x6 (T25)



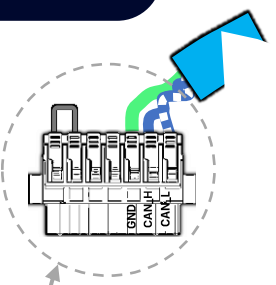
Wiring the Battery Link – left entry

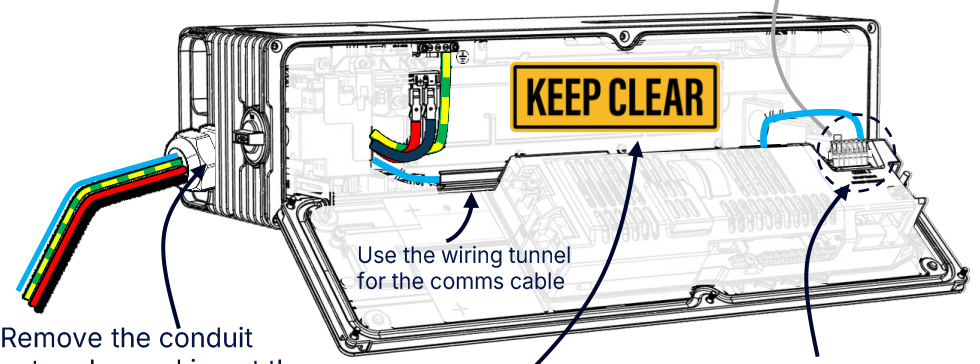
DC and GND wire stripping lengths:

19 mm

12 mm

Ferrules are NOT mandatory.



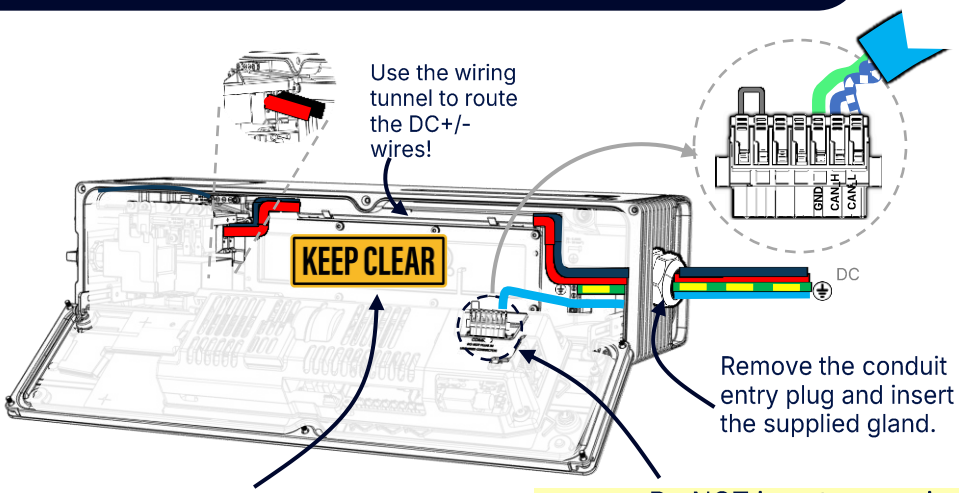


Remove the conduit entry plug and insert the supplied gland.

KEEP THIS AREA CLEAR OF ALL WIRES SO THAT THE LINK CAN BE CLOSED CORRECTLY!

Do NOT insert an unwired plug into the comms connector!

Wiring the Battery Link – right entry



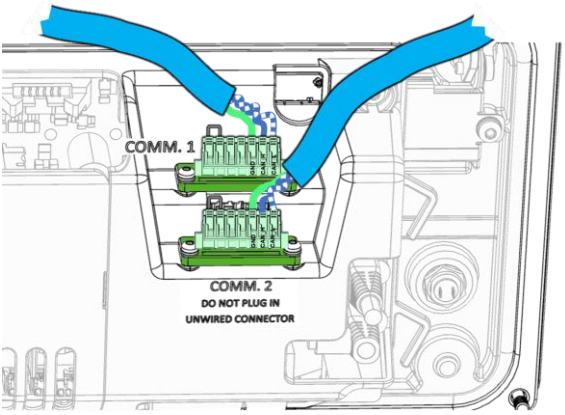
Remove the conduit entry plug and insert the supplied gland.

KEEP THIS AREA CLEAR OF ALL WIRES SO THAT THE LINK CAN BE CLOSED CORRECTLY!

Do NOT insert an unwired plug into the comms connector!

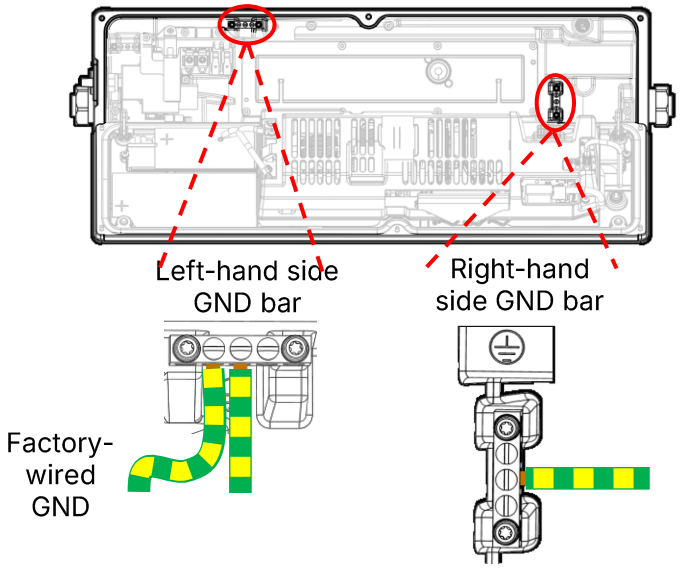
Wiring Battery Link comms for multi-stack configurations

For comms cables coming into the battery link from both sides of the link:-



- Each Battery Link package includes x2 communications connectors.
- Connect the CAN-bus wires coming into the link from the right side to one connector, and the CAN-bus wires coming into the link from the left side to the other connector.
- Plug these two connectors into the COMM.1 and COMM.2 ports as shown (either connector can go into either port).

Battery Link Ground (GND) bars

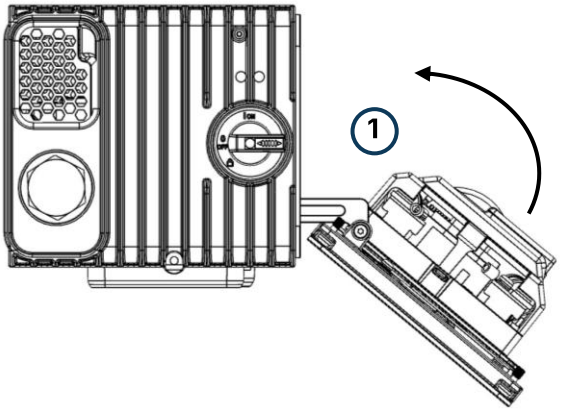


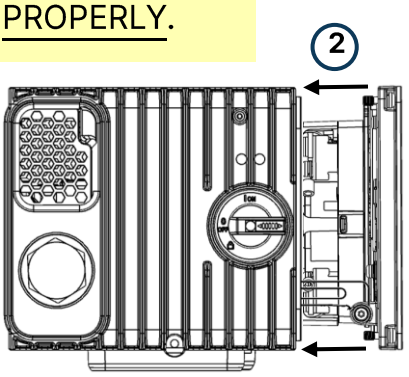
For all GND wire gauges, the tightening torque for the GND bar screws is 4 Nm.

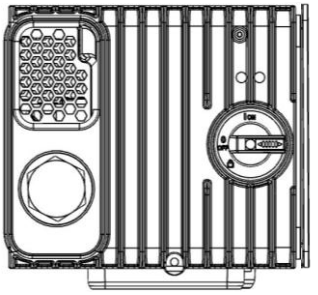
Closing the Battery Link

VERY IMPORTANT!

THE BATTERY LINK MUST BE CLOSED PROPERLY.

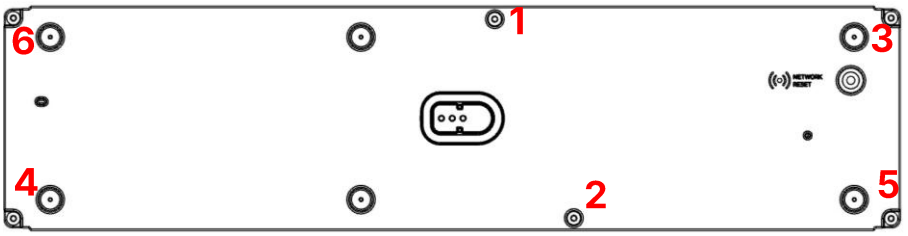






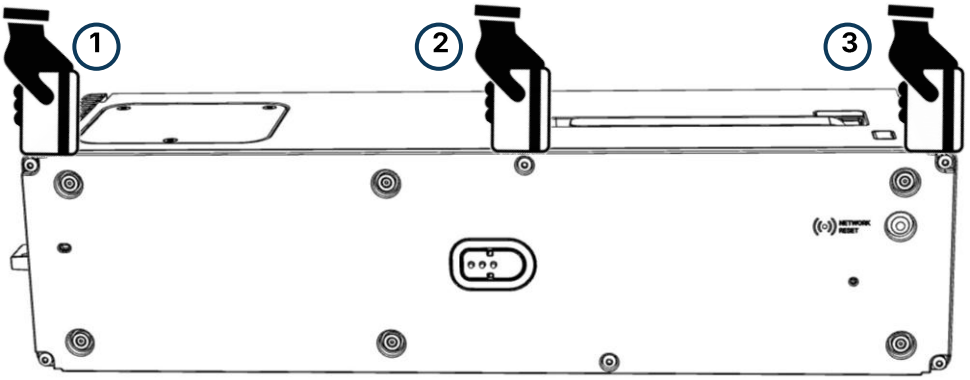
- Make sure that there are no loose wires or cables behind the door.
- Do NOT force the door closed.

4 ORDER OF SCREW TIGHTENING - Torque = 3.5 Nm (31 lb-in):

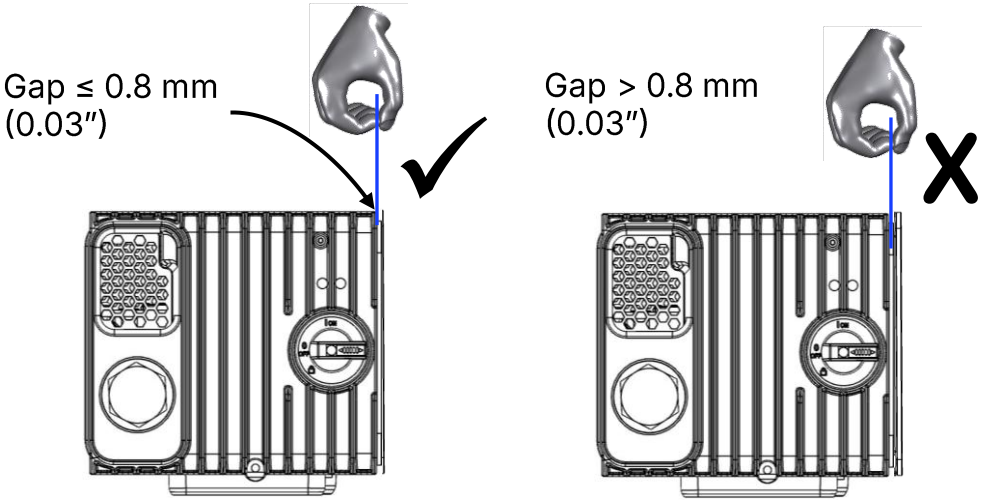


5 VERIFY the gap between the door and the link body.

- Use a credit card to test that the link is closed properly.

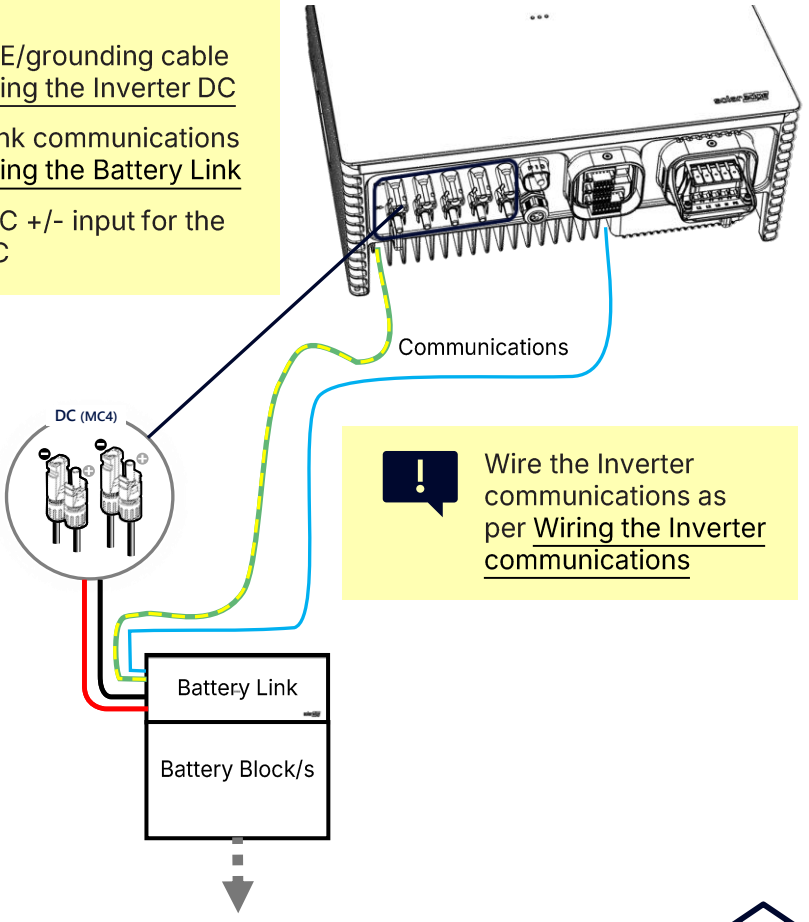


Closing the Battery Link



Wiring DC and communications from the Battery to the Inverter

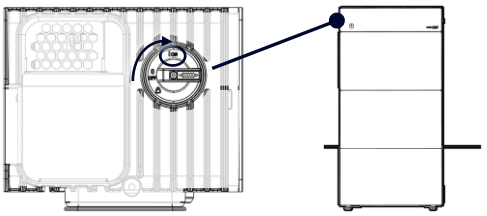
- Connect PE/grounding cable as per Wiring the Inverter DC
- Wire the link communications as per Wiring the Battery Link
- Use any DC +/- input for the Battery DC



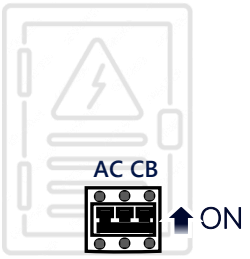
Wire the Inverter communications as per Wiring the Inverter communications

Power on the system

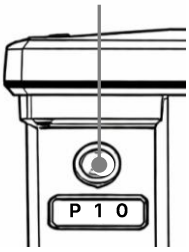
1 Battery Link



2 Electrical cabinet

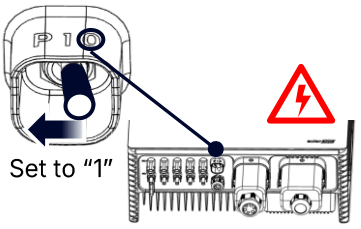


3 BUI



Set to “1”

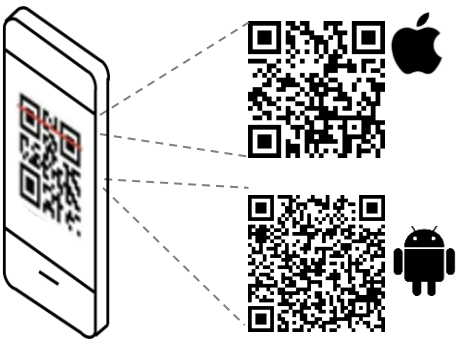
4 Inverter



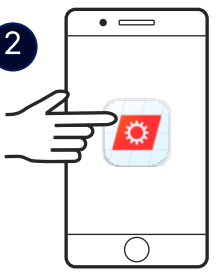
Set to “1”

Commissioning the inverter

1 Scan for SolarEdge GO

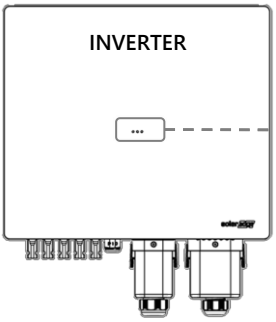


2



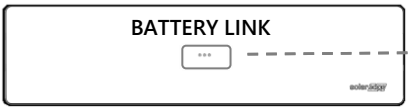
Run SolarEdge Go and follow the instructions on the screen

Led indicators



- Blue: communication ok
- Steady Green: Power production
- Blinking Green: Grid connection ok
- Red: Fault

For more details, see SolarEdge LEDs.



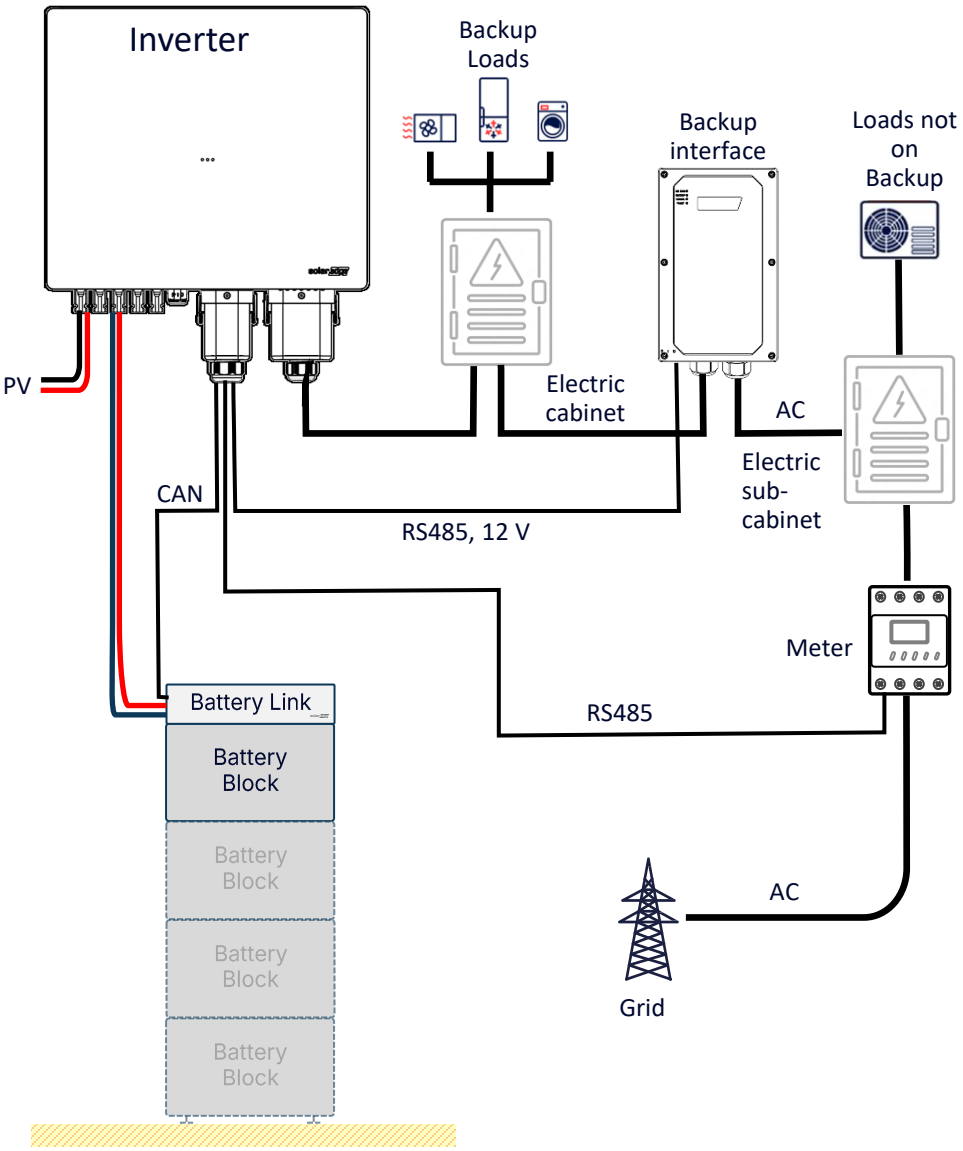
- Blue: communication ok
- Steady Green: Charging / discharging
- Blinking Green: Standby
- Red: Fault

Backup interface and meter

For the complete description of the BUI LED and Meter indicators, refer to the BUI QIG.

Appendix 1

Partial Home Backup

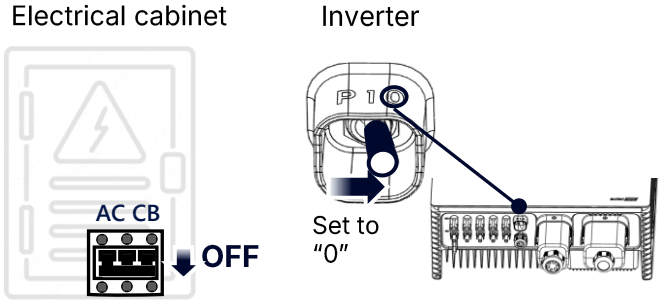


TERMINATION SETTINGS
For this configuration, make sure to set the termination as follows:
INVERTER – OFF. Either set the DIP switch on the communications board inside the inverter, OR, remove the external termination plug at the COMMS terminals at the bottom of the inverter.
METER – ON.
BUI – termination is always **ON** and cannot be changed.

Appendix 2

Inverter termination

1. Power OFF



After Power OFF, wait at least 5 minutes before opening the inverter.

2. Remove the inverter decorative cover.

3. Open the inverter – ensure order of opening captive screws

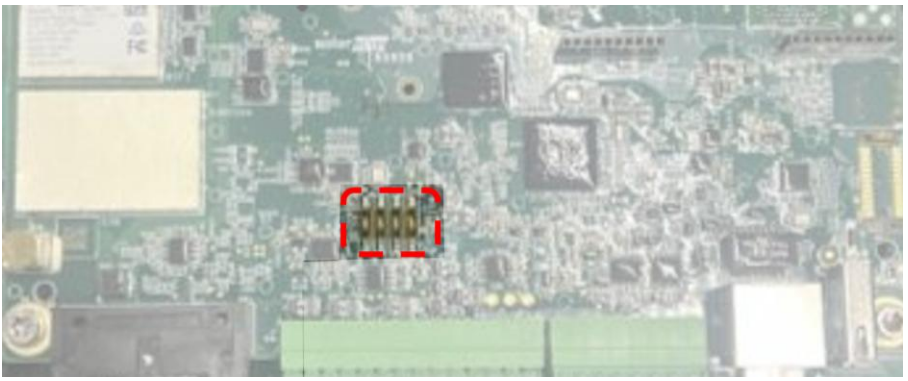


To set the inverter's termination

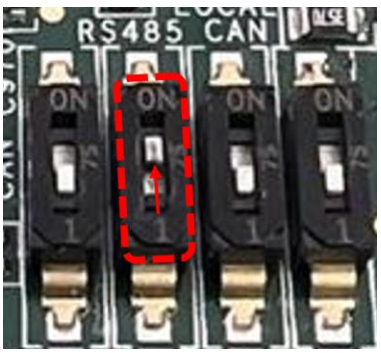
1. Identify the communications board.



2. Identify the DIP switches.



3. Set the RS485 DIP switch "ON".



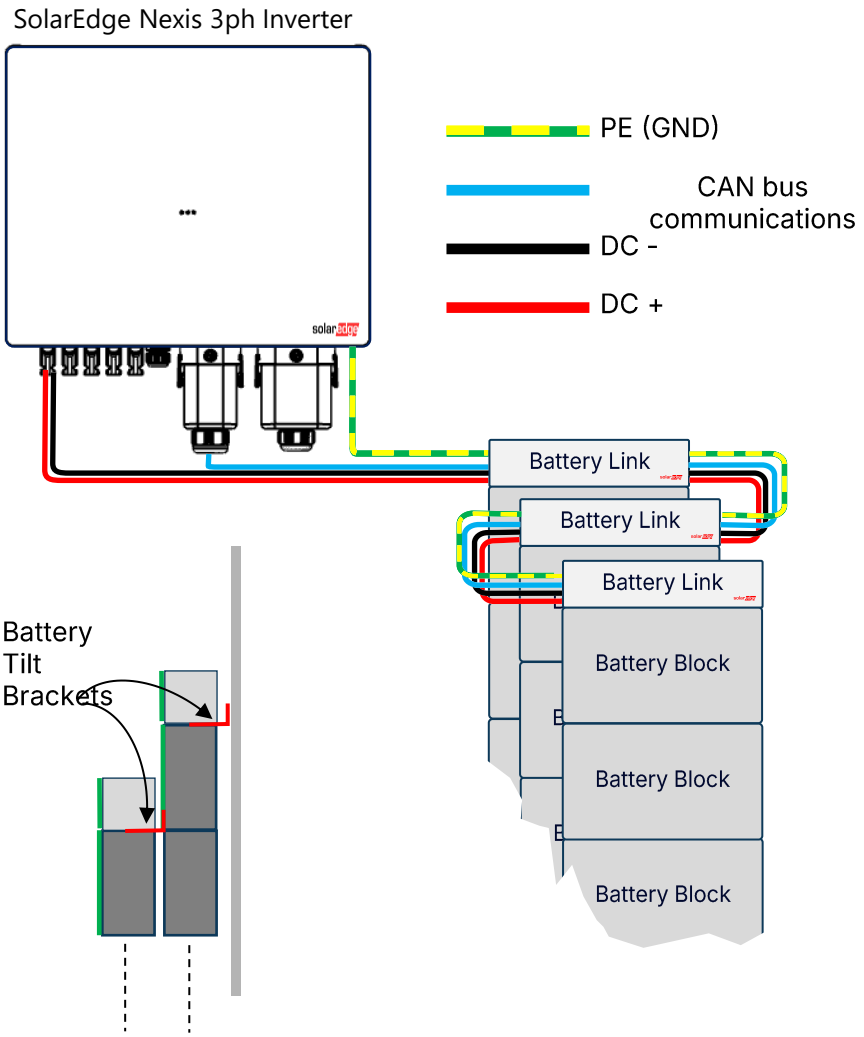
4. Refit the inverter cover. Follow the order for tightening the screws.



5. Refit the inverter decorative cover.

Appendix 3

Front-to-back multi-battery configuration

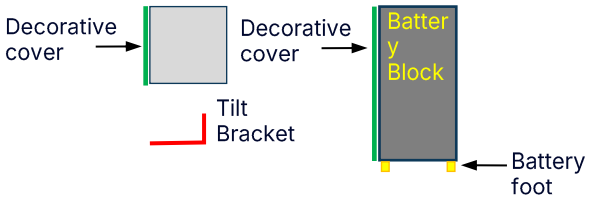


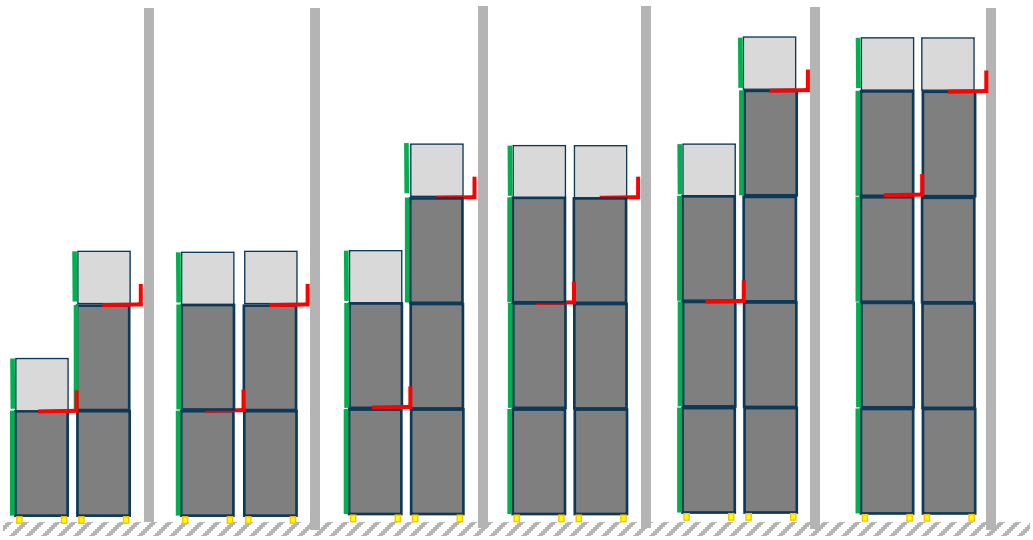
Front-to-back configuration is ready out-of-the-box. No additional items required. **ONLY** floor mounting is supported!

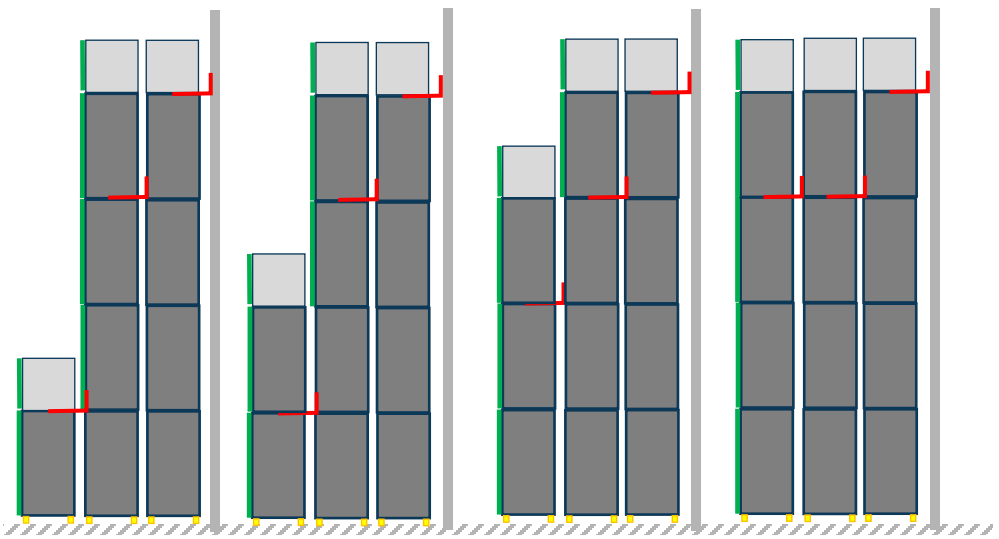
- Use the Battery Tilt Bracket (one per stack) to connect stacks together.
- Height of each stack must be ≤ height of the stack behind it.
- The stack closest to the wall must comprise at least 2 Battery Blocks.
- No decorative covers needed for blocks that are behind other blocks.
- Always fasten the rear-most stack to the wall using the Tilt Bracket

Front-to-back configuration

Supported stacking options:

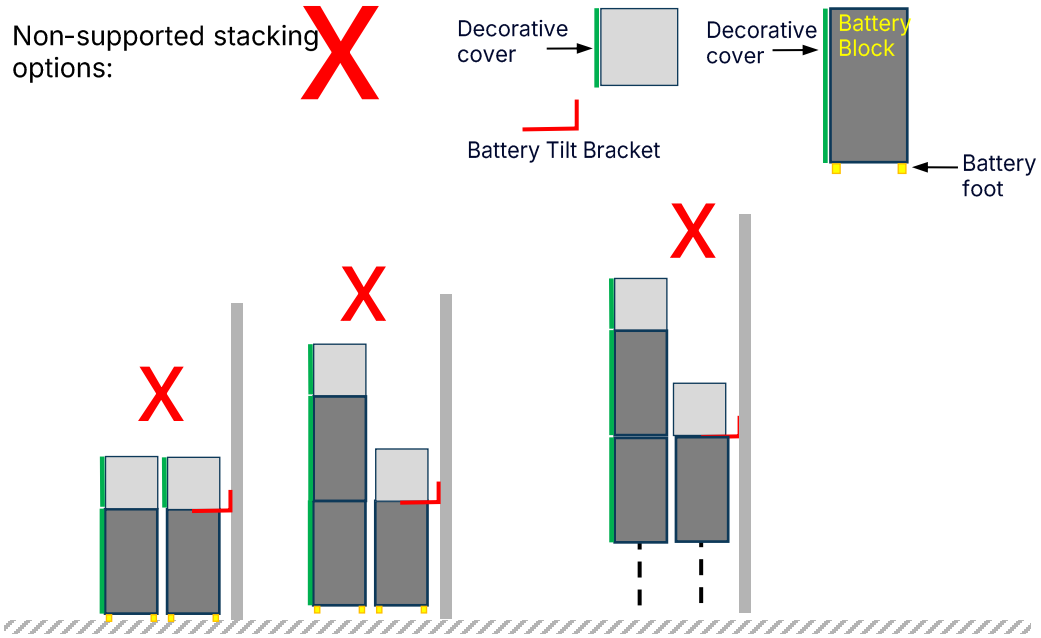




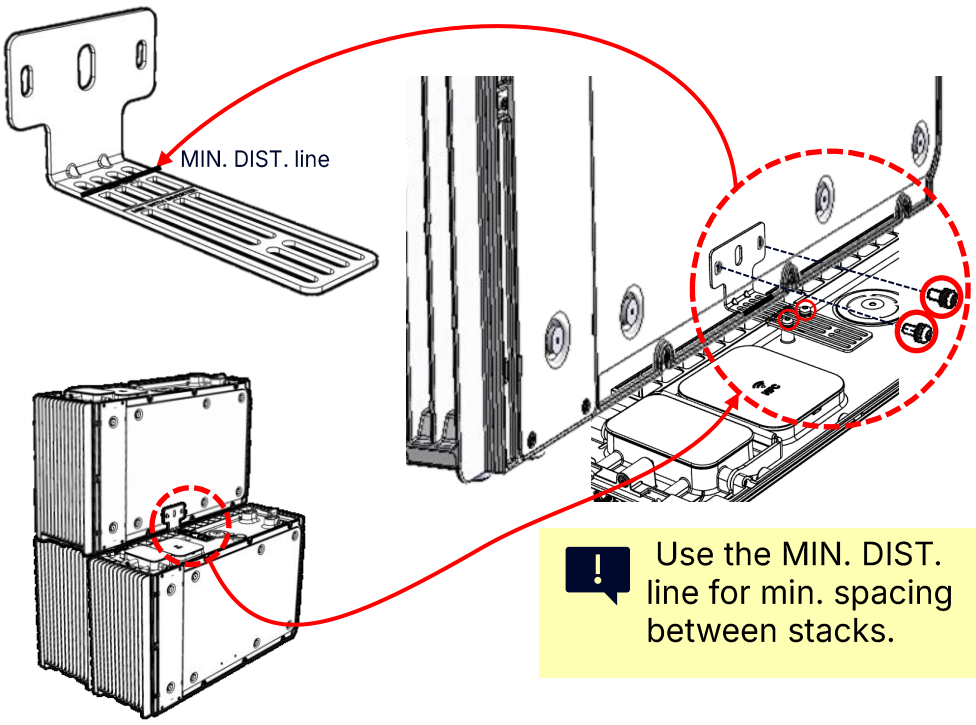


Front-to-back configuration

Non-supported stacking options:

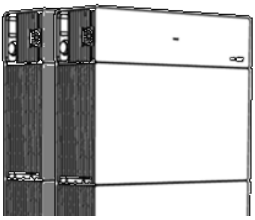


Connecting Battery Stacks together



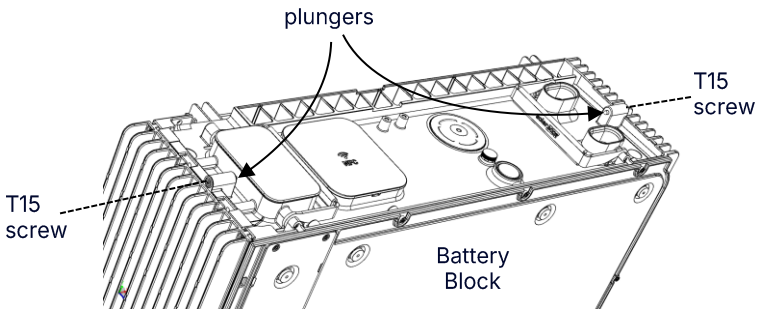
Use the MIN. DIST. line for min. spacing between stacks.

Wiring the Battery Links – front-to-back (stacks same height)



1. Build up the complete rear stack and attach it to the wall using the Tilt Bracket.
2. Open the rear Battery Link. See Opening the Battery Link.
3. Measure the wires to be routed to the inverter from the rear stack.
4. Measure the wires to be routed to the link in the next stack**. Make sure to leave sufficient extra length.** The wires can be cut to size later.
5. Connect the left side wiring. See page 34.
6. Connect the right side wiring. See page 34.
7. Close the rear Battery Link.
8. Do **NOT** attach any decorative covers to this stack.
9. Build up the next stack up to the block that will have the Tilt Bracket attached. See page 45.
10. Attach a Tilt Bracket to connect the second stack to the rear stack. See page 46.
11. Add the top block to the second Battery Stack.
12. Add the link to the second Battery Stack.
13. Open the Battery Link in the second stack.
14. Cut and connect the wires from the rear stack inside the link of the second stack.
15. Close the second link.
16. If there are to be only 2 stacks, attach all the decorative covers to the front (second) stack.
17. Repeat the above steps if there is to be a third Battery Stack at the same height.

Appendix 4:
Disassemble a Battery Stack



a. Battery Link installed

1. Use a long-shank torx tool with a T15 bit to release the two screws at the top on either side of the upper-most Battery Block.
2. Lift the Battery Link off from the stack.
3. Turn the two screws back all the way into position.
4. Continue as for **b.** below.

b. No Battery Link installed

1. Use a long-shank torx tool with a T15 bit to release the two screws at the top on either side of the second-to-last Battery Block in the stack.
2. Use the supplied handles and two people to lift the upper-most block up off the stack.
3. Turn the two screws back all the way into position.
4. If necessary, remove the Tilt Bracket and Tilt Bracket extension.
5. Repeat this procedure until you reach the block to be replaced.
6. Before adding a new block at this position, make sure that its green LED is blinking to indicate that it is functional.
7. Insert and ”click” the replacement Battery Block in place.
8. Continue building the stack using the remaining blocks and the link as before.
9. Make sure to replace the Tilt Bracket and Tile Bracket extension at their original position in the stack.
10. Continue with the system installation procedure from where you left off.