

Quick Installation Guide

SolarEdge Nexis 3ph

For Australia, only Inverters NX-10K / NX-15K / NX-20K are available.

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-01-001400-1.2



For the SolarEdge Nexis
Information center, [click here](#)

SolarEdge.com

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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!

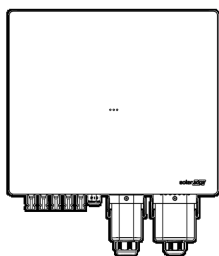
2 RS485 termination

Refer to [Wiring the inverter communications](#) for important NEW details!

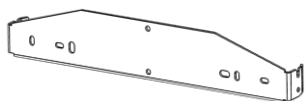


What's in Each Box

Box 1- Inverter 3ph



SolarEdge Nexus
Inverter 3ph



Inverter wall
bracket



Power rating
labels x6



M5 x 16 torx
screws (GND and
bracket)

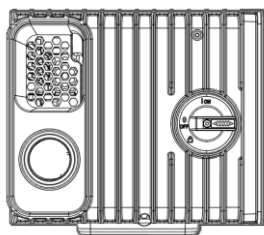


M5 x 6
(spare cup
torx screws)



What's in Each Box

Box 2- Battery Link



Battery Link

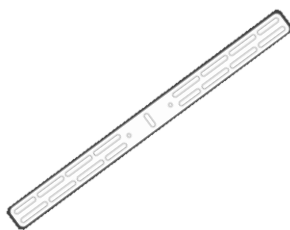


x4

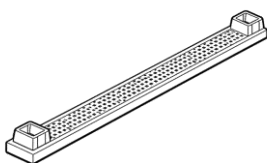
Battery Block foot



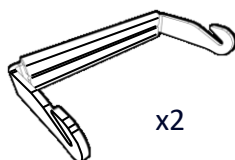
Battery Tilt bracket



Battery Tilt bracket extension (dry wall installations)

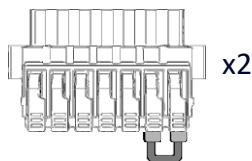


Battery Block filter



x2

Battery Block handle



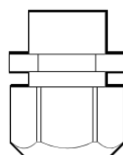
x2

Communications connector



x4

Screws M5X12
(Battery Tilt bracket and Tilt bracket extension)



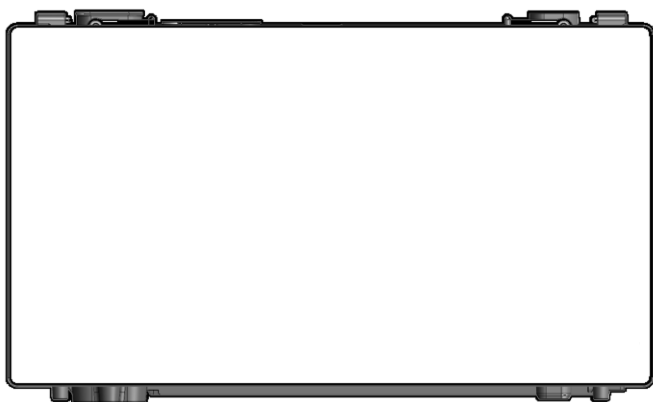
x1

Cable gland
(for Battery Link wiring)



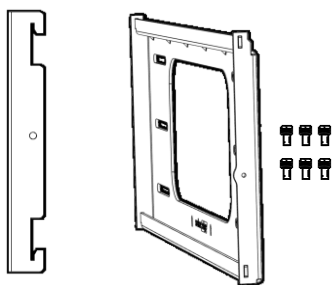
What's in Each Box

Box 3 - Battery Block



SolarEdge Nexus
Battery Block

Sold separately!



SolarEdge Nexus Wall Mount
Bracket and screws



IMPORTANT NOTE

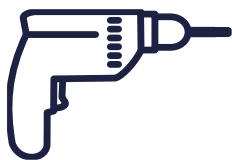
Only one wall mount bracket is needed per battery stack.

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



Tools Needed:

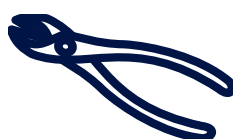
What You Need for the Installation



Drill



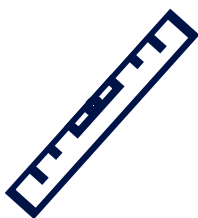
Pencil



Wire cutter



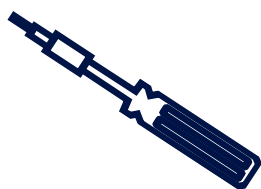
Wire Stripper



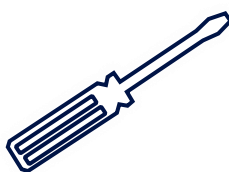
Level



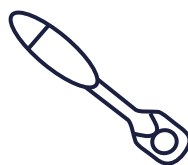
Hammer



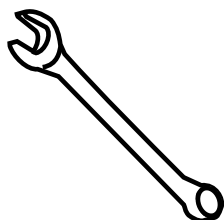
Adjustable Torque Torx
Screwdriver set



Watchmaker flat
screwdriver



Torque wrench



13 mm wrench
(battery feet)



CAT7 cable



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!

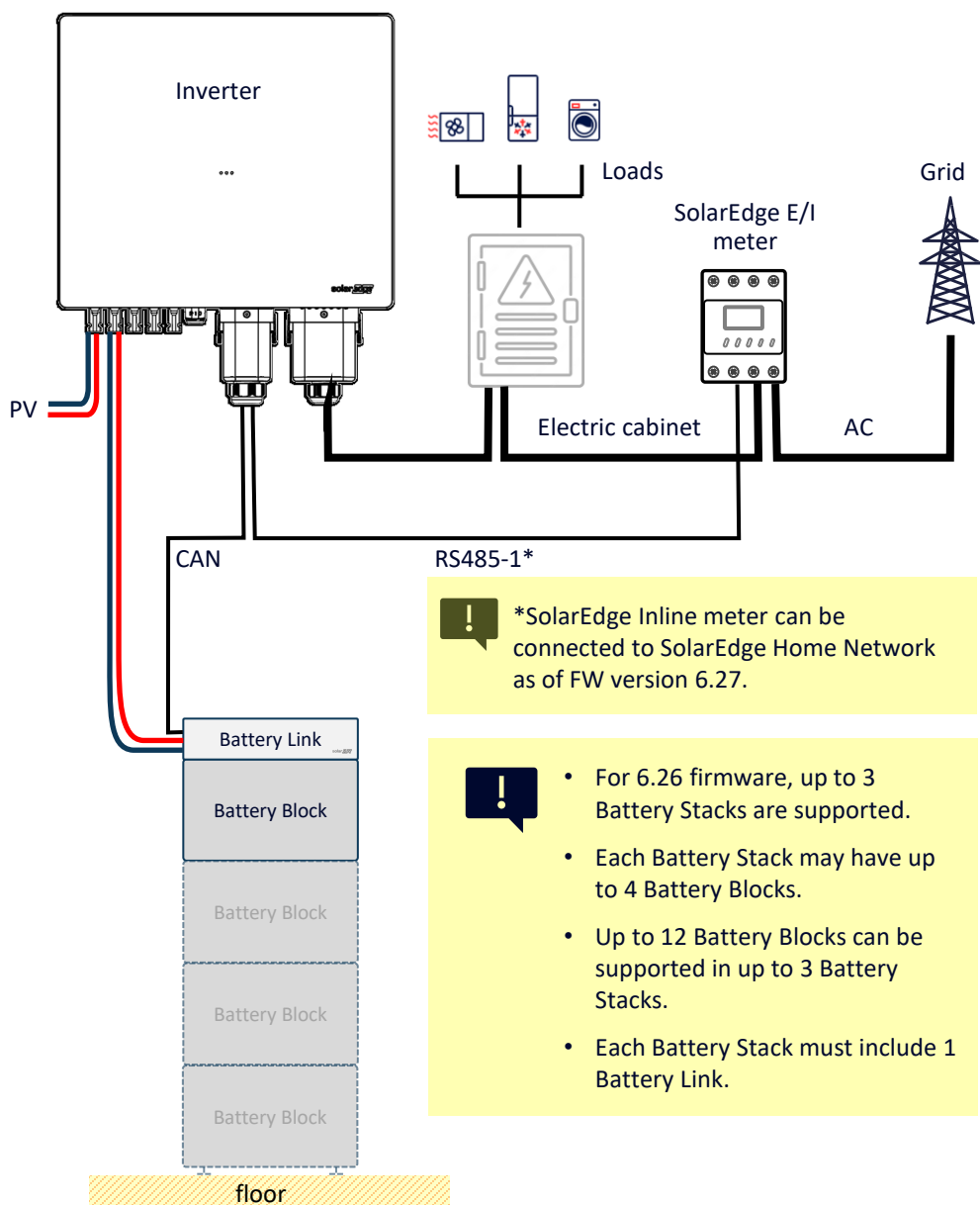
The information in this guide is subject to change without notice.



Before you start

System Overview

PV + Storage



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.

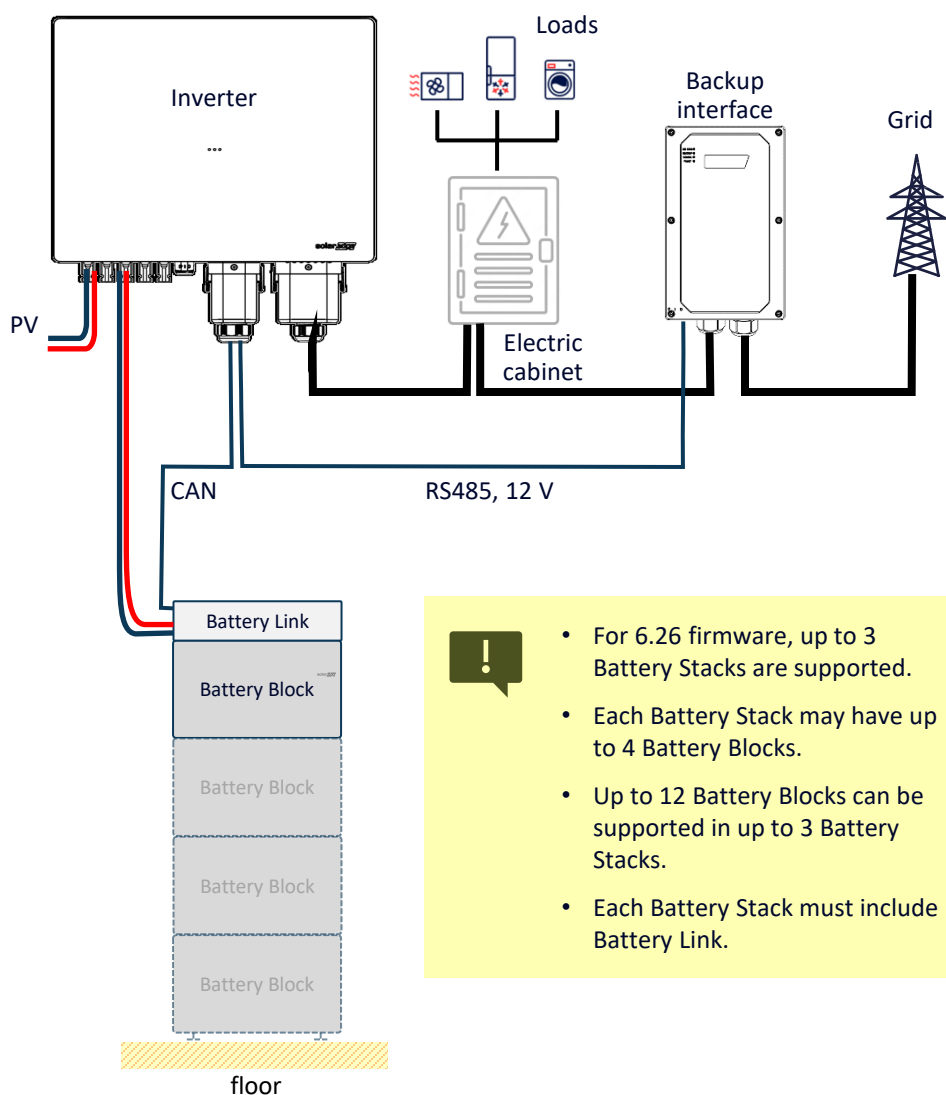


Before you start

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](#).

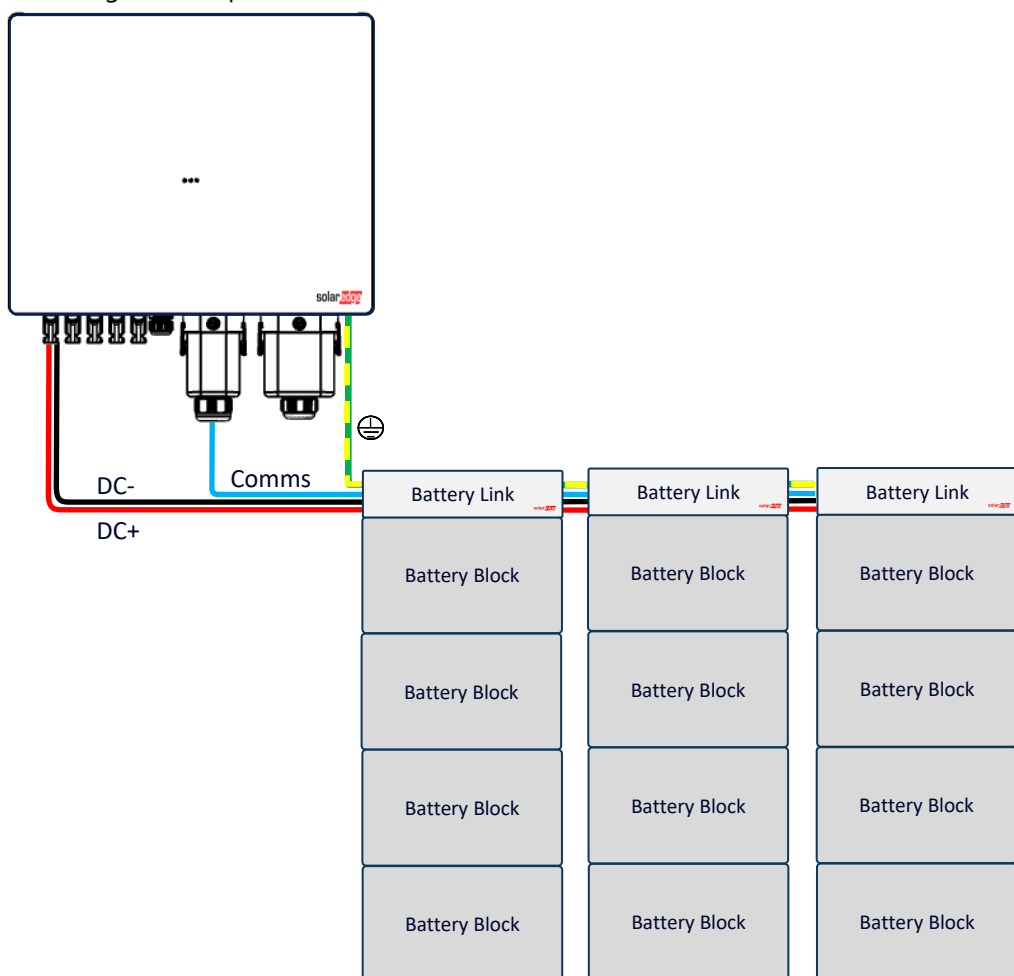


Before you start

Multi-battery configurations

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

SolarEdge Nexis 3ph Inverter



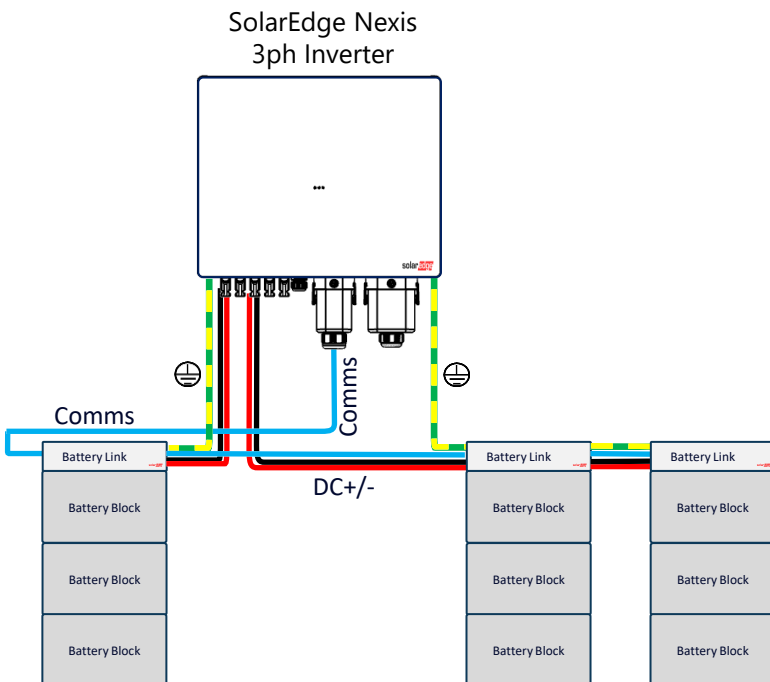
Before you start

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.



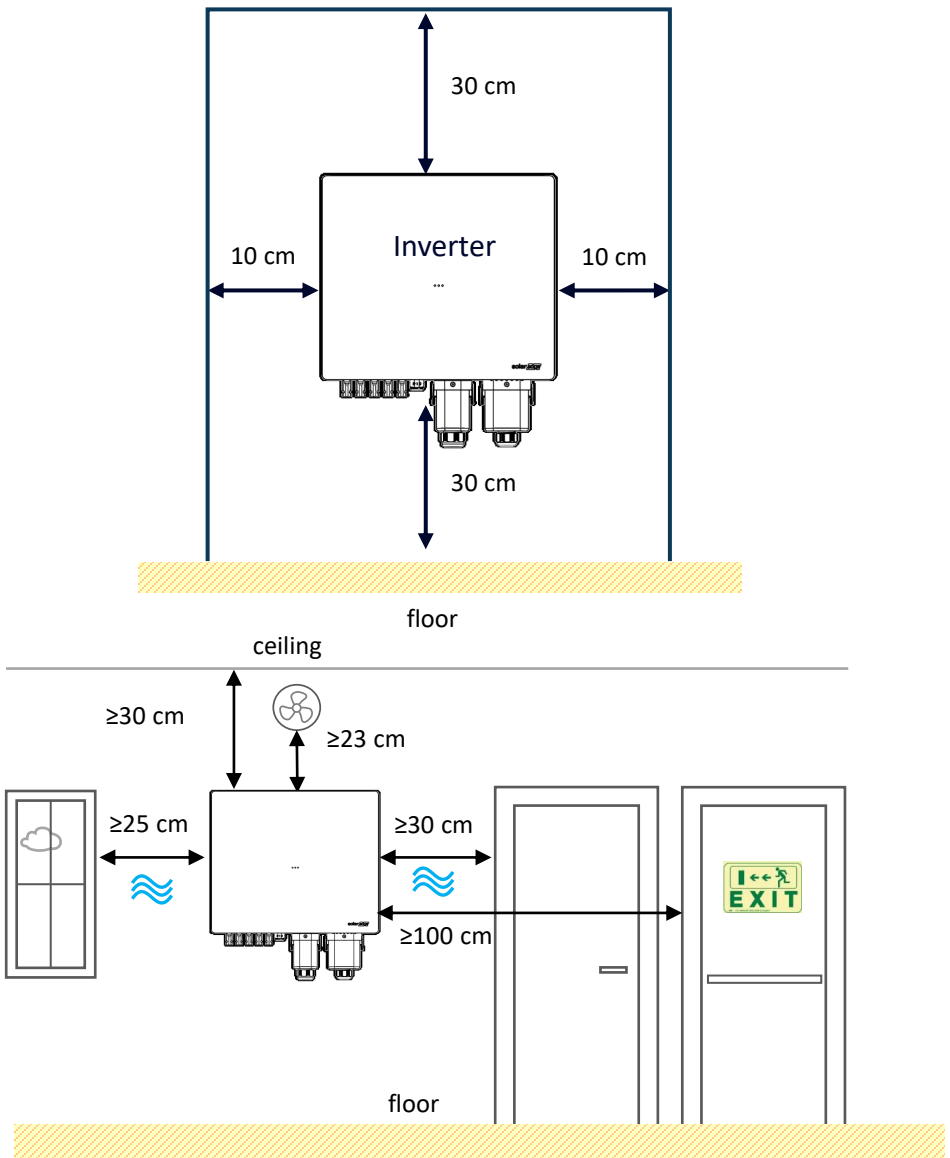
| Let's get started!

A. Planning

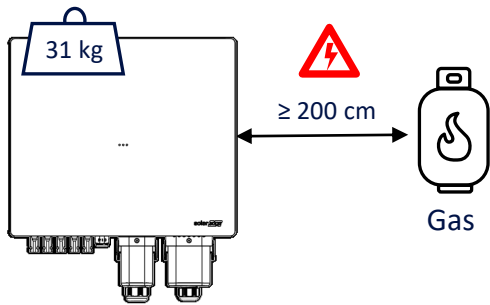
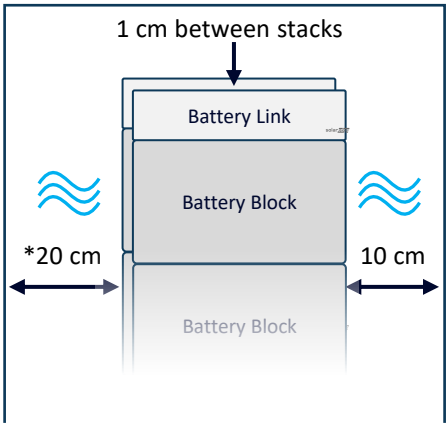
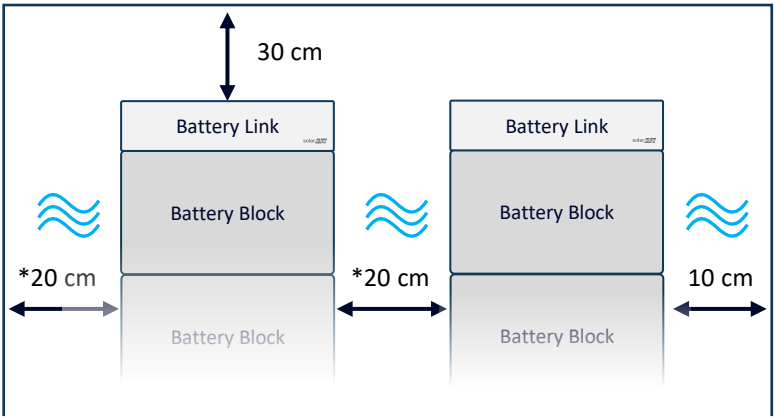
Indoor



Outdoor



A. Planning



Inverter-to-battery maximum distance		
Cable cross-section (mm²)	Up to 4 Blocks	More than 4 Blocks
6	50 m	30 m
8		40 m

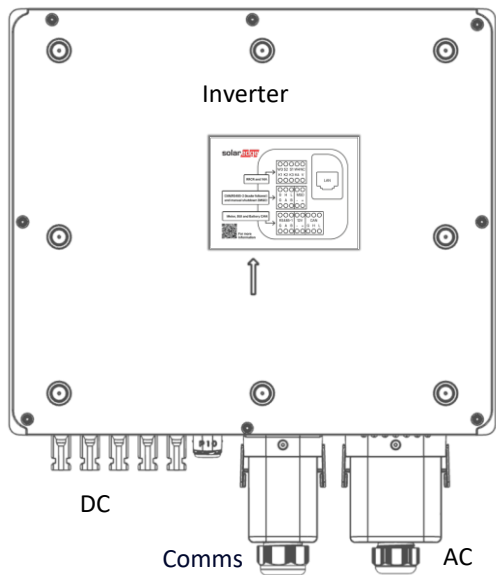


BATTERY PLANNING:

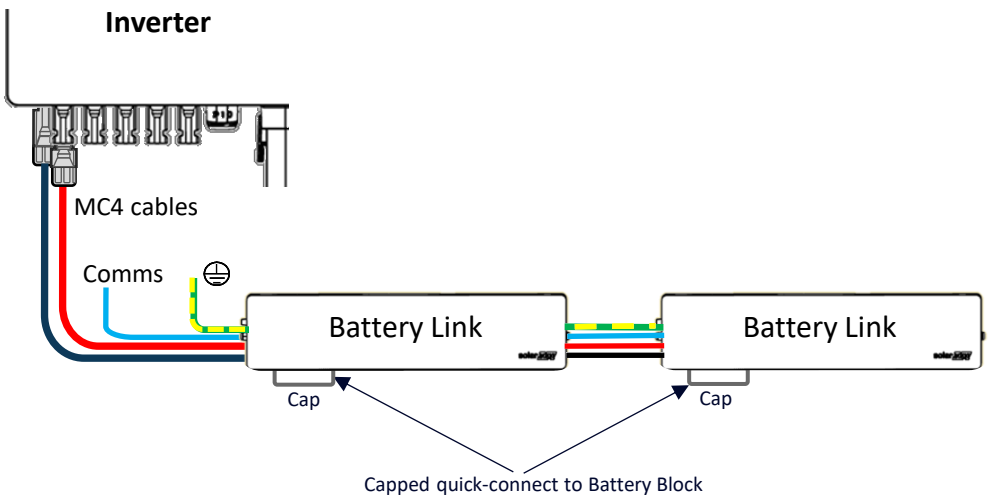
- *10 cm is allowed, but 20 cm is recommended for servicing the Battery Block/s.
- Minimum distance to window or door is 30 cm
- For all cable length options, refer to the [Configuration Guide](#).



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 mm² 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



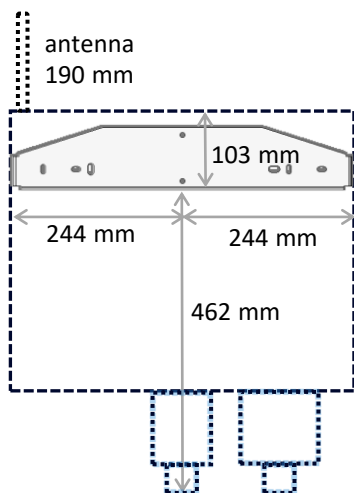
Reminder - Auto software updates

*Only applicable for wired ethernet systems!

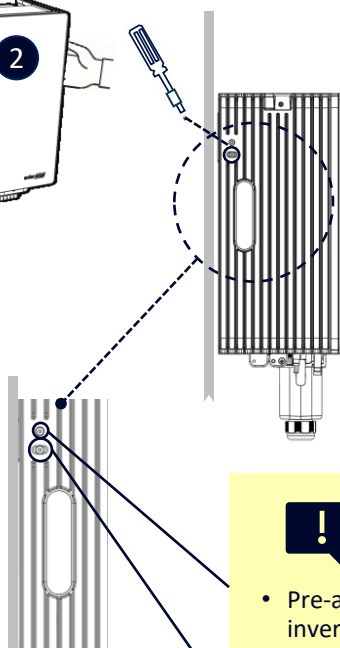
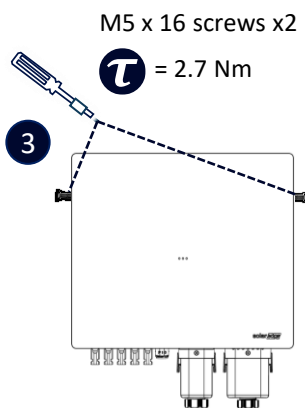
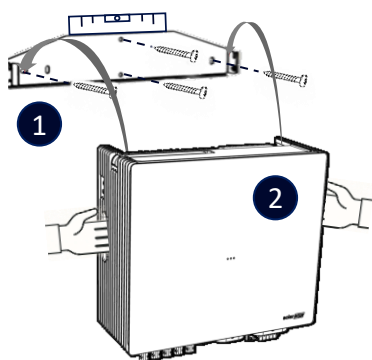
To save valuable commissioning time, we recommend that you first connect the inverter to the battery, internet, and the AC, and then turn the system ON for background software updates. You can then proceed with other installation activities while the software is updating.



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.



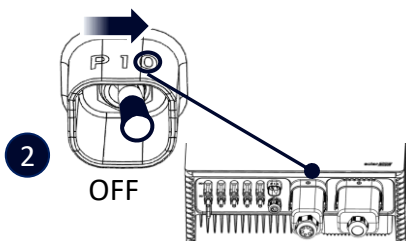
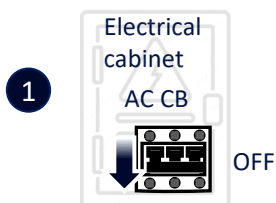
- Pre-assembled pins to hang the inverter on the bracket. Do NOT unscrew!
- Screws x2 used as to secure the inverter to the bracket



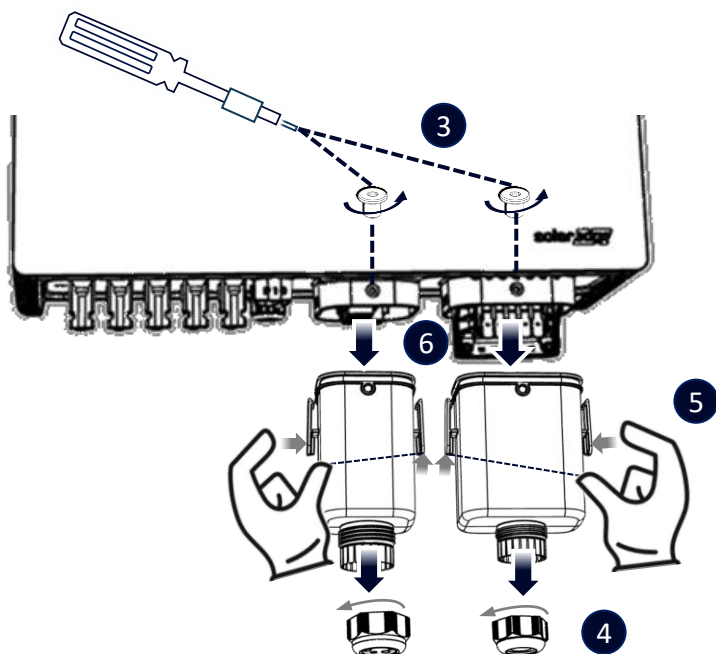
Wiring the inverter



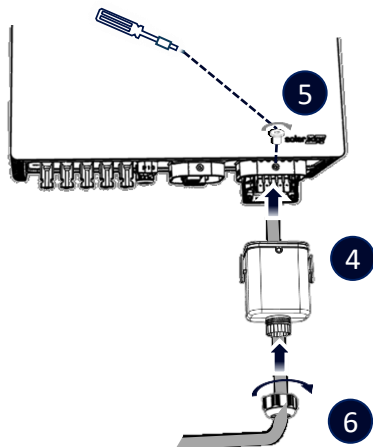
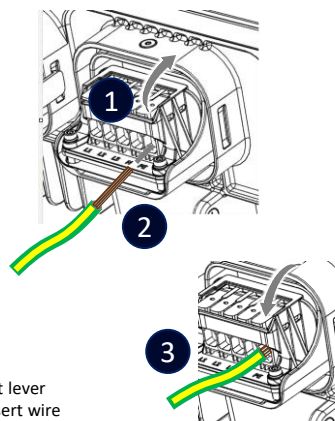
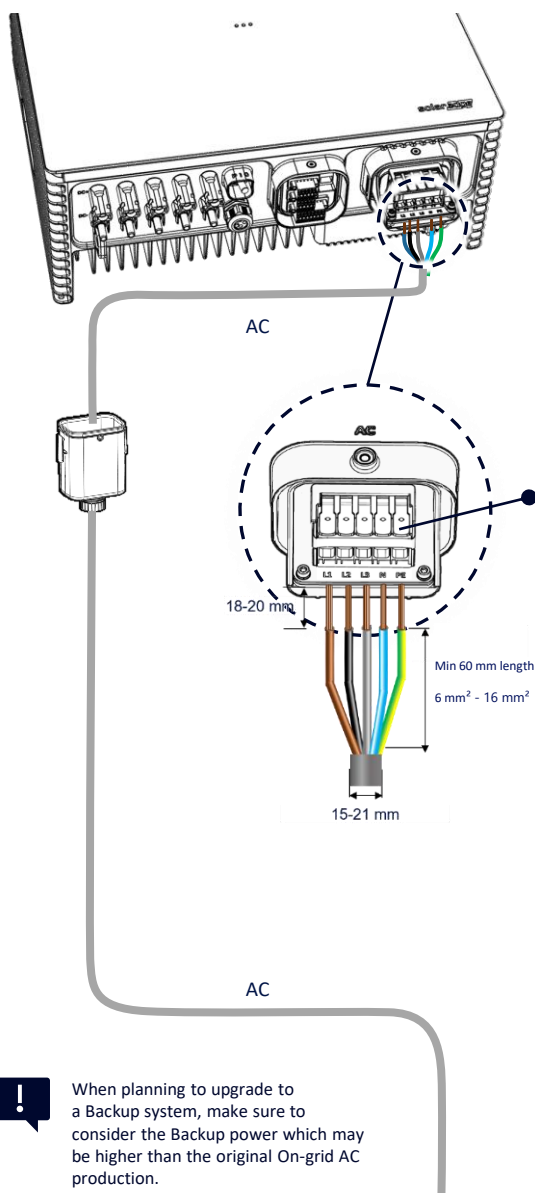
Before wiring:



Wait at least 5 minutes before moving to Step 3.



| Wiring the inverter AC



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.



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

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



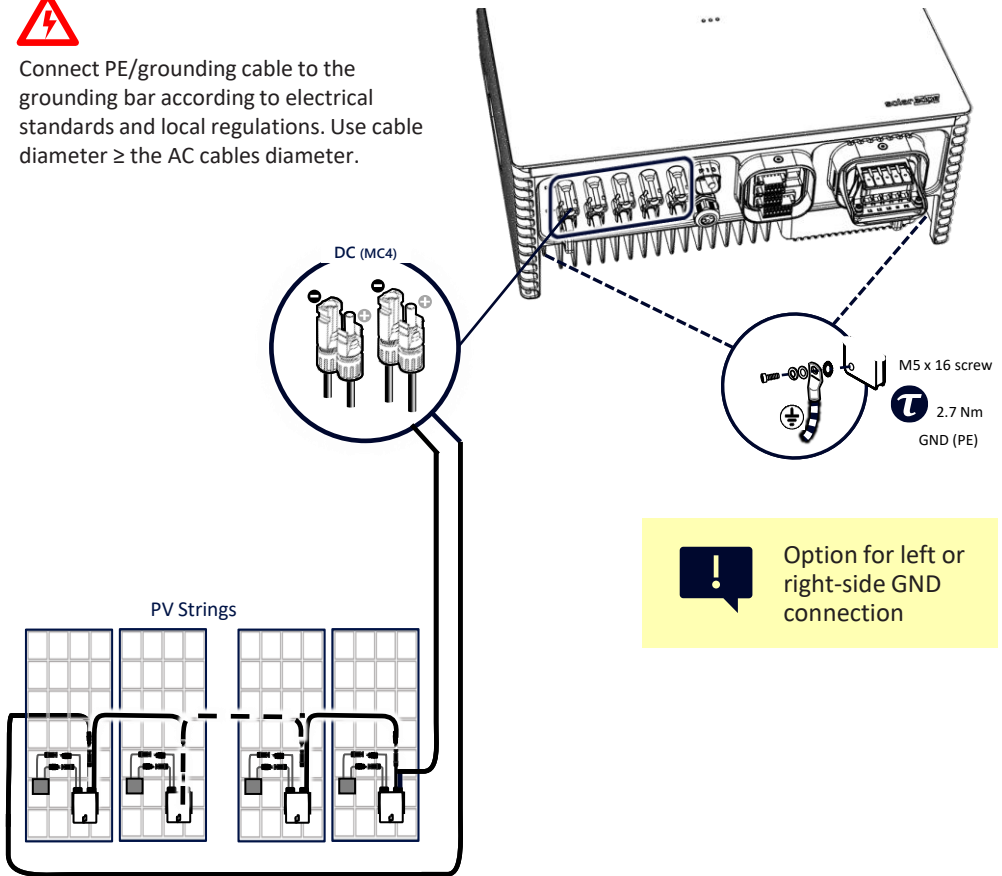
The unit is compatible with an RCD Type A



Wiring the inverter DC (PV)



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



Option for left or right-side GND connection



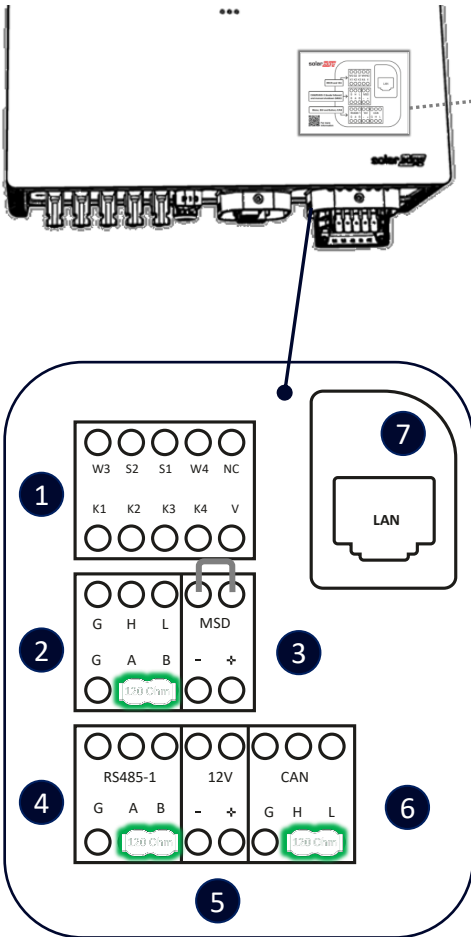
Wiring the inverter communications

- ! There are three different RS485-1 termination configurations for the inverter:
- Three termination plugs on the communication connectors as shown below.
 - 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

 = termination plug



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

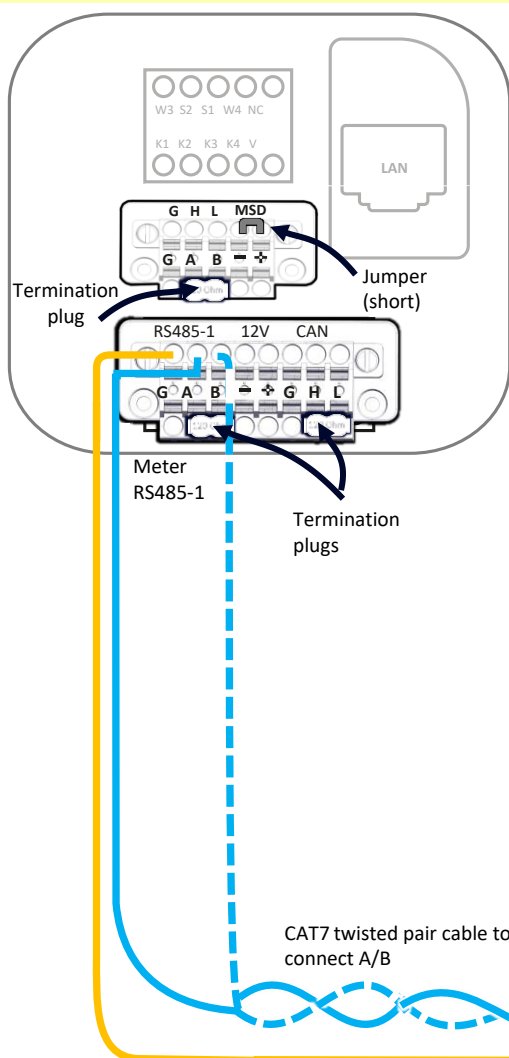


Wiring the Meter RS485-1

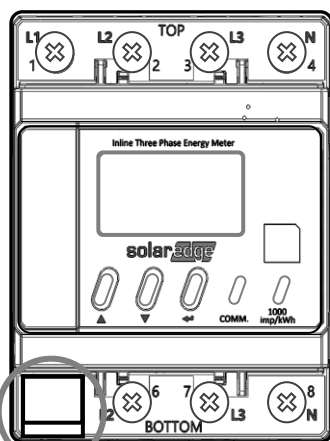
! Inverter RS485 termination settings:

- 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.



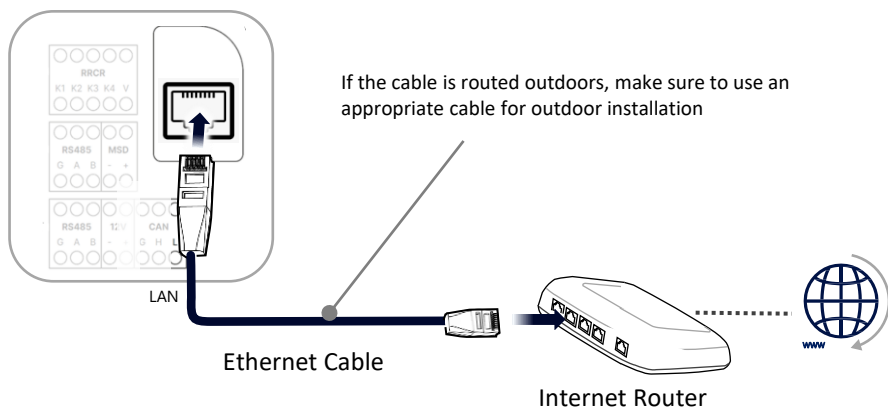
! The SolarEdge Inline meter supports SolarEdge Home Network. The Nexis Inverter does **NOT** support SolarEdge Home Network. It will be supported in the future.



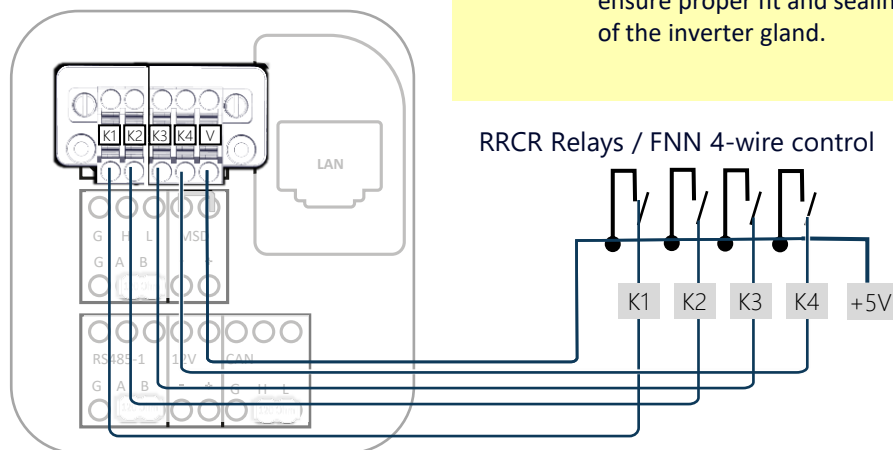
! Meter termination must **ALWAYS** be set to **ON**!



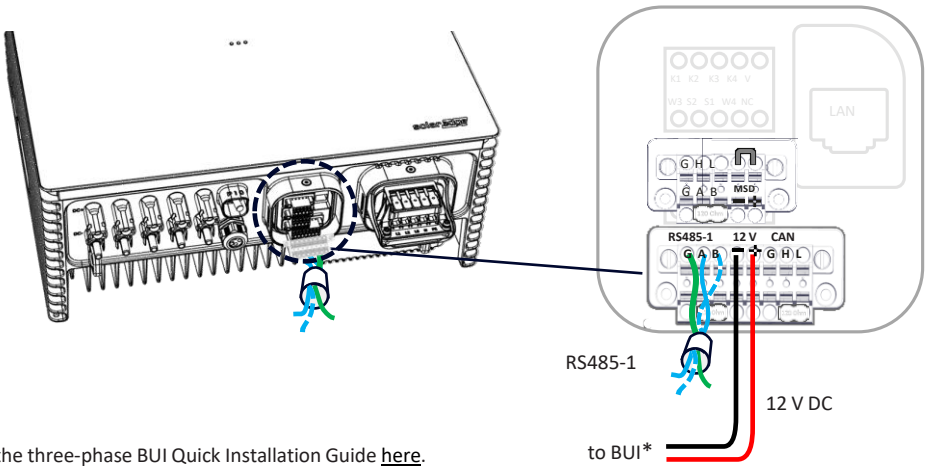
Wiring the LAN



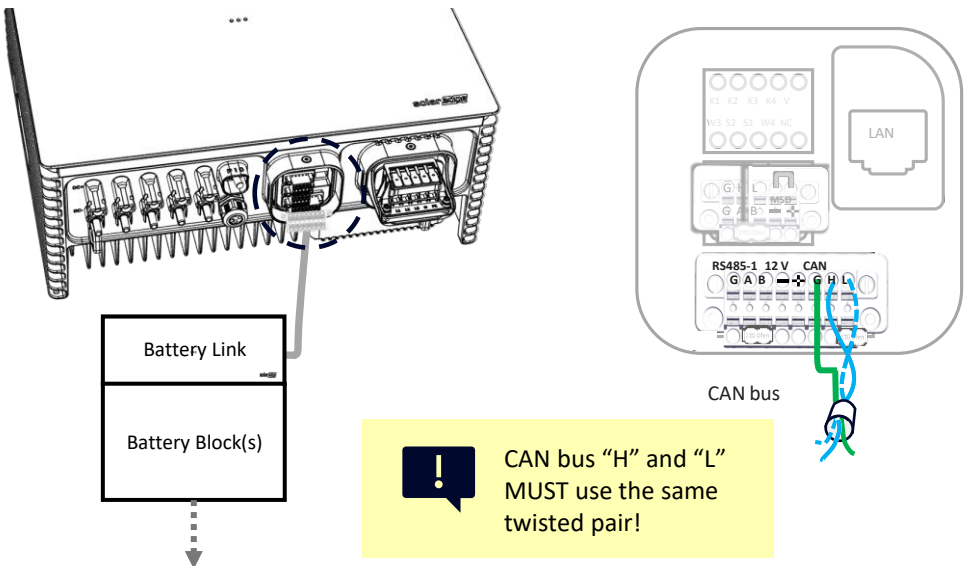
Wiring Radio Ripple Control Receiver (RRCR) / 14a Controller



Wiring communications and 12 V power for the BUI



Wiring communications from the Battery to the Inverter



Wiring a Manual Shutdown switch to the inverter for Backup operation



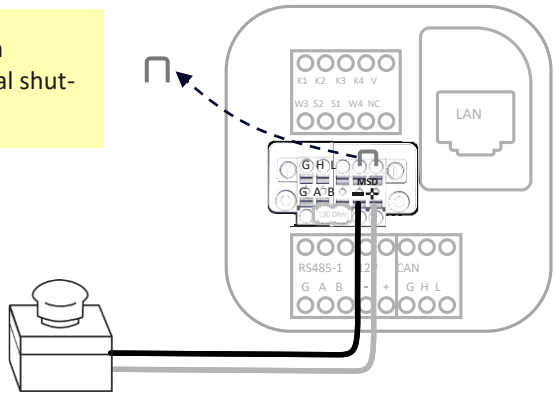
Remove jumper when connecting the manual shutdown switch

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

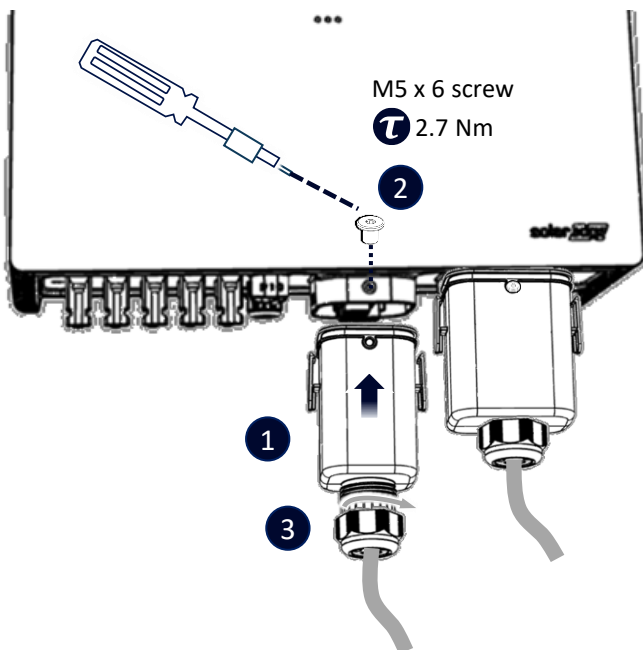
For the MSD switch application note, scan or click:



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

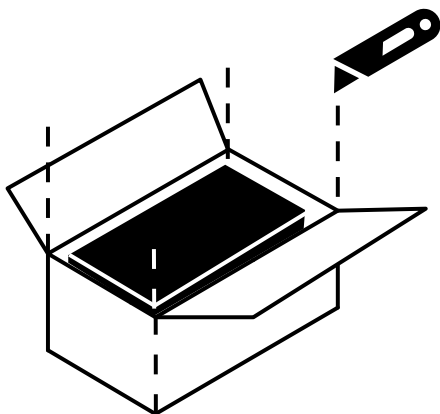


Refit the Comms cover cup

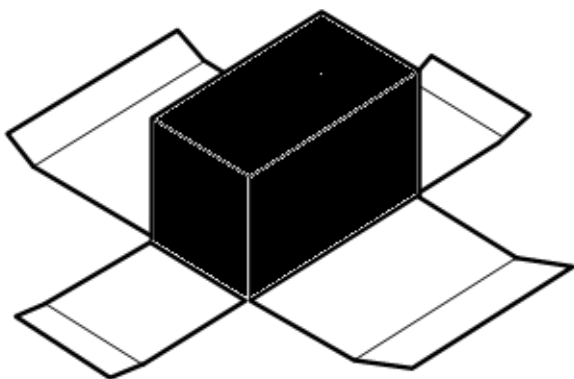


Opening the Battery Block Package

- 1 Cut along the dashed lines



- 2 Use the package as your working surface



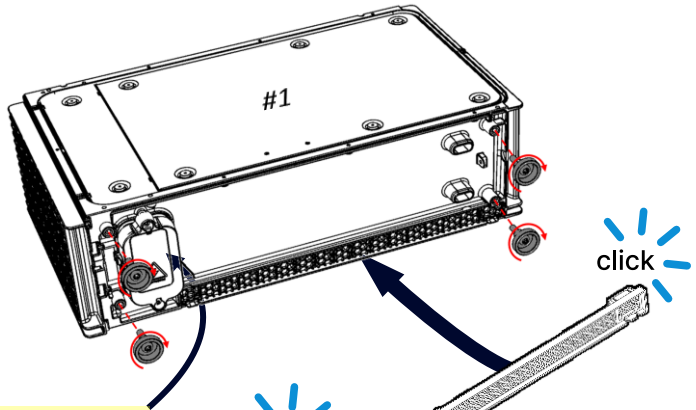
Installing the Battery

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

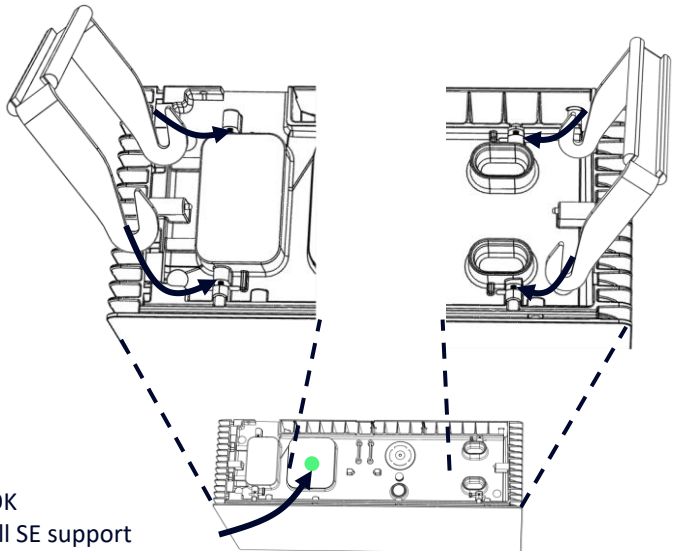


Do not remove the bottom cap cover

click

2 Attach the filter

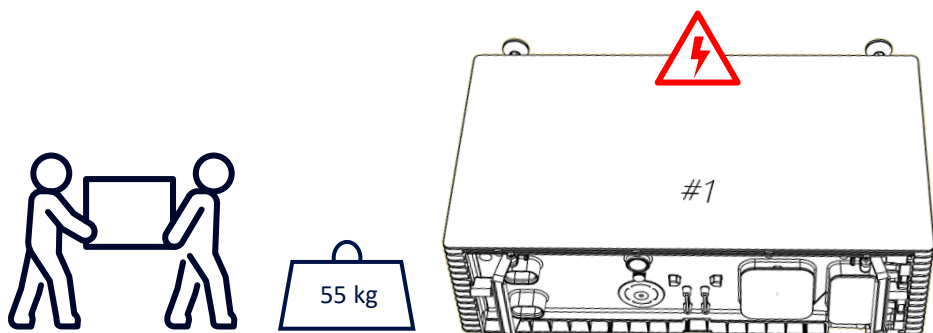
3 Attach the handles



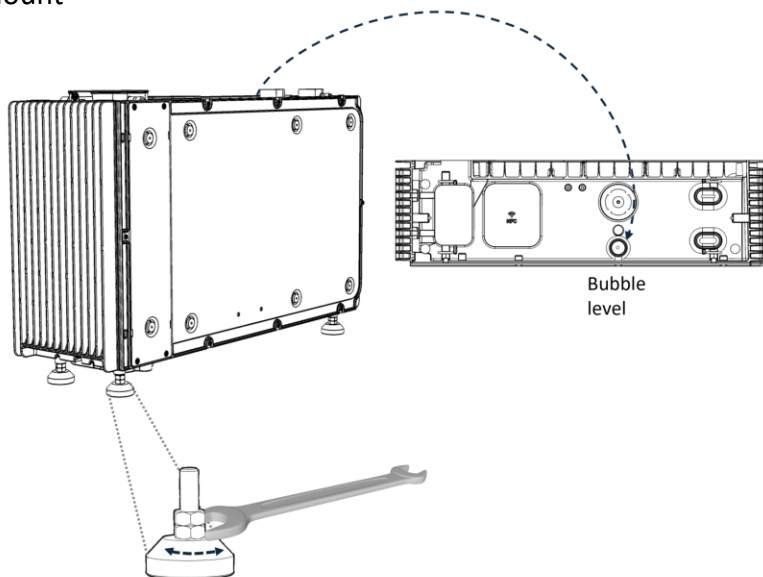
Blinking LED – all OK
No LED – error! Call SE support



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

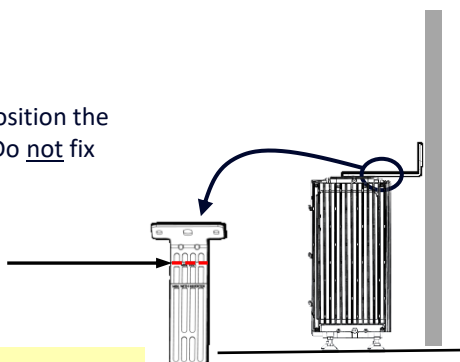


- 5 Level the first Battery Block by adjusting its feet - floor mount



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"):



$1,5 \text{ cm} \leq \text{Distance from wall} \leq 10 \text{ cm}$

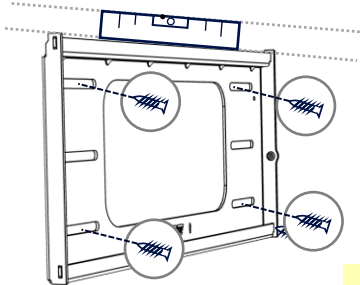


Installing the Battery

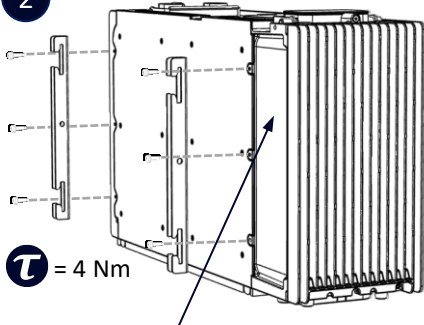
Wall mount – Battery Block #1

1

Level the wall mount bracket and attach it to the wall



2

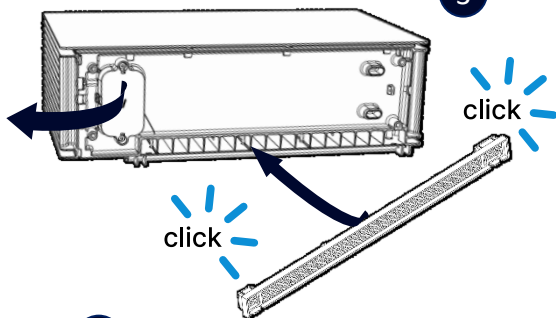


Take note of the OFFSET that these brackets cause to the position of the Battery Block when mounted on the wall.



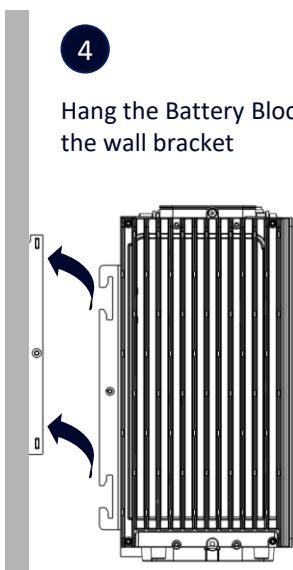
Do not remove the bottom cap cover

3



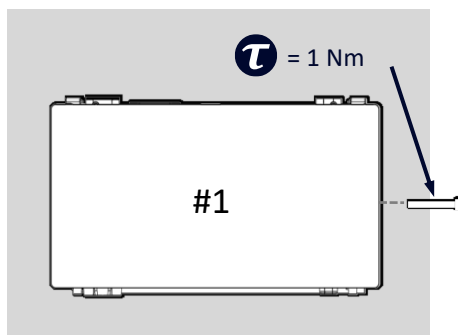
4

Hang the Battery Block on the wall bracket

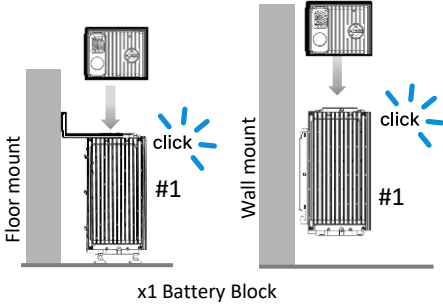


5

Fix the Battery Block to the wall bracket

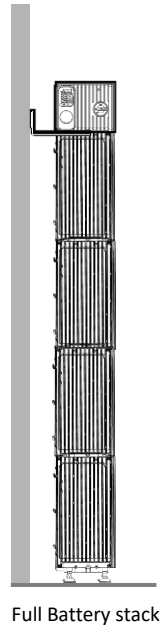
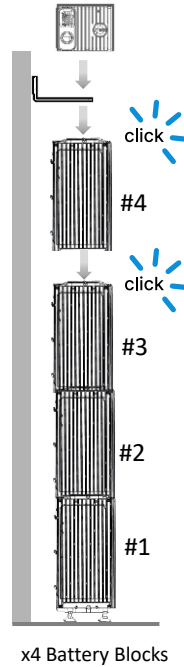
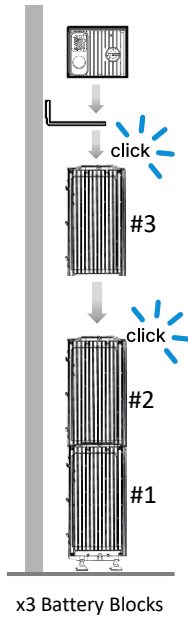
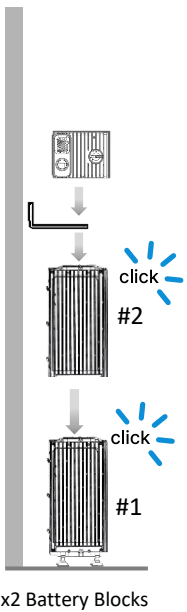


Building one battery stack – 1,2,3,or 4 Battery Blocks with Battery Link



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

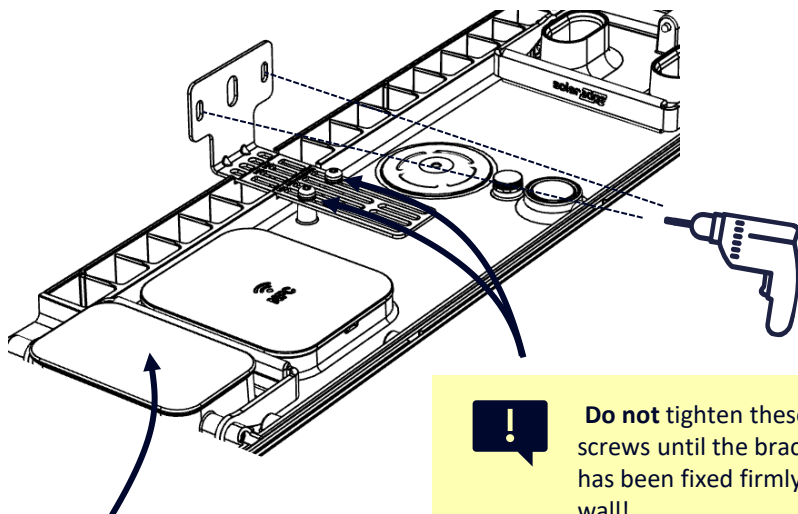
Same process for Floor or Wall mount



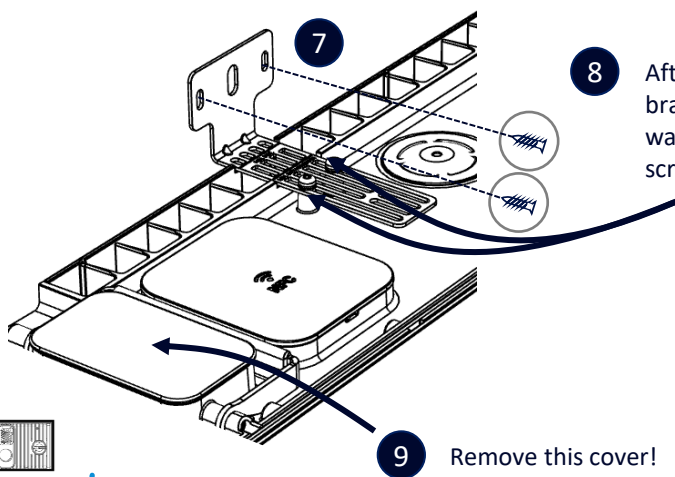
We recommend that the tilt bracket be installed either on top of the uppermost Battery Block OR on the one below the uppermost Block. It must NOT be installed on any of the lower-level Battery Blocks.



- 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.

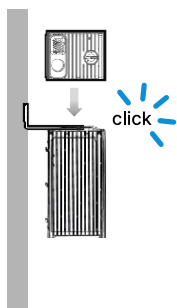


! Do not remove this cover until drilling is complete!



- 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.

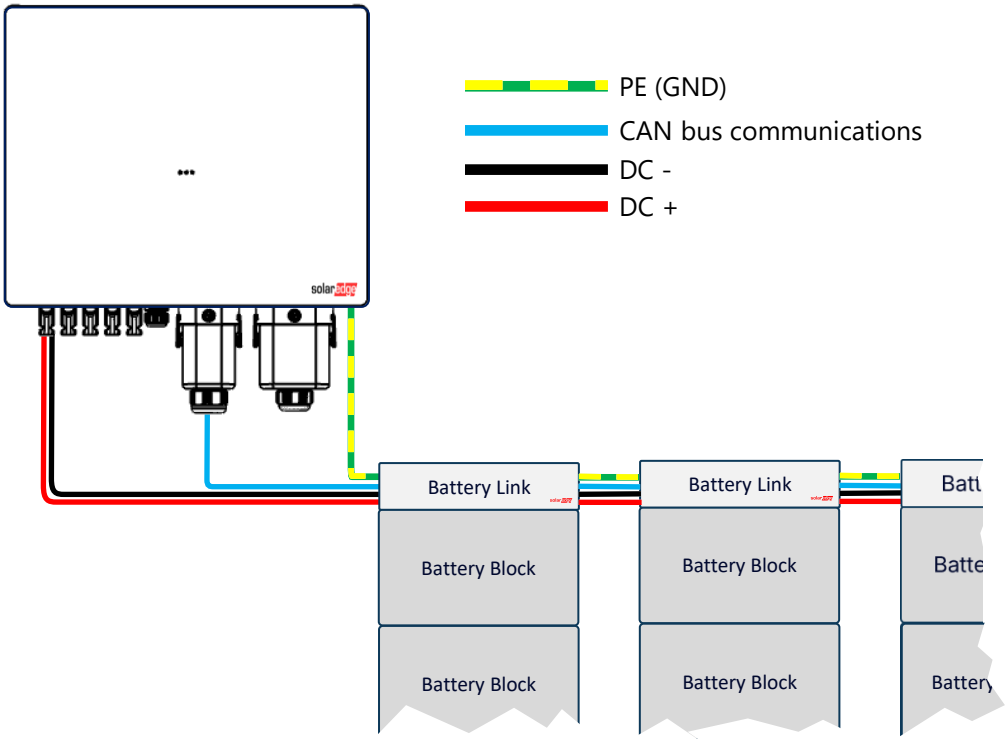
- 10 Attach the Battery Link to the top of the last Battery Block in the Stack.



Side-by-side multi-battery configurations

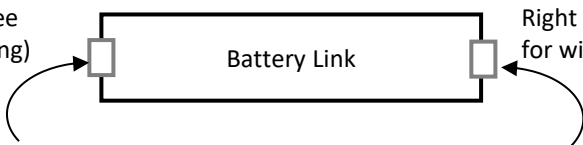
Inverter at one end of battery stacks

SolarEdge Nexis 3ph Inverter



Left entry (see [here](#) for wiring)

Right entry (see [here](#) for wiring)

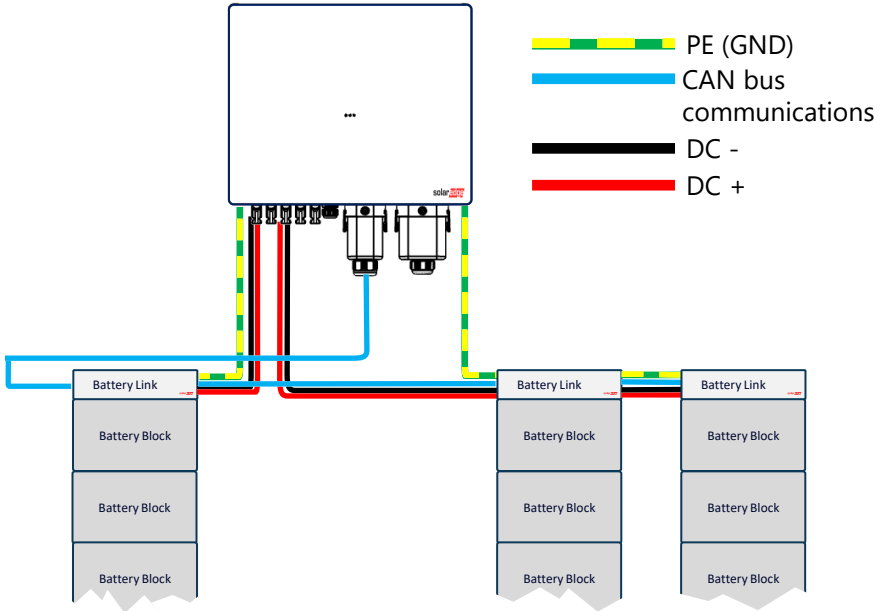


Glands: 2 supplied in the inverter package. Additional glands can be purchased (PN: IAC-NX-GLD-01)

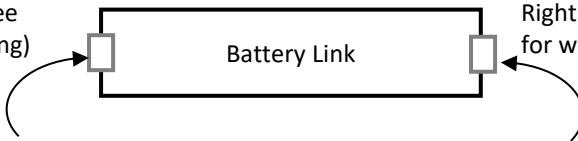


Inverter in-between battery stacks

SolarEdge Nexis 3ph Inverter



Left entry (see [here](#) for wiring)



Right entry (see [here](#) for wiring)

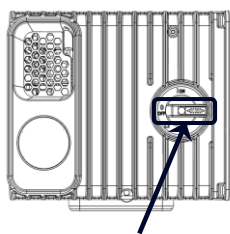
Glands: 2 supplied in the inverter package. Additional glands can be purchased (PN: IAC-NX-GLD-01)



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.

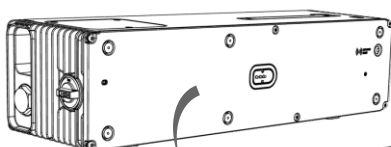
Opening the Battery Link



1 OFF

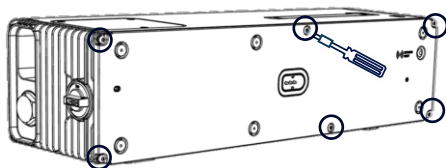


Wait 5 min before opening the Battery Link

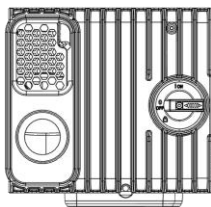


2

Decorative cover



3 Release captive screws x6 (T25)



4



Wiring the Battery Link – left entry

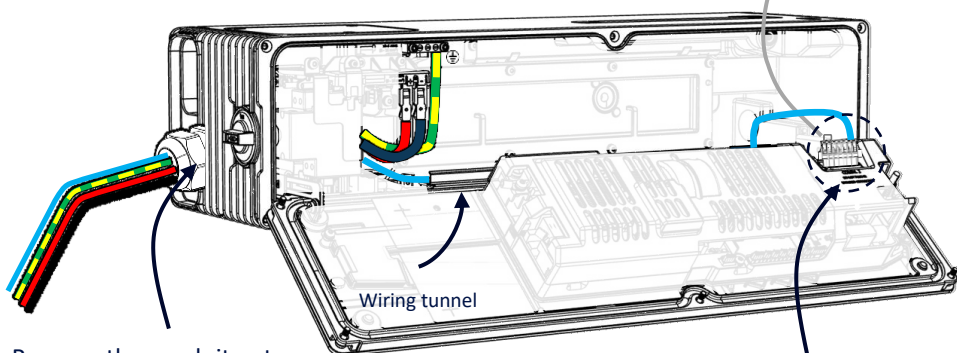


DC and GND wire stripping lengths:

 19 mm

 12 mm

Ferrules are NOT mandatory.

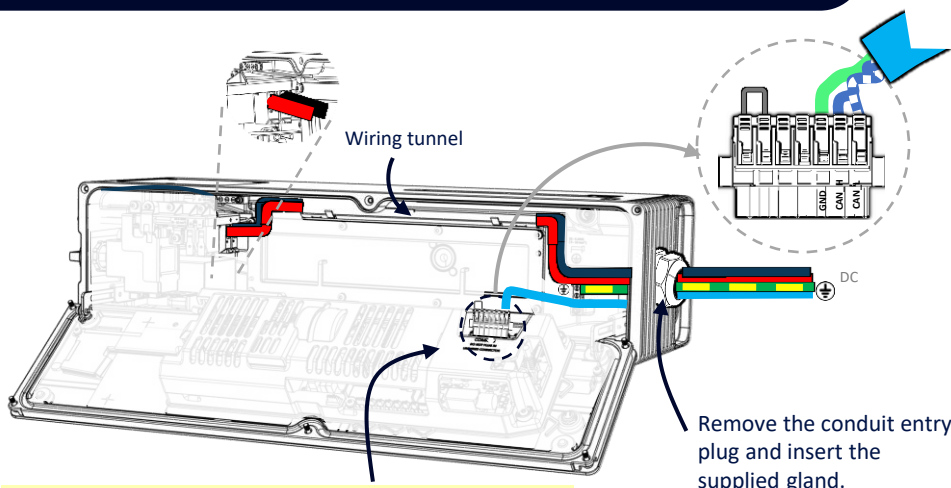


Remove the conduit entry plug and insert the supplied gland.



Do NOT insert an unwired plug into the comms connector!

Wiring the Battery Link – right entry



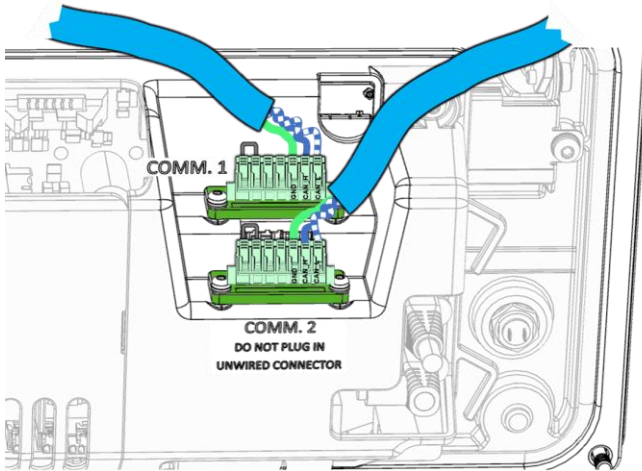
Do NOT insert an unwired plug into the comms connector!



Wiring Battery Link comms for multi-stack configurations



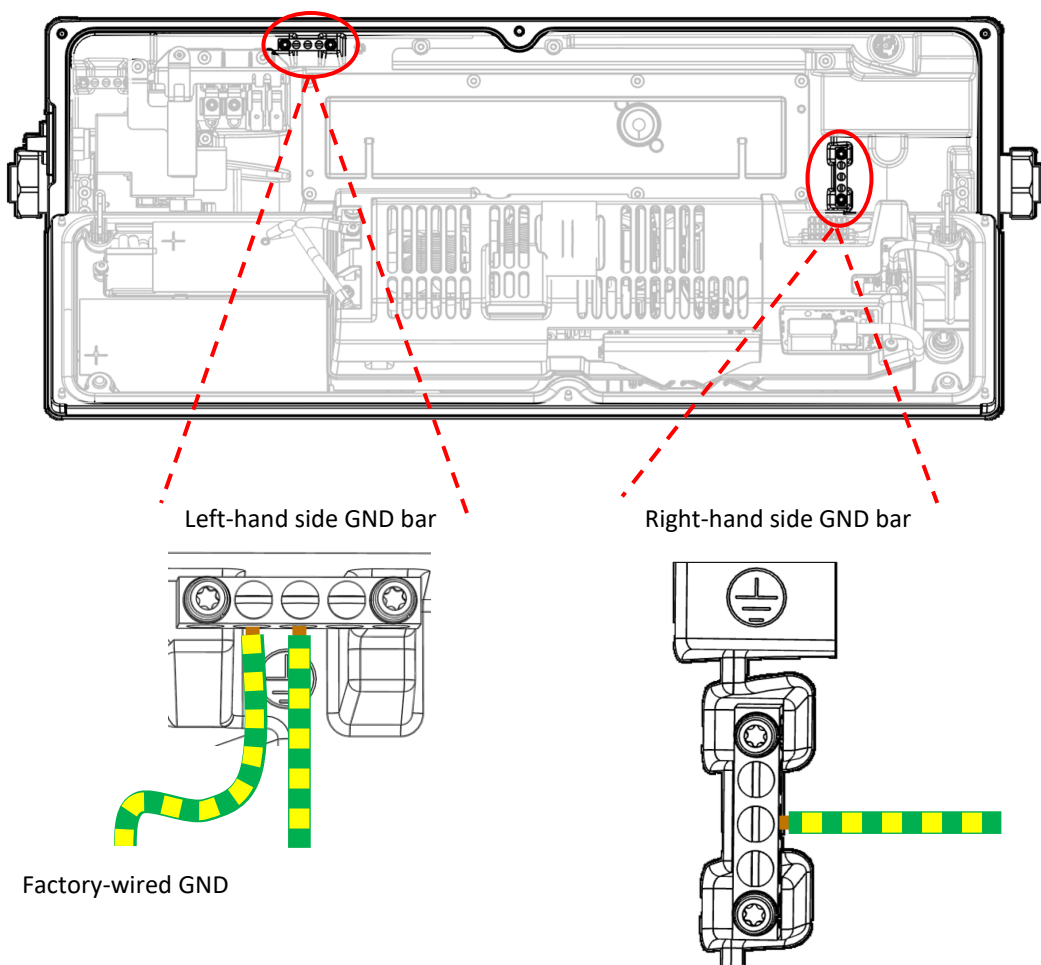
For comms cables coming into the battery link from both sides of the link:-



- 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



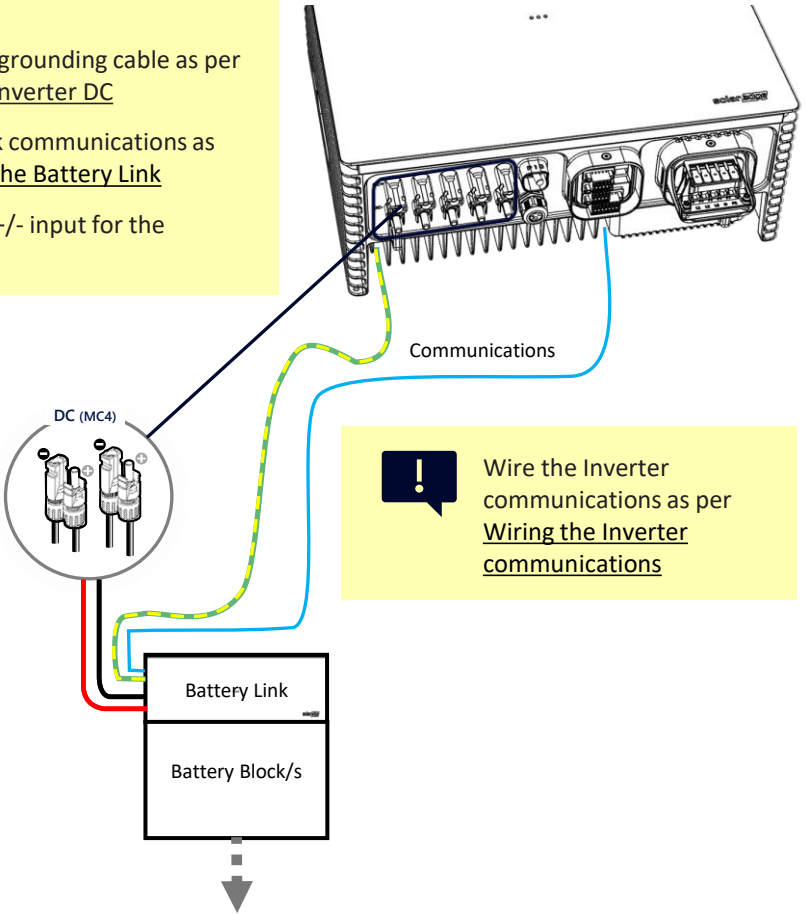
For all GND wire gauges, the tightening torque for the GND bar screws is 4 Nm.



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

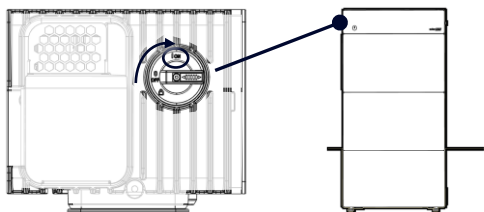


Wire the Inverter communications as per Wiring the Inverter communications

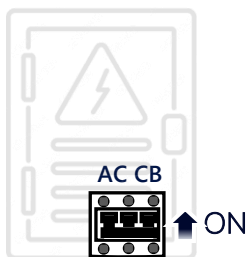


| Power on the system

1 Battery Link



2 Electrical cabinet

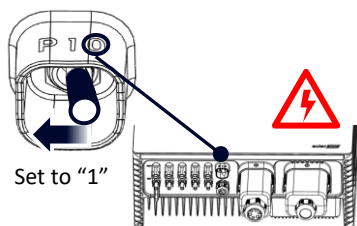


3 BUI



Set to "1"

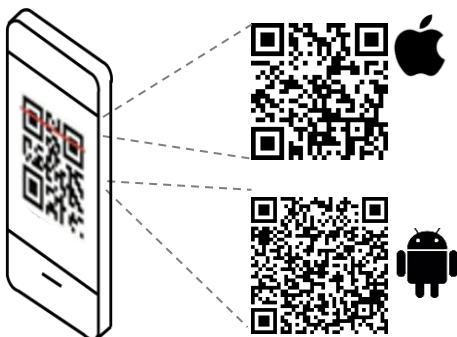
4 Inverter



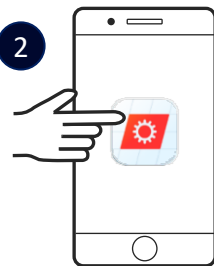
| Commissioning the inverter

1

Scan for SolarEdge GO



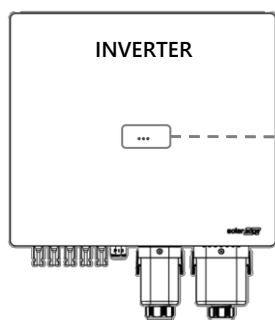
2



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

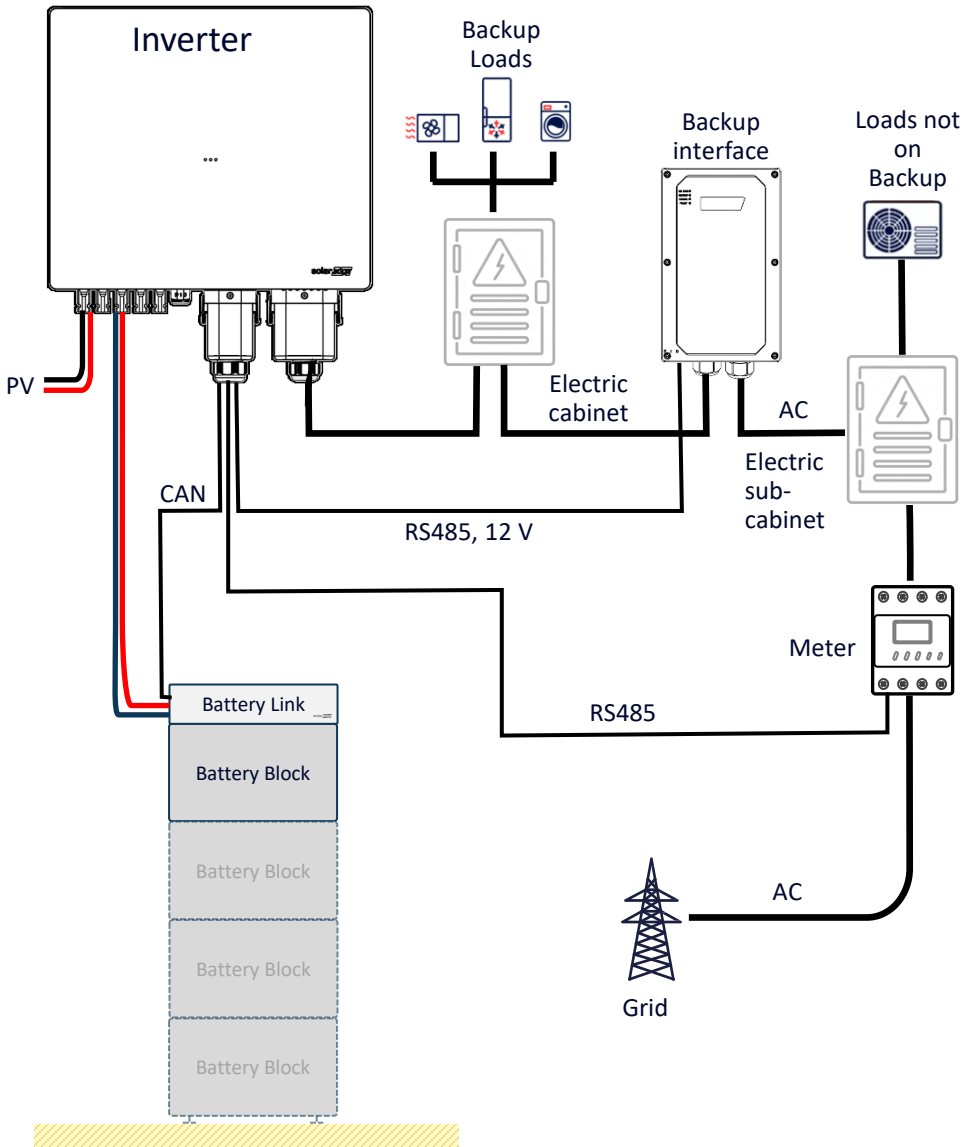
Backup interface and meter

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.

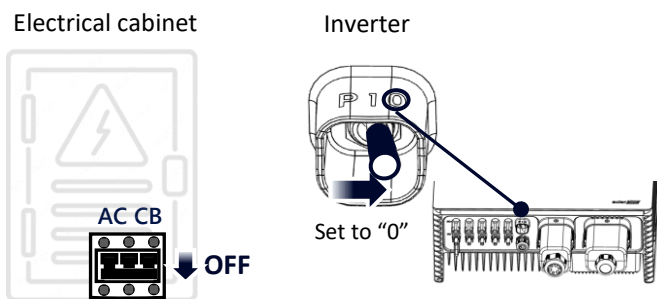
BUI – termination is always ON and cannot be changed.



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

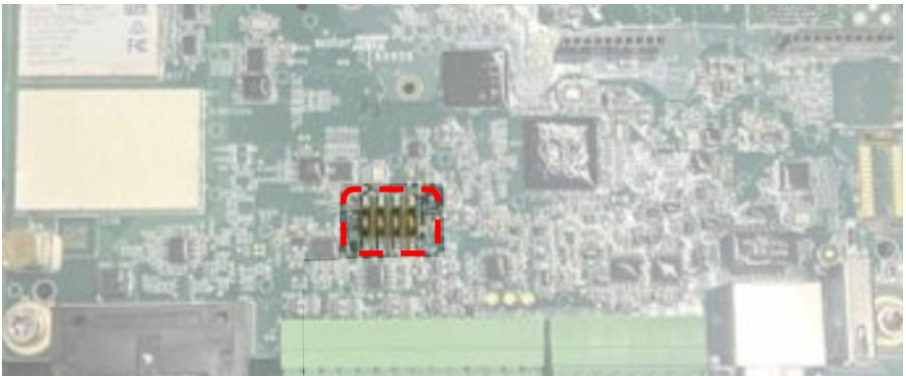


To set the inverter's termination

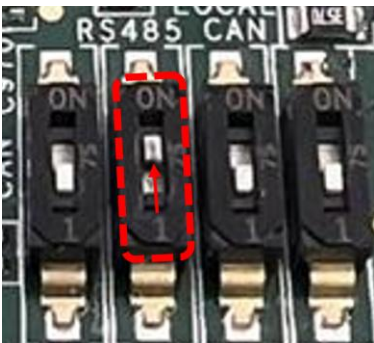
1. Identify the communications board



2. Identify the DIP switches



3. Set the RS485 DIP switch "ON".



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



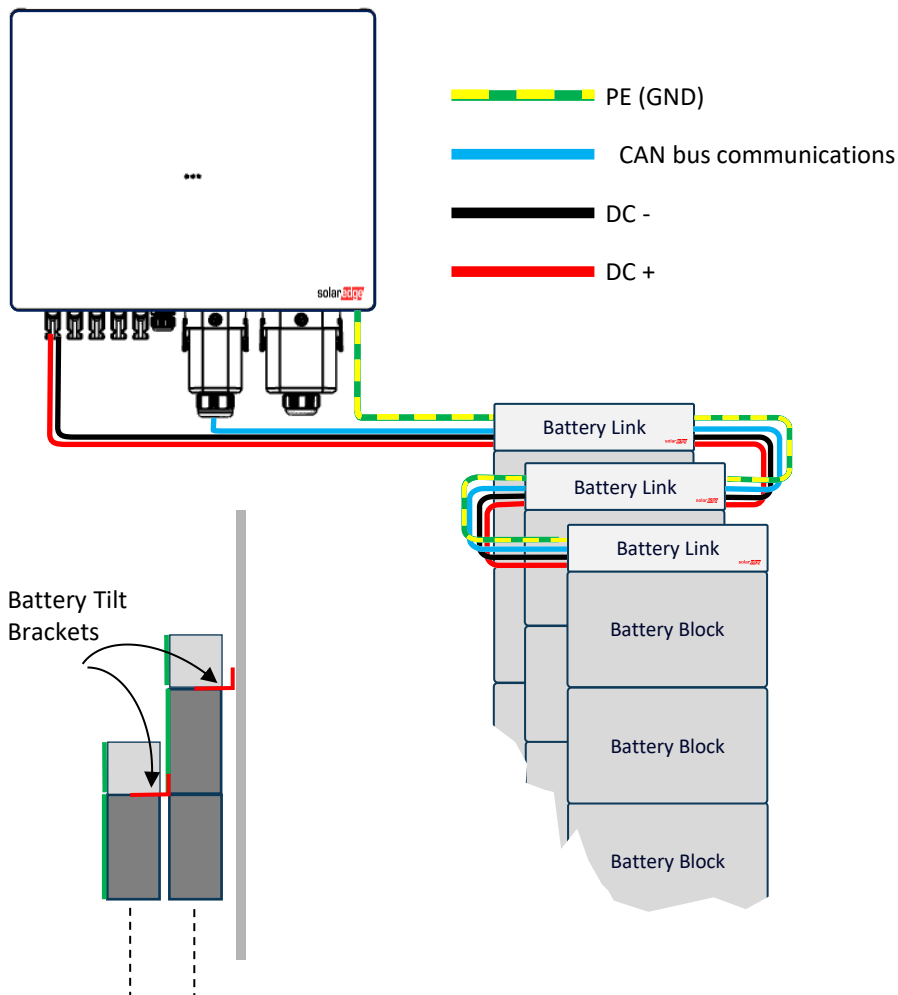
5. Refit the inverter decorative cover.



Appendix 3

Front-to-back multi-battery configuration

SolarEdge Nexis 3ph Inverter



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 $\leq$ 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

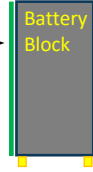
Supported stacking options:



Decorative cover

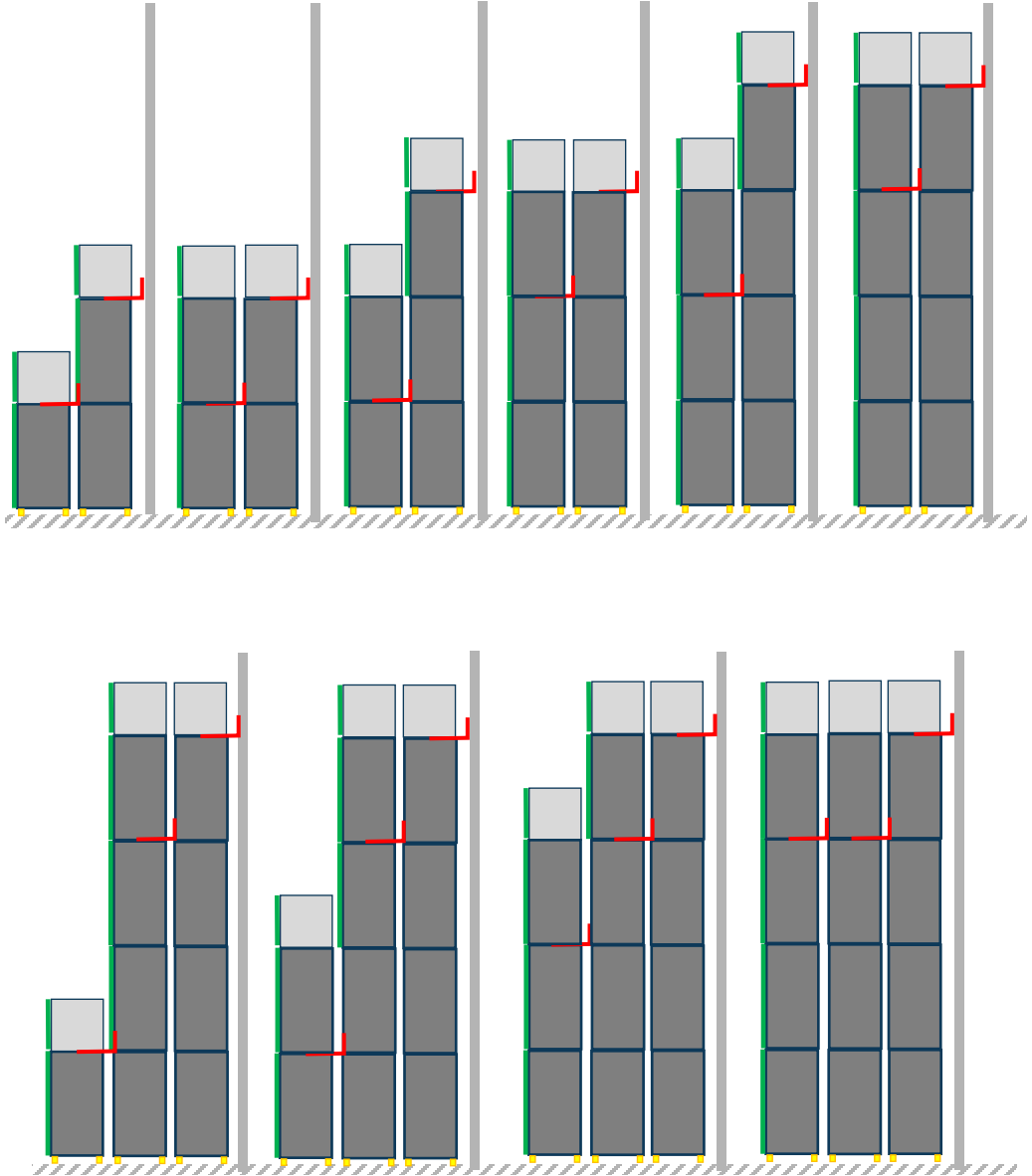


Decorative cover



Tilt Bracket

Battery foot



Front-to-back configuration

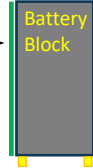
Non-supported stacking options:



Decorative cover

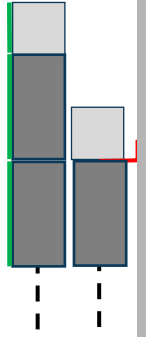
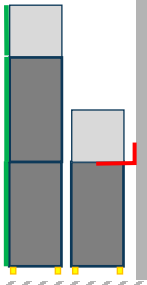
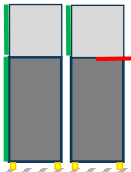


Decorative cover

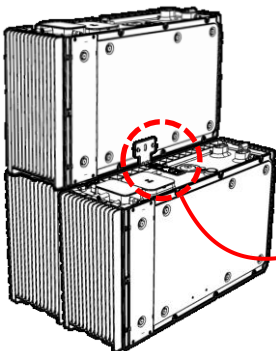
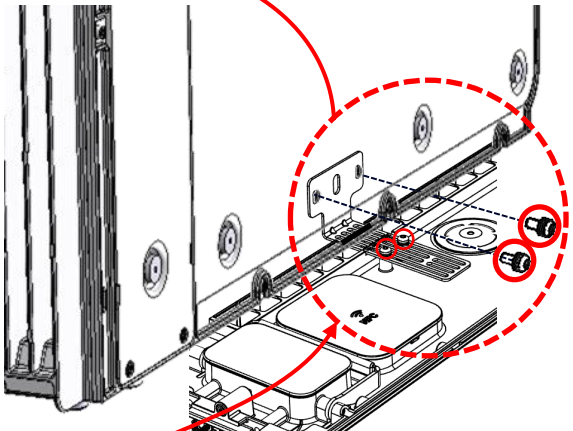
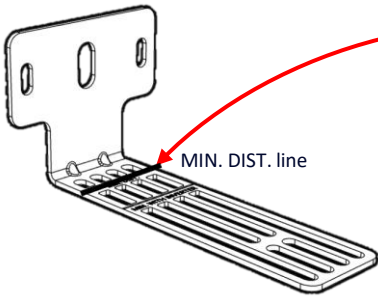


Battery Tilt Bracket

Battery foot



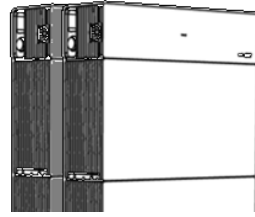
Connecting Battery Stacks together



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



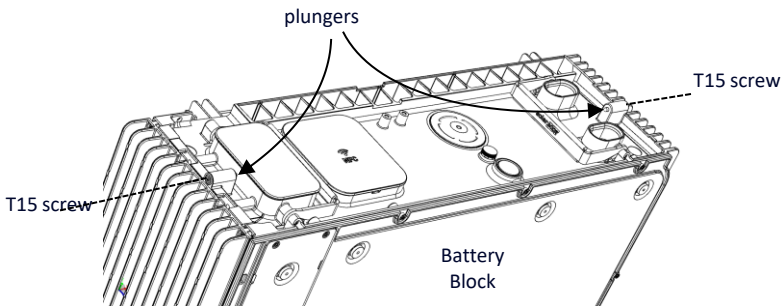
Wiring the Battery Links – front-to-back (stacks same height)



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.

