

## 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



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



MAN-01-01400-1.1

**SolarEdge.com**

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V1.1

# | New from SolarEdge !!

## 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 !!

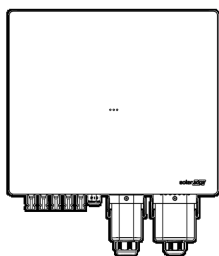
SolarEdge will let you know when the system completes the updates and is ready for commissioning.

\*available for wired Ethernet systems!

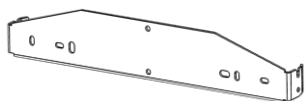


# What's in Each Box

## Box 1- Inverter 3ph



SolarEdge Nexis  
Inverter 3ph



Inverter wall  
bracket



Power rating  
labels x6



M5 x 16 torx  
screws (GND and  
bracket)

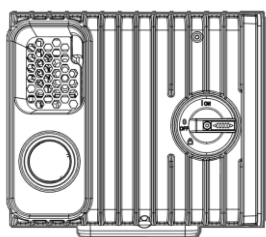


M5 x 6  
(spare cup  
torx screws)



# What's in Each Box

## Box 2- Battery Link



Battery Link

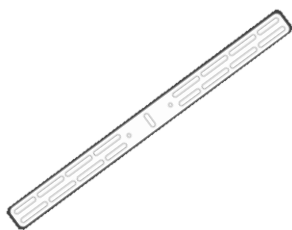


x4

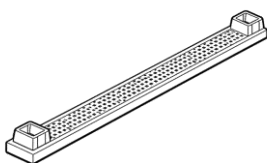
Battery Block foot



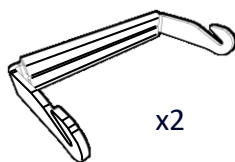
Battery Tilt bracket



Battery Tilt bracket extension (dry wall installations)

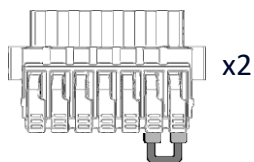


Battery Block filter



x2

Battery Block handle



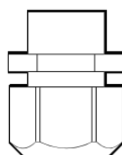
x2

Communications connector



x4

Screws M5X12  
(Battery Tilt bracket  
and Tilt bracket  
extension)



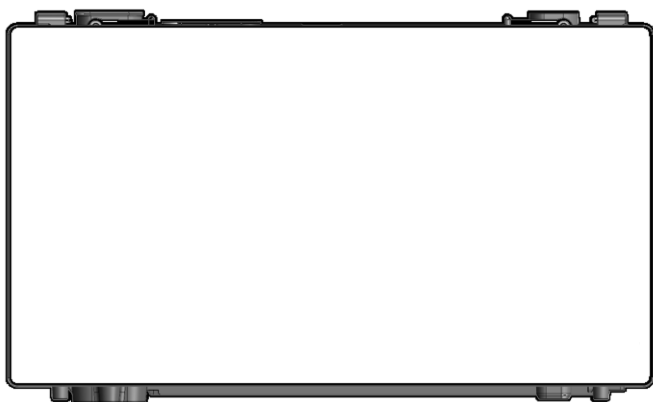
x1

Cable gland  
(for Battery Link wiring)



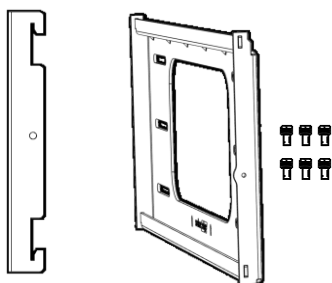
# What's in Each Box

## Box 3 - Battery Block



SolarEdge Nexus  
Battery Block

Sold separately!



SolarEdge Nexus Wall Mount  
Bracket and screws



### IMPORTANT NOTE

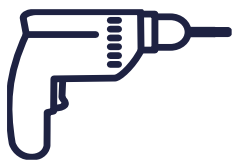
Only one wall mount bracket is needed per battery stack.

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



# Tools Needed:

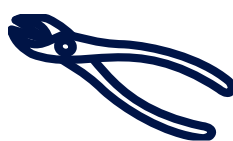
## What You Need for the Installation



Drill



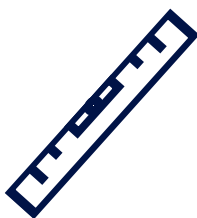
Pencil



Wire cutter



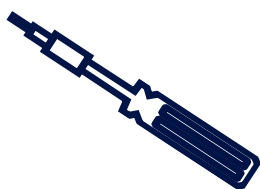
Wire Stripper



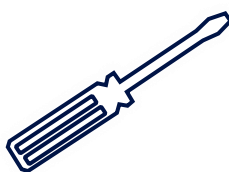
Level



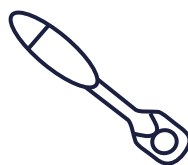
Hammer



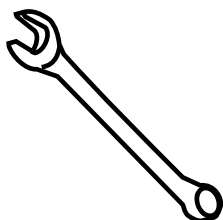
Adjustable Torque Torx  
Screwdriver set



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!**

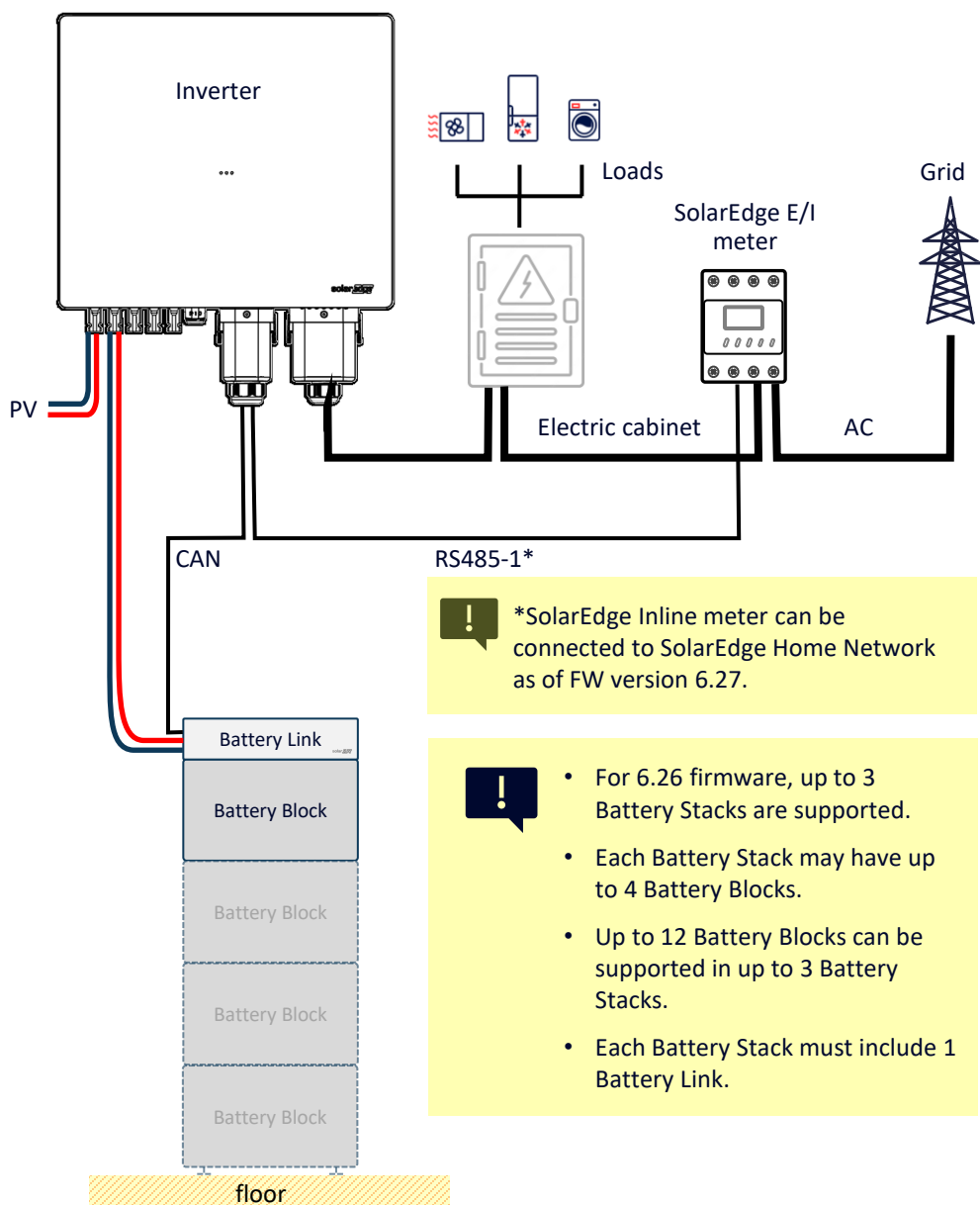
Denotes a hazard. The symbol calls attention to a procedure that could result in damage or destruction of the product if not correctly performed or adhered to. Do not proceed beyond a caution sign until the indicated conditions are fully understood and met.



# 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.

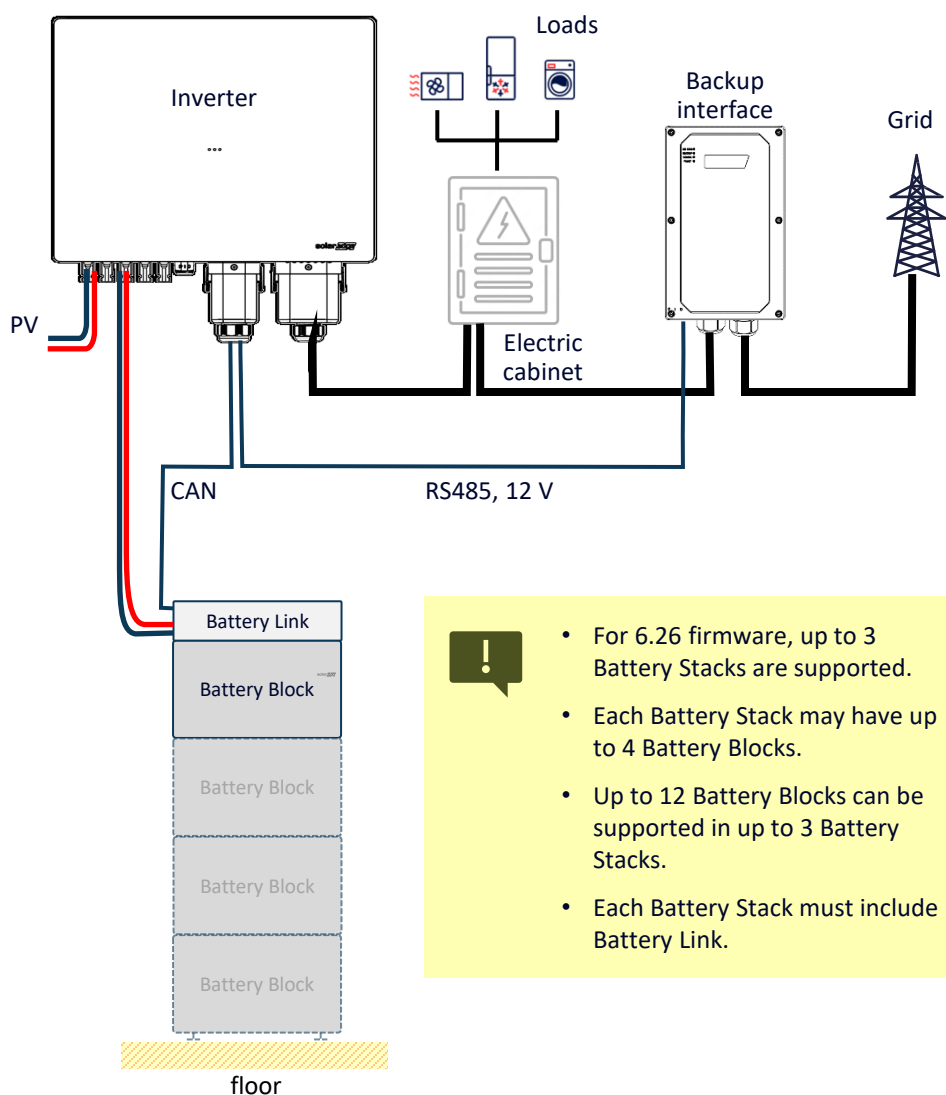


# Before you start

## 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](#).

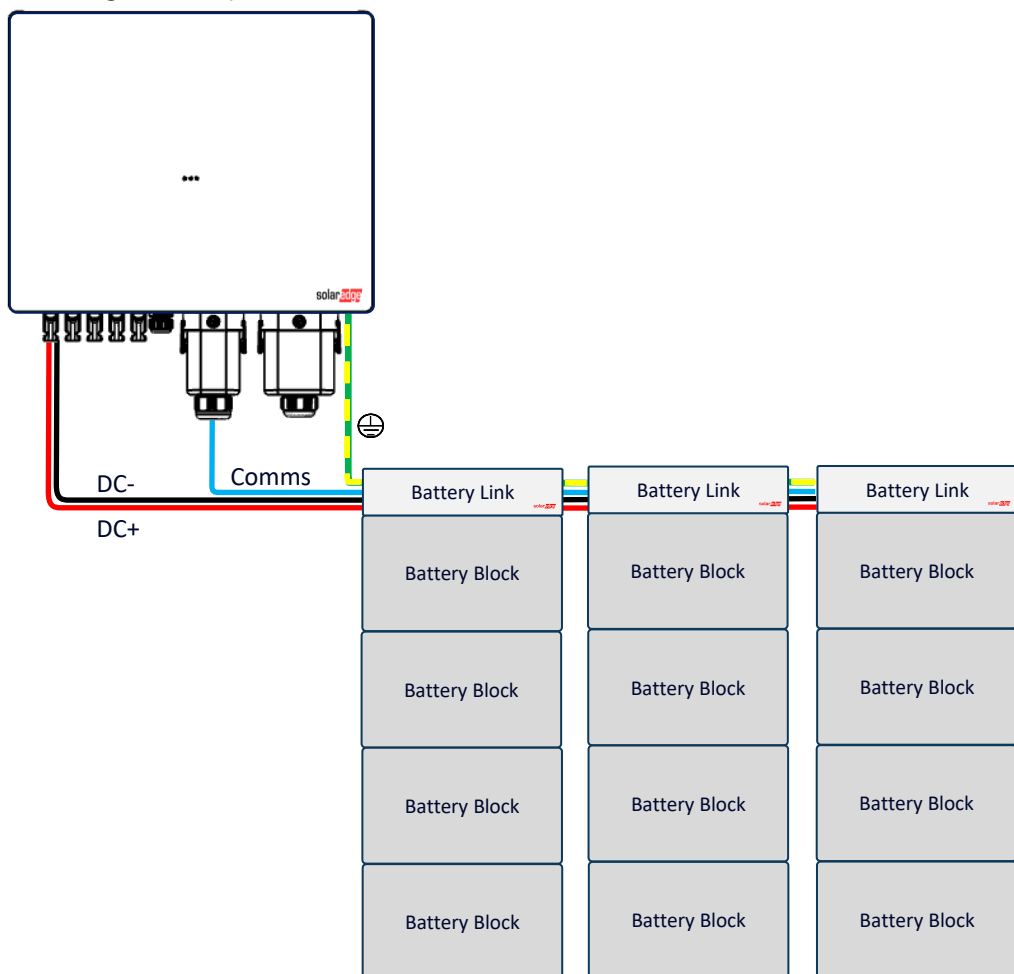


# Before you start

## Multi-battery configurations

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

SolarEdge Nexis 3ph Inverter



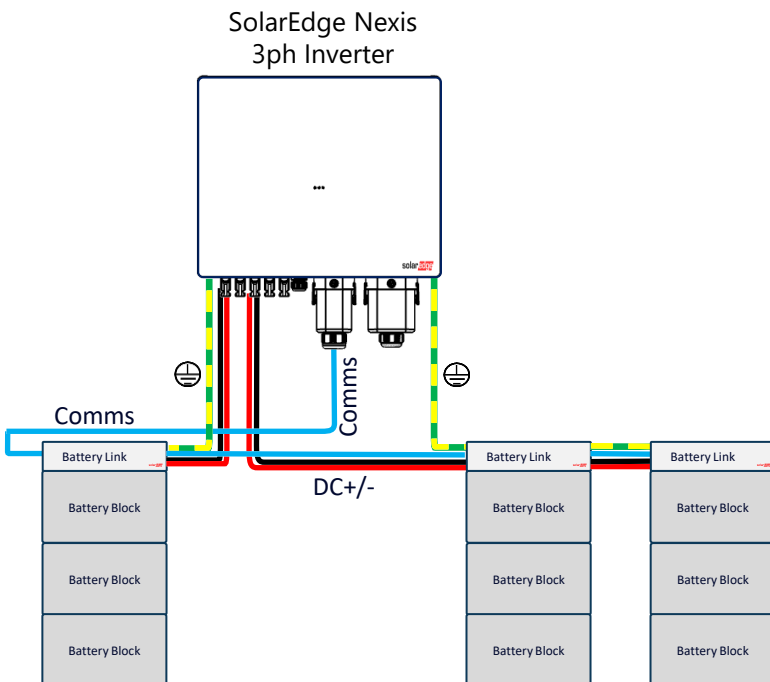
# Before you start

## 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.



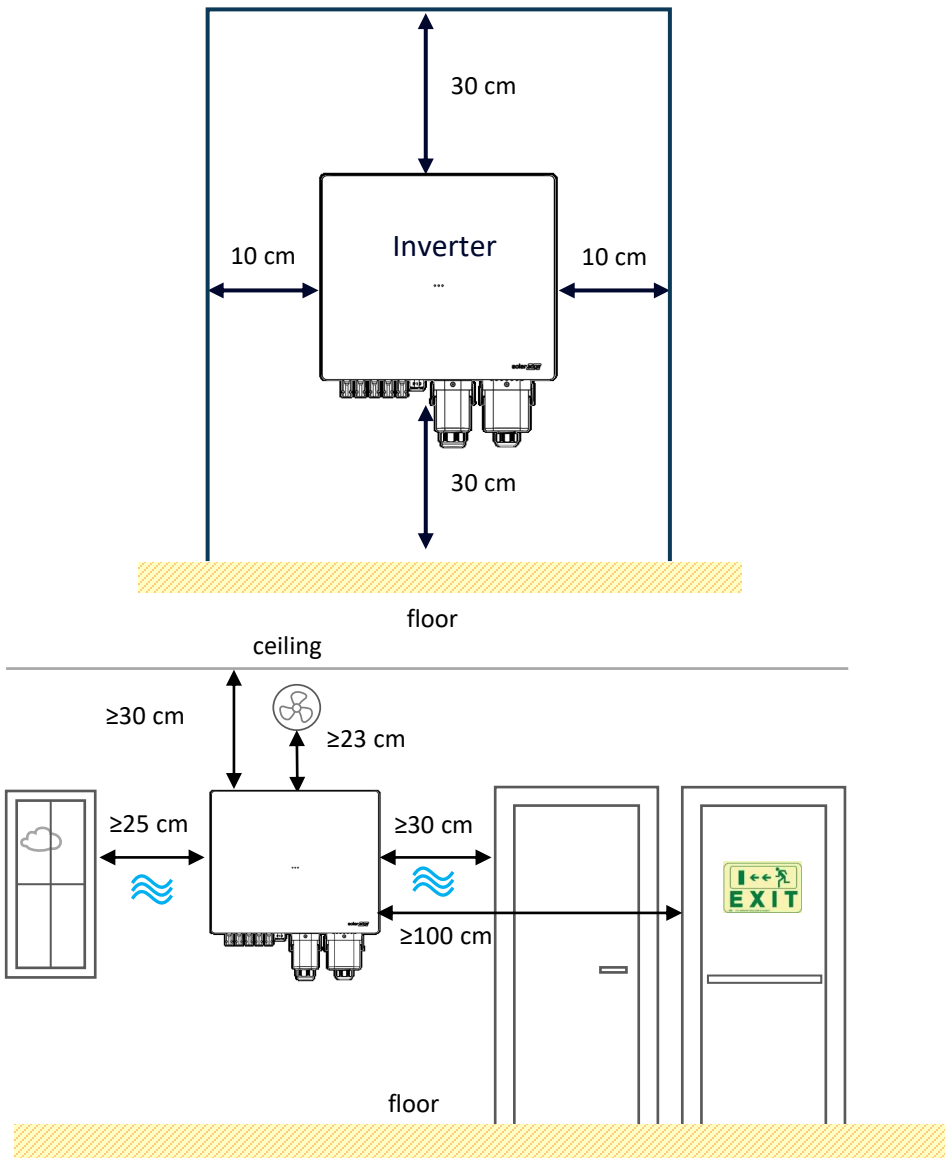
# | Let's get started!

## A. Planning

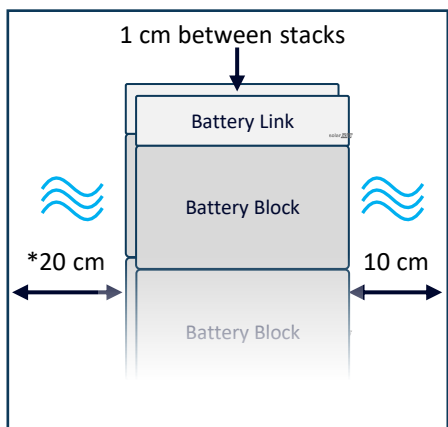
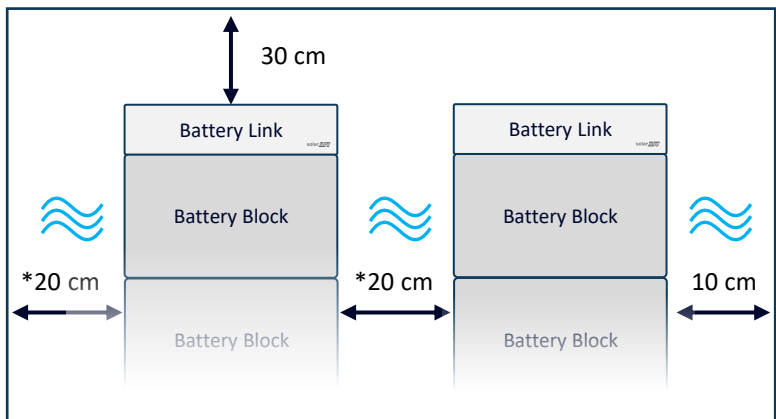
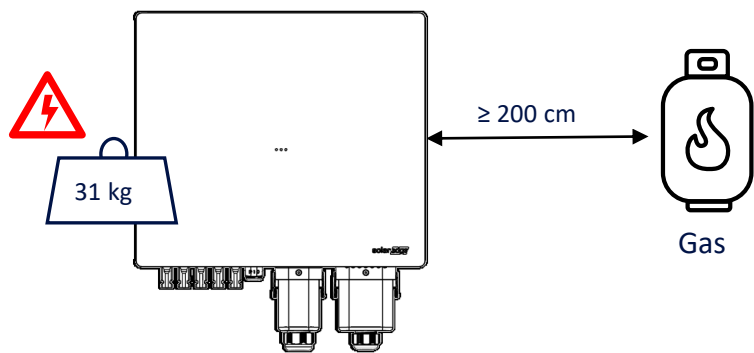
Indoor



Outdoor



# A. Planning



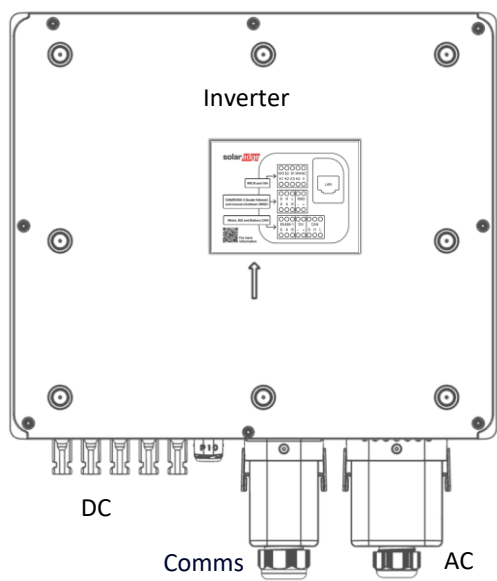
| Inverter-to-battery cable size and length |            |
|-------------------------------------------|------------|
| Cross-section (mm <sup>2</sup> )          | Length (m) |
| 6                                         | 30         |
| 8                                         | 40         |

## ! BATTERY PLANNING:

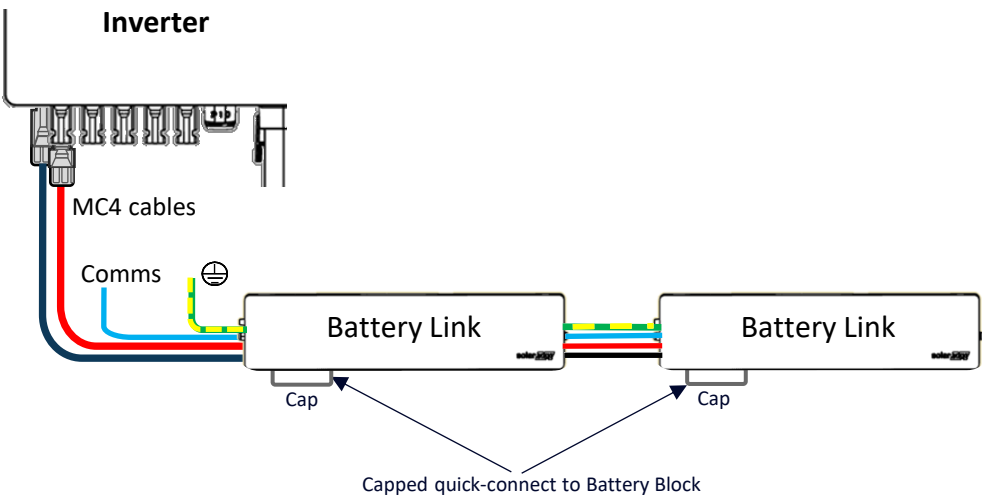
- \*10 cm is allowed, but 20 cm is recommended for servicing the Battery Block/s.
- Minimum distance to window or door is 30 cm
- Assuming a shielded CAT7 comms cable and at least 6 mm<sup>2</sup> DC cables, the maximum distance between the Inverter and the furthest Battery Stack is 30 m.
- For all cable 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<sup>2</sup> 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



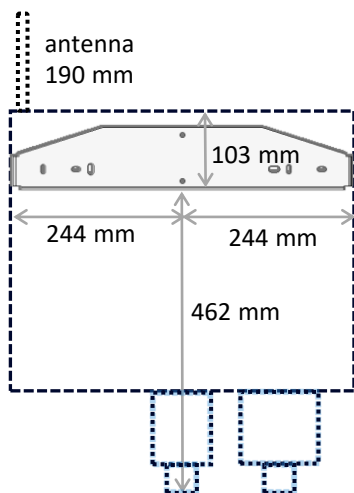
### Reminder - Auto software updates

\*Only applicable for wired ethernet systems!

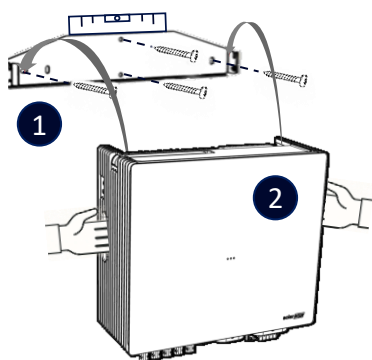
To save valuable commissioning time, we recommend that you first connect the inverter to the battery, internet, and the AC, and then turn the system ON for background software updates. You can then proceed with other installation activities while the software is updating.



## Mounting the inverter

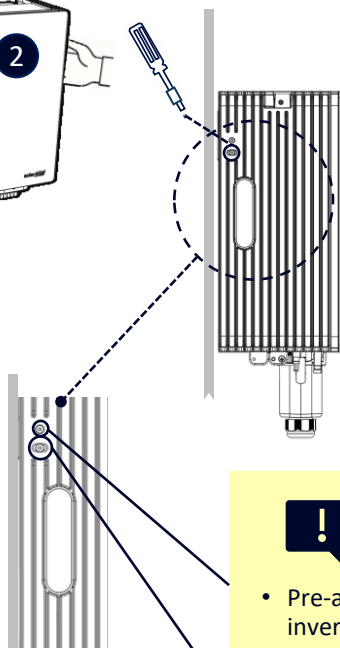
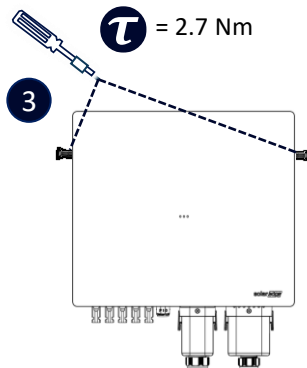


Use these measurements to ensure that the inverter will easily fit in the planned space available when attaching the wall-mount bracket to the wall.



M5 x 16 screws x2

$\tau = 2.7 \text{ Nm}$



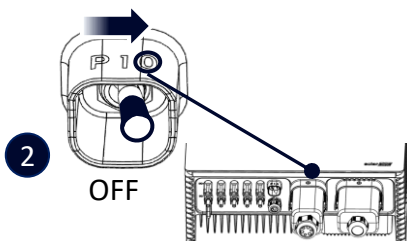
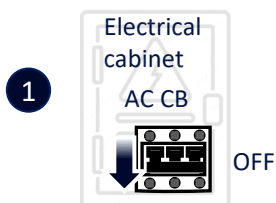
- Pre-assembled pins to hang the inverter on the bracket. Do NOT unscrew!
- Screws x2 used as to secure the inverter to the bracket



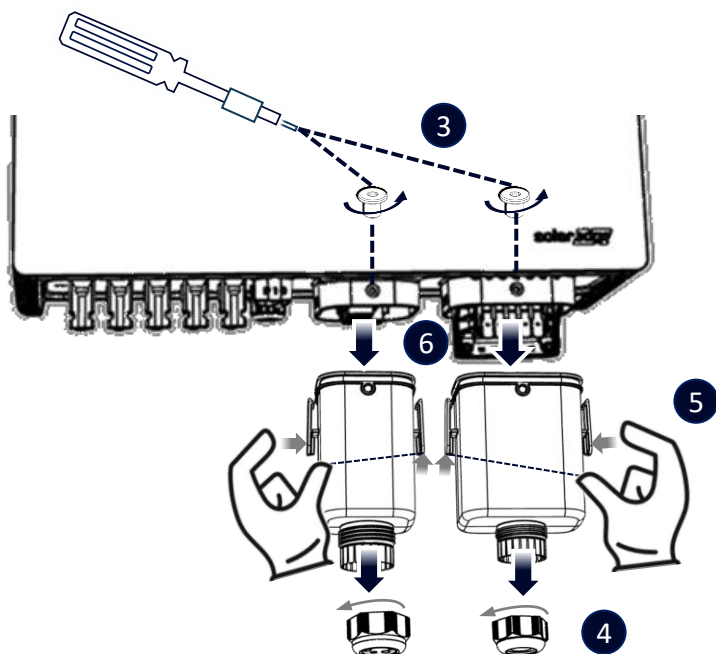
## | Wiring the inverter



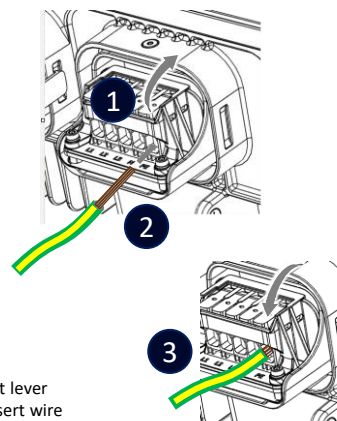
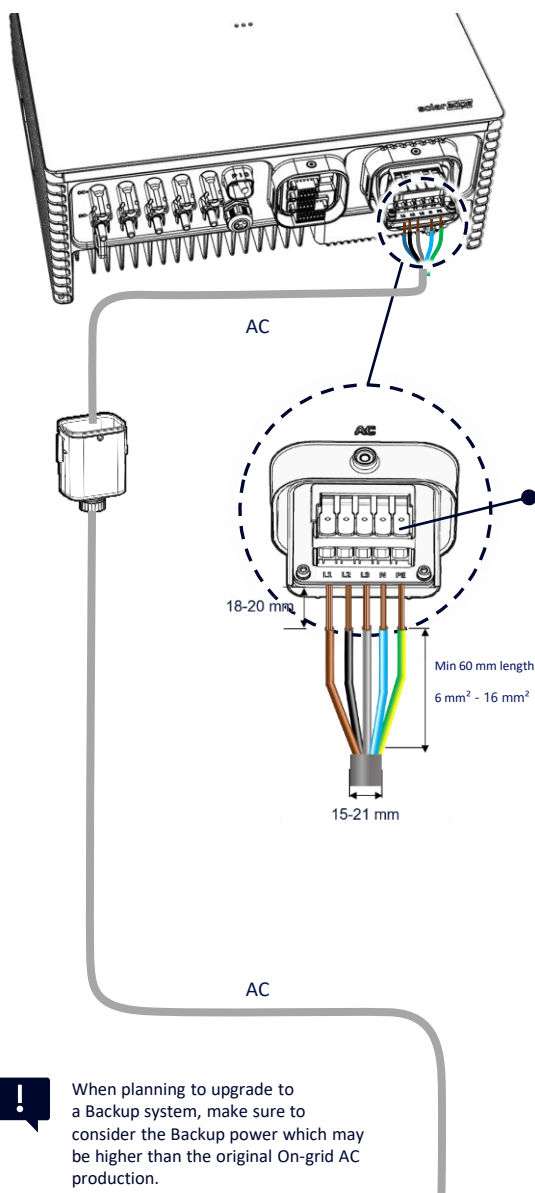
Before wiring:



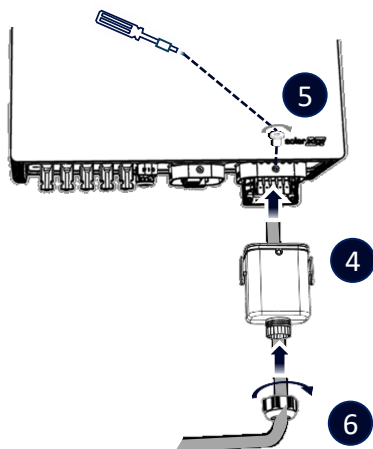
Wait at least 5 minutes before moving to Step 3.



# | Wiring the inverter AC



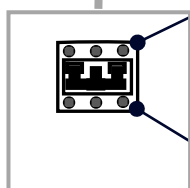
1. Lift lever
2. Insert wire
3. Lock lever
4. Check that the wire is securely connected



**!** 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.



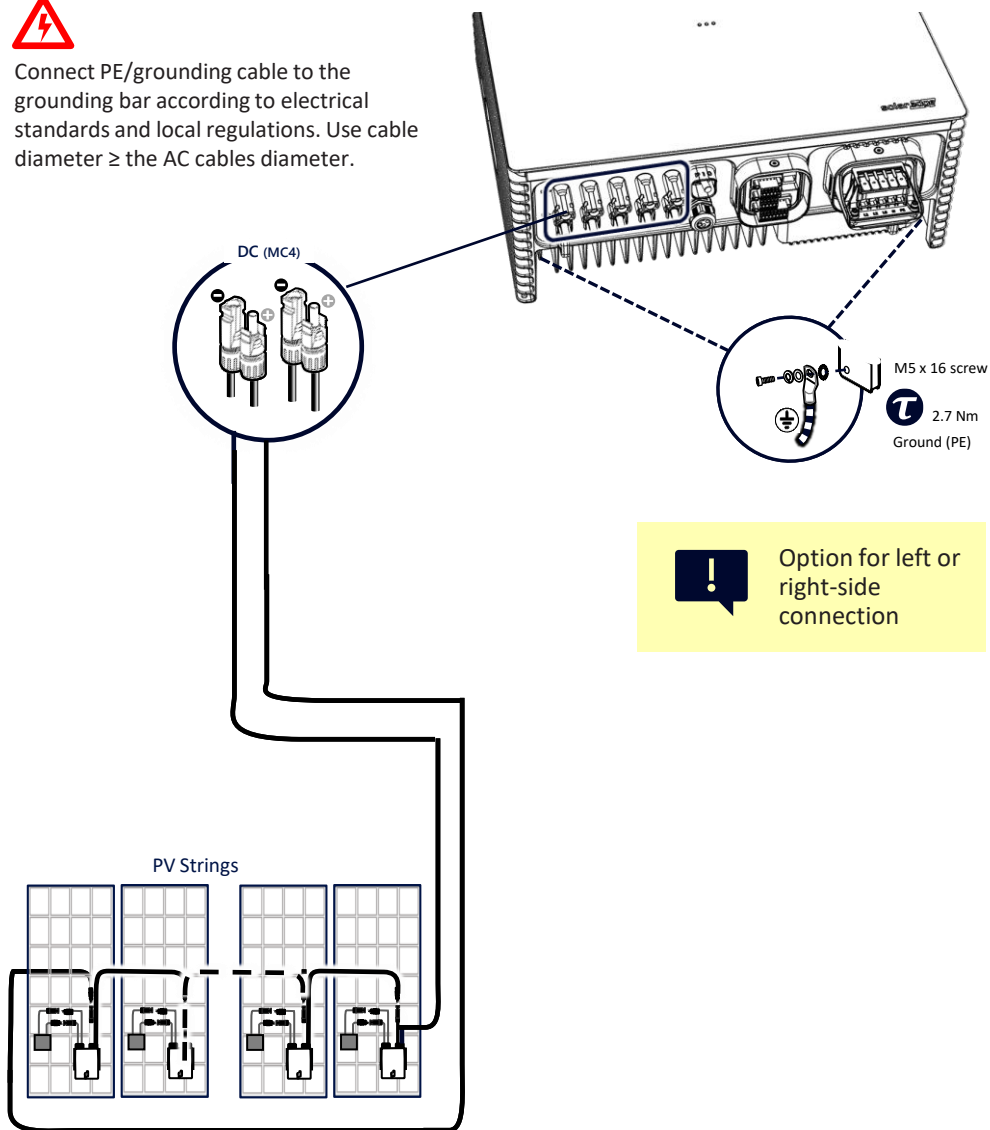
**!** The unit is compatible with an RCD Type A



## 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.



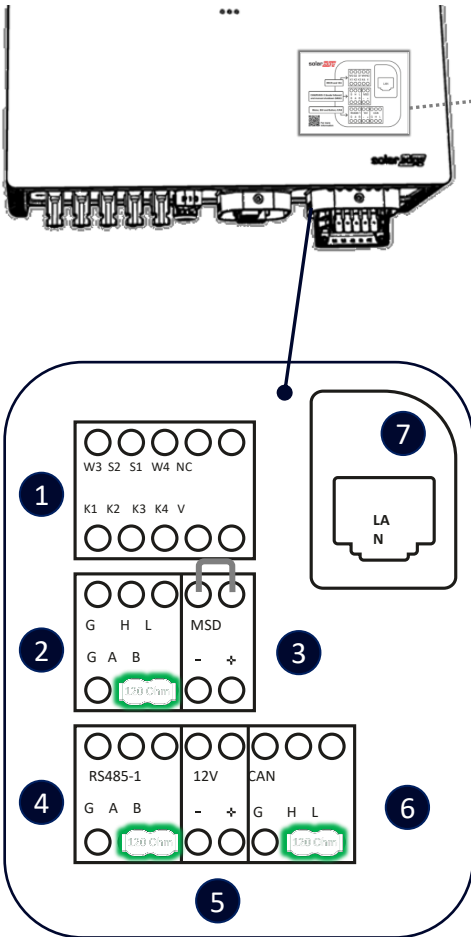
# Wiring the inverter communications



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



There are two different configurations for the inverter— one configuration has termination resistors on the communication connectors as shown below. The other configuration does not have these termination resistors. 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 resistor



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

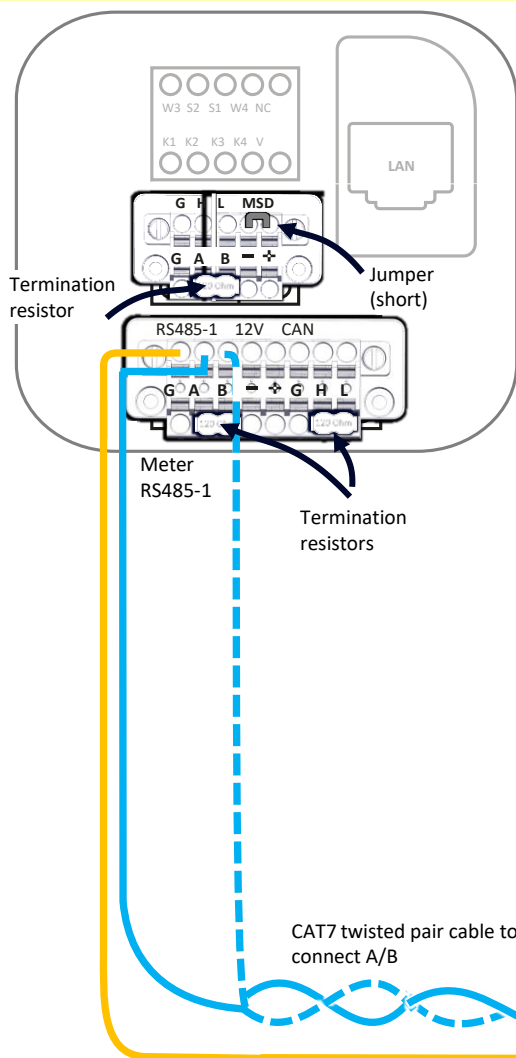


## Wiring the Meter RS485-1

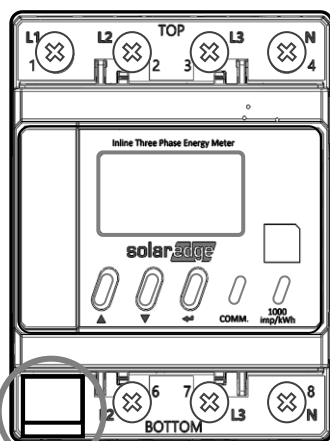
### ! Inverter RS485 termination settings:

- When connecting **either** a meter **OR** a BUI – set RS485 termination = **ON**. For inverters **with** external termination, leave the resistor 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 resistor 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.



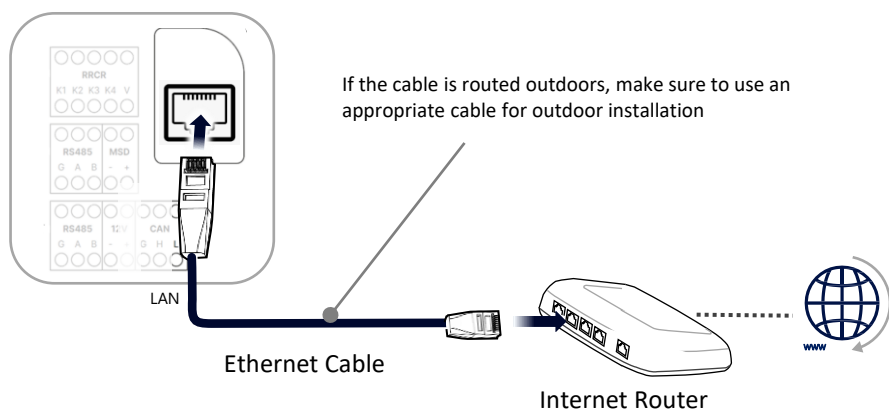
! The SolarEdge Inline meter supports SolarEdge Home Network. The Nexis Inverter does **NOT** support SolarEdge Home Network. It will be supported in the future.



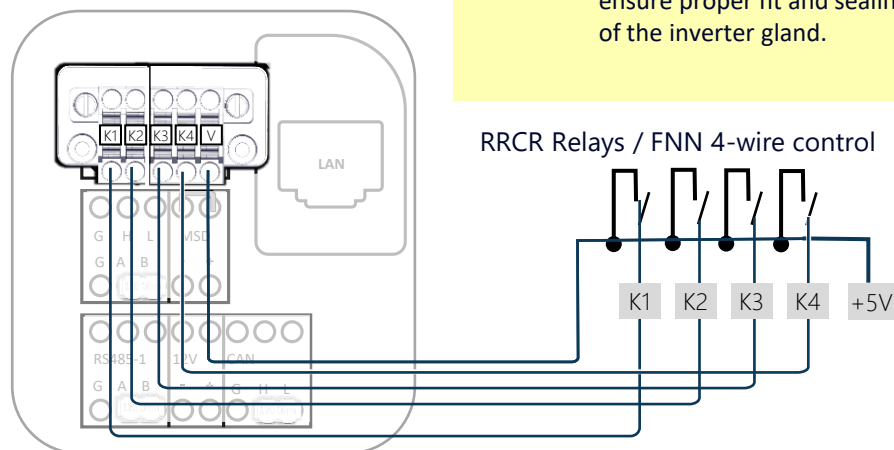
! Meter termination must **ALWAYS** be set to **ON**!



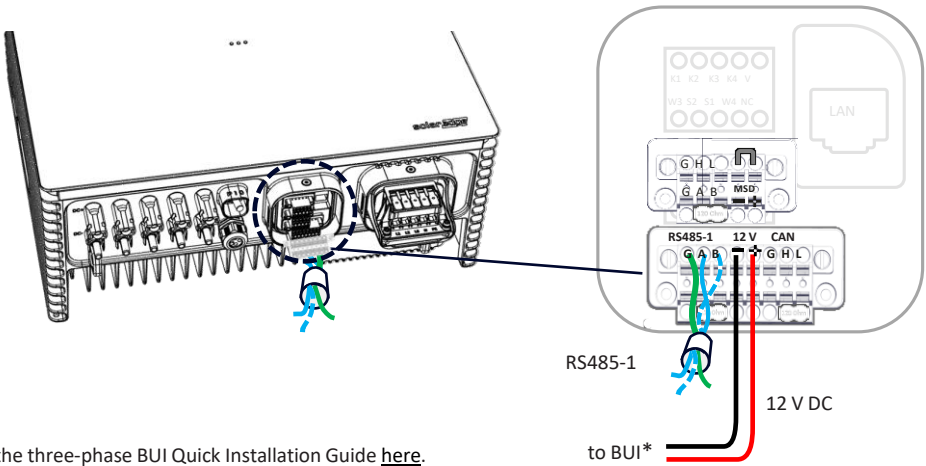
## Wiring the LAN



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

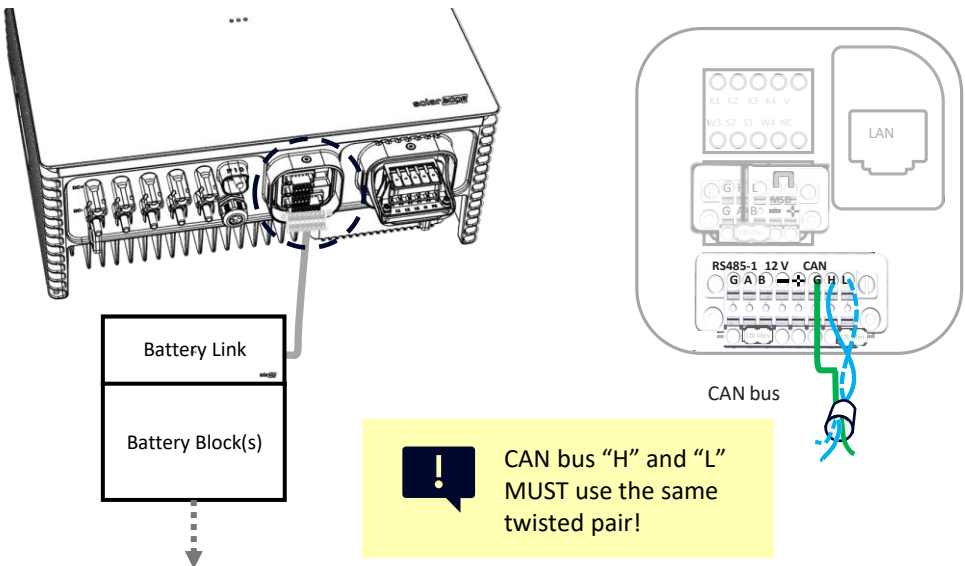


## Wiring communications and 12 V power for the BUI



\*See the three-phase BUI Quick Installation Guide [here](#).

## Wiring communications from the Battery to the Inverter

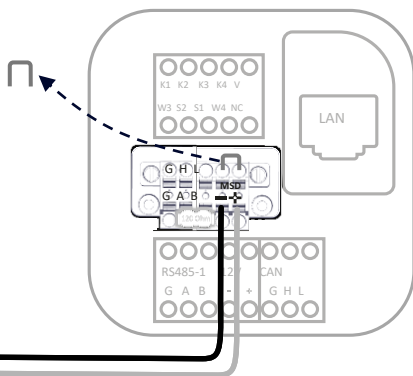
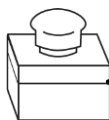


## Wiring a Manual Shutdown switch to the inverter for Backup operation



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

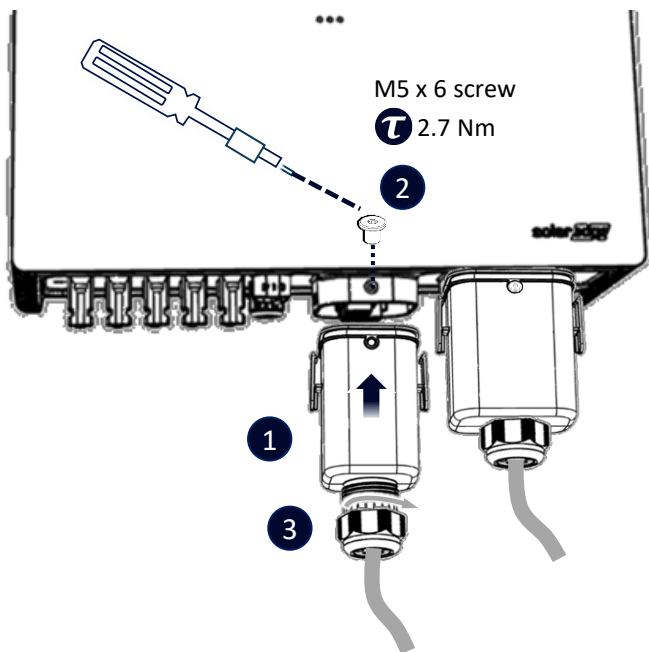


For the MSD switch application note, scan or click:



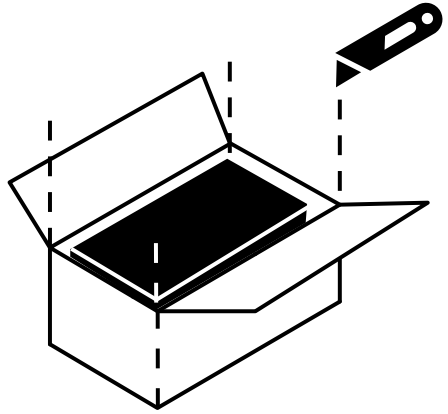
**WARNING!** Removing the MSD jumper without connecting a “normally closed” switch causes the inverter to stop producing.

## Refit the Comms cover cup

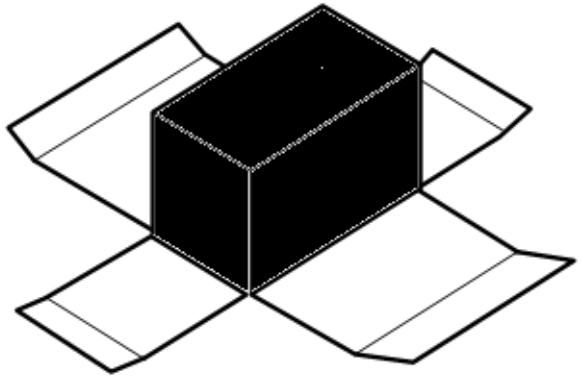


# Opening the Battery Block Package

- 1 Cut along the dashed lines



- 2 Use the package as your working surface



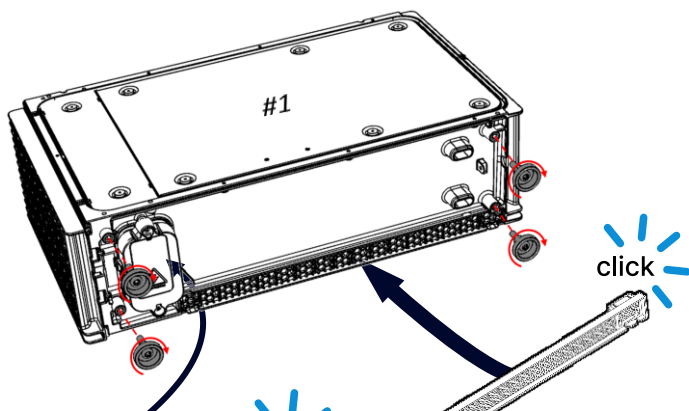
# Installing the Battery

## 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

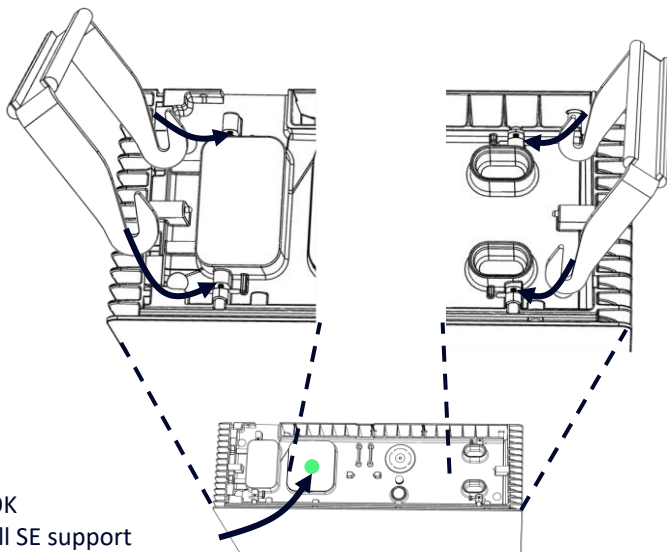


**Do not** remove the bottom cap cover

click

### 2 Attach the filter

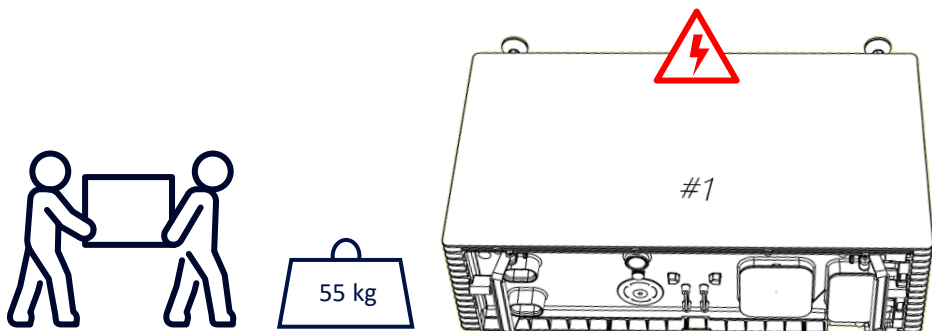
### 3 Attach the handles



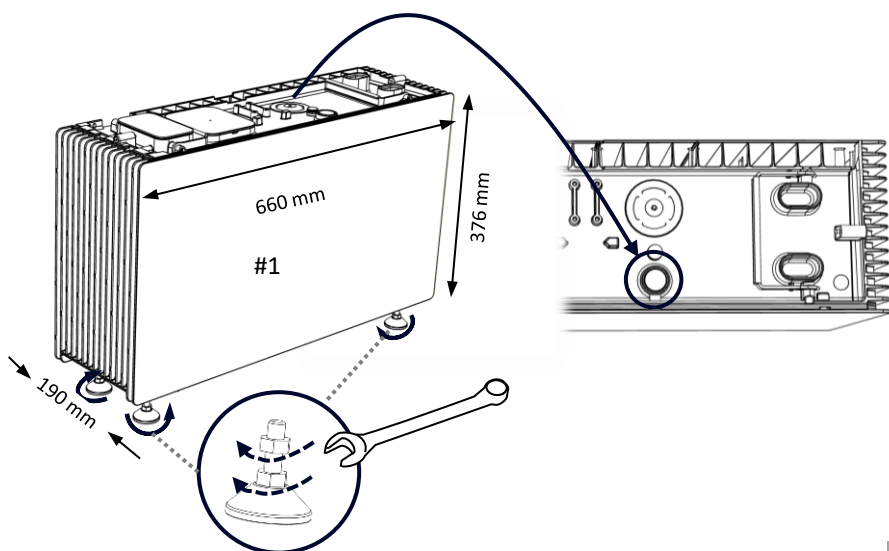
Blinking LED – all OK  
No LED – error! Call SE support



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

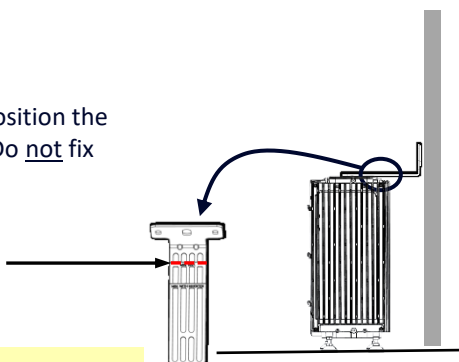


- 5 Level the first Battery Block by adjusting its feet - floor mount



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"):



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

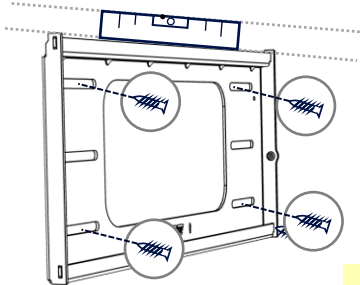


# Installing the Battery

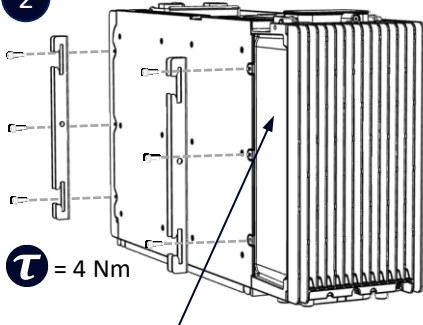
## Wall mount – Battery Block #1

1

Level the wall mount bracket and attach it to the wall



2

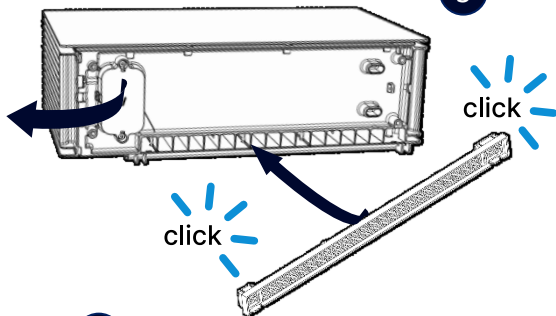


Take note of the OFFSET that these brackets cause to the position of the Battery Block when mounted on the wall.



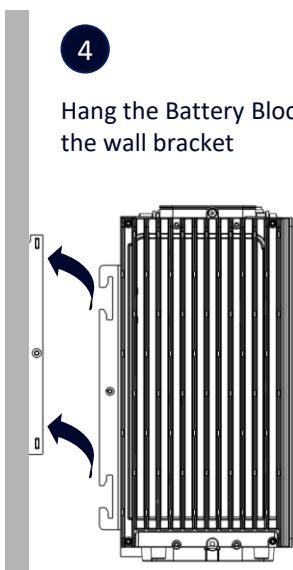
**Do not** remove the bottom cap cover

3



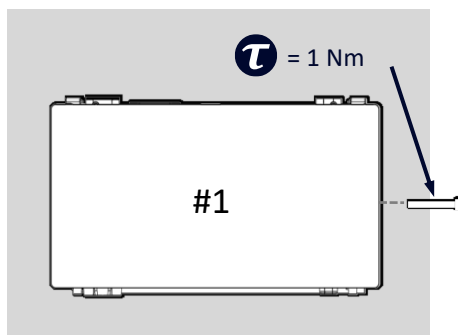
4

Hang the Battery Block on the wall bracket

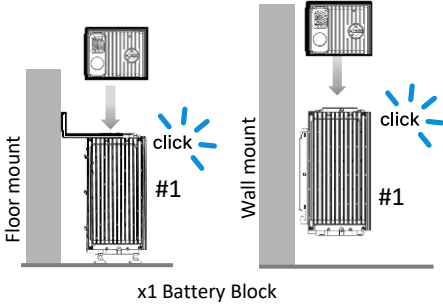


5

Fix the Battery Block to the wall bracket

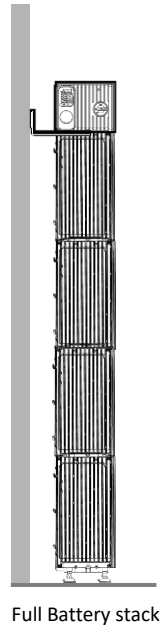
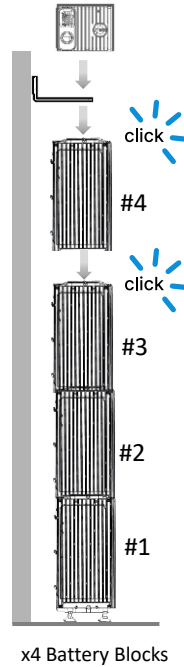
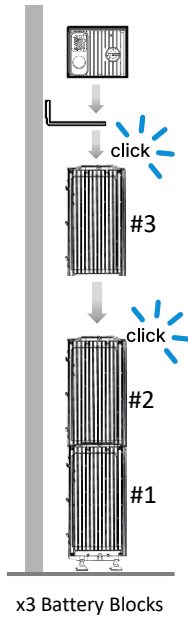
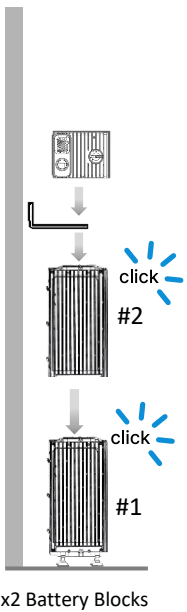


## Building one battery stack – 1,2,3,or 4 Battery Blocks with Battery Link



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

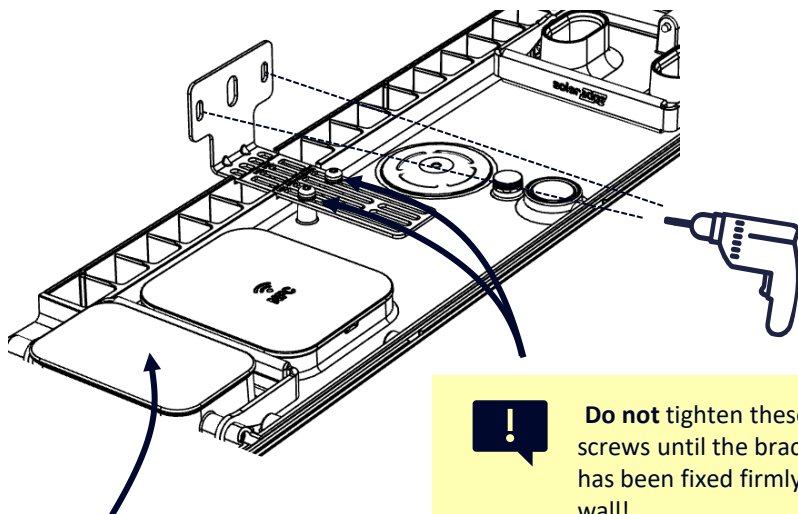
Same process for Floor or Wall mount



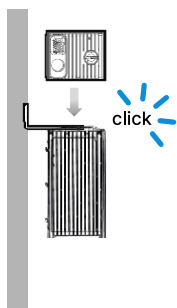
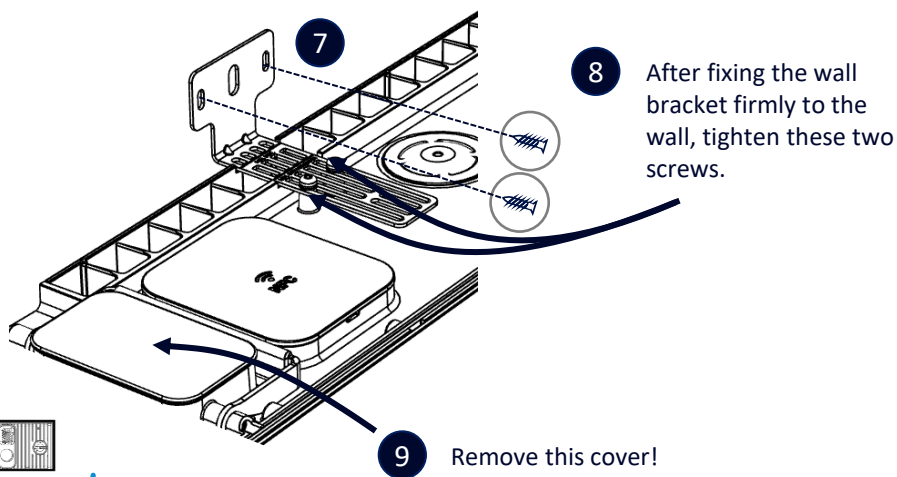
We recommend that the tilt bracket be installed either on top of the uppermost Battery Block OR on the one below the uppermost Block. It must NOT be installed on any of the lower-level Battery Blocks.



- 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!



! 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.

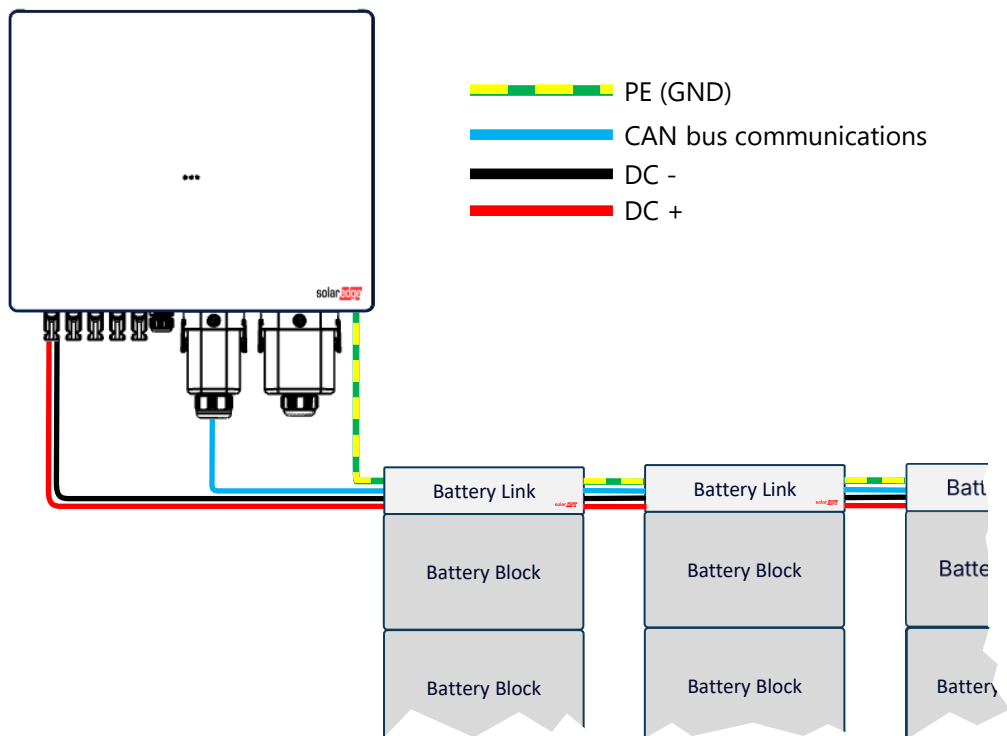
- 10 Attach the Battery Link to the top of the last Battery Block in the Stack.



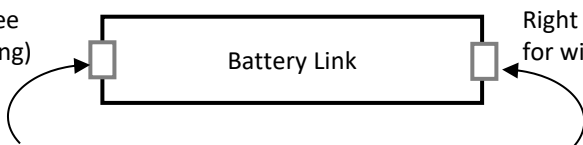
## Multi-battery configurations

### Side-by-side configuration – inverter at one end of battery stacks

SolarEdge Nexis 3ph Inverter



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



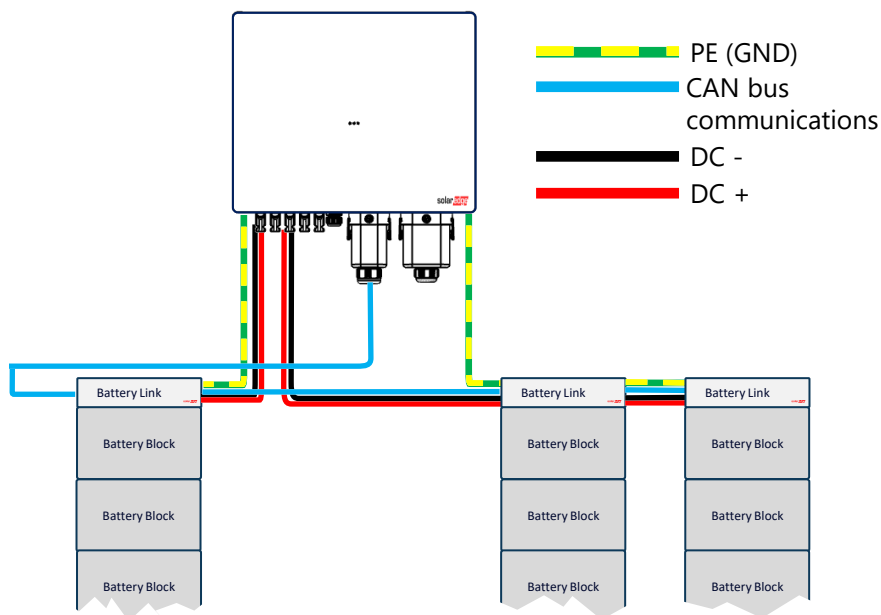
Right entry (see [here](#) for wiring)

Glands: 2 supplied in the inverter package. Additional glands can be purchased (PN: IAC-NX-50GLD-01)

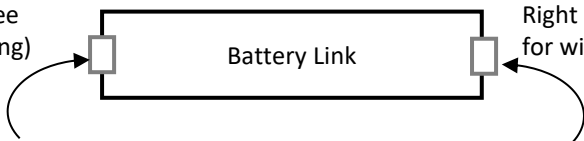


## Side-by-side configuration – inverter in-between battery stacks

SolarEdge Nexis 3ph Inverter



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



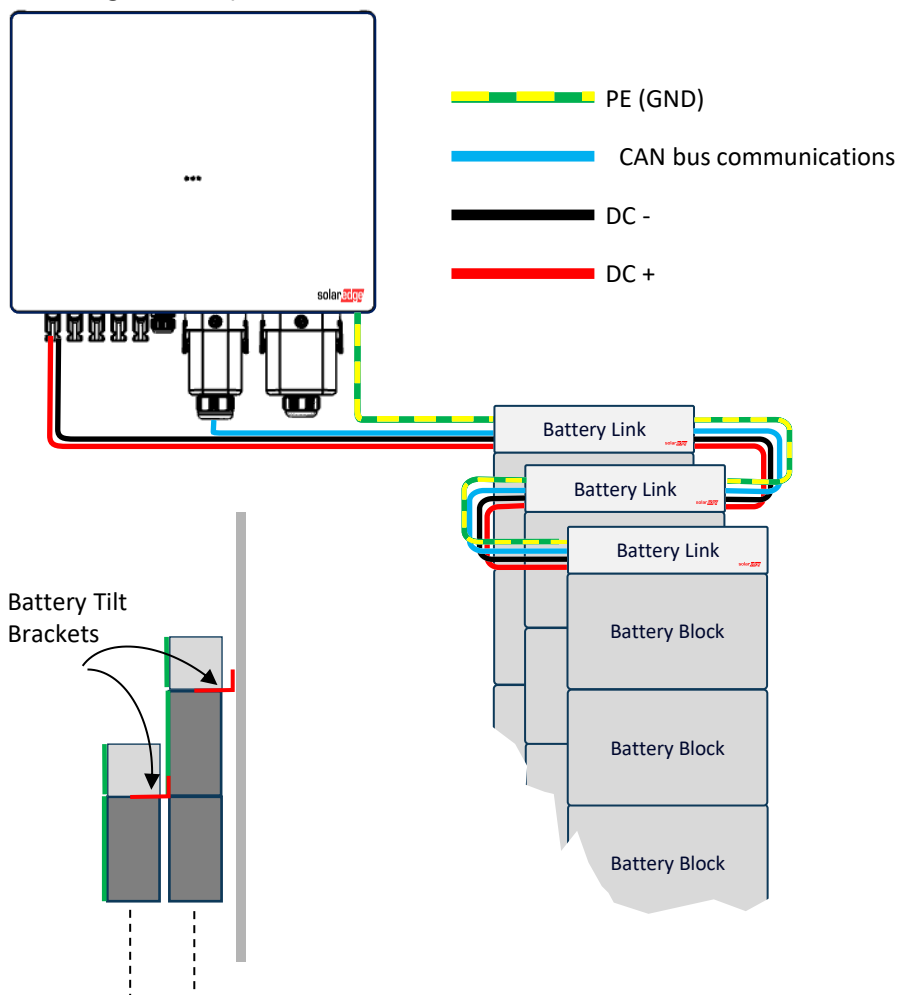
Right entry (see [here](#) for wiring)

Glands: 2 supplied in the inverter package. Additional glands can be purchased (PN: IAC-NX-50GLD-01)



## Front-to-back 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

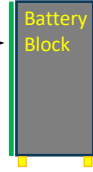
Supported stacking options:



Decorative  
cover



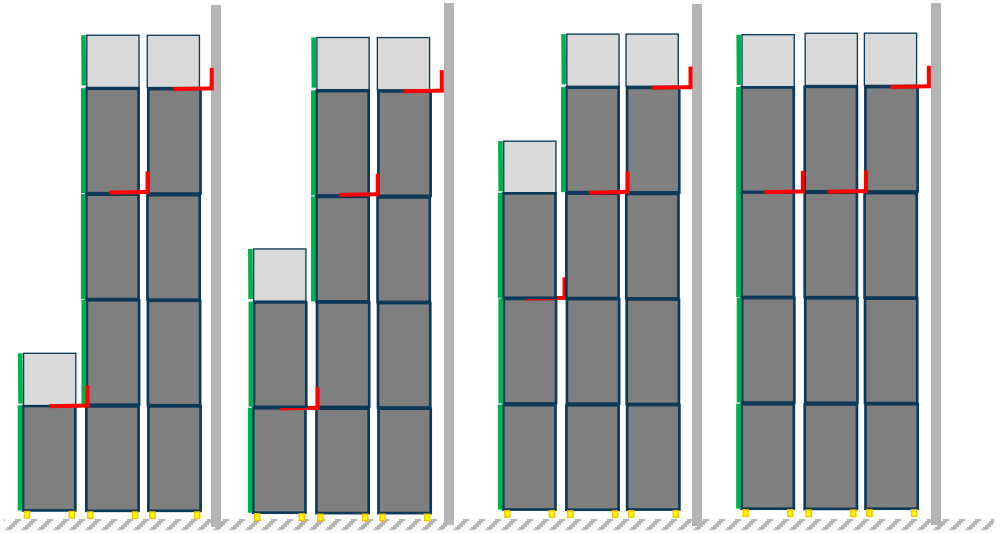
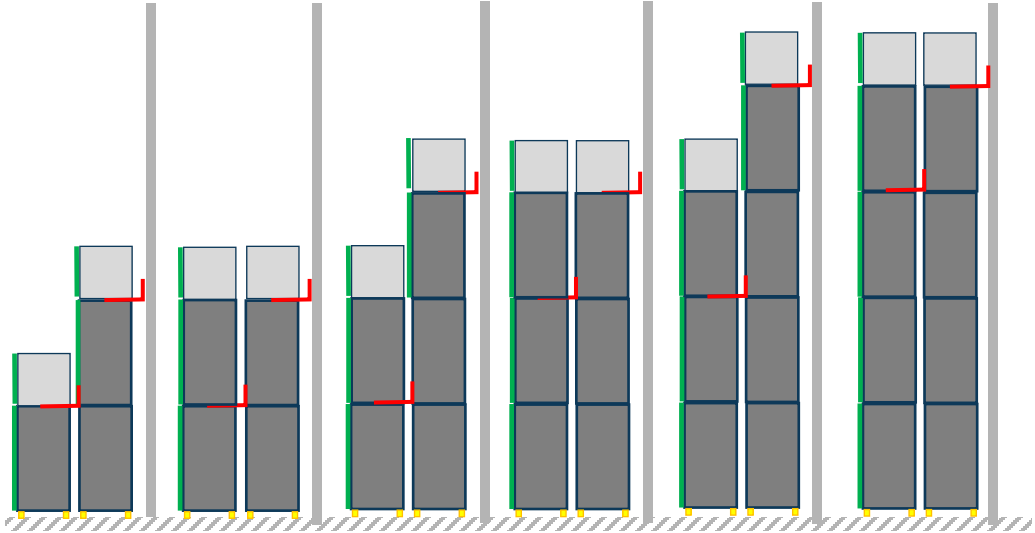
Decorative  
cover



Tilt  
Bracket



Battery  
foot



## Front-to-back configuration

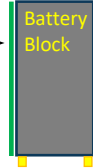
Non-supported stacking options:



Decorative cover

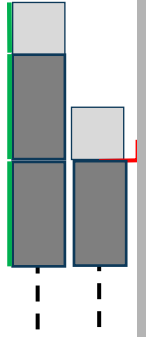
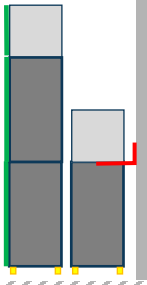
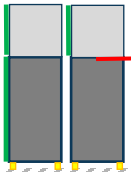


Decorative cover

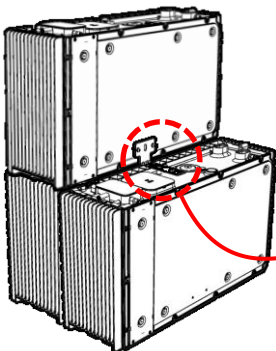
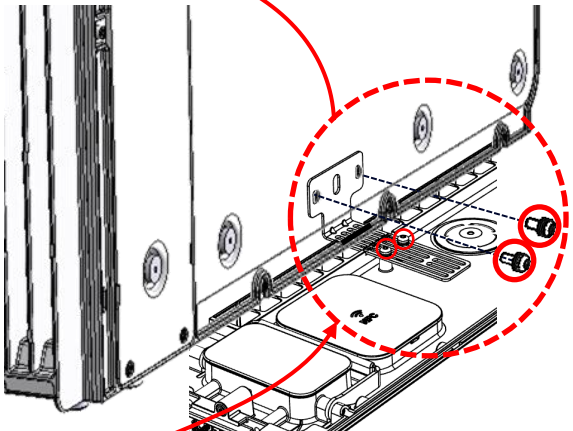
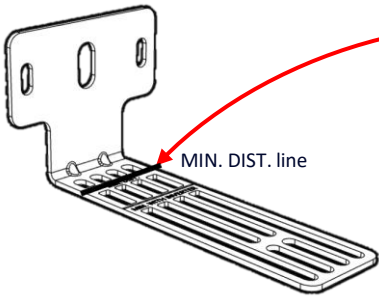


Battery Tilt Bracket

Battery foot



## Connecting Battery Stacks together



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

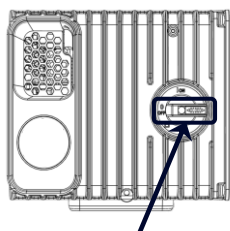


## Battery Link wiring

### Initial wiring steps

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

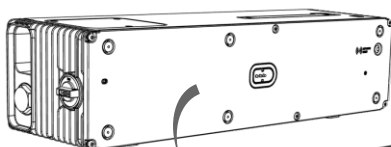
### Opening the Battery Link



1 OFF

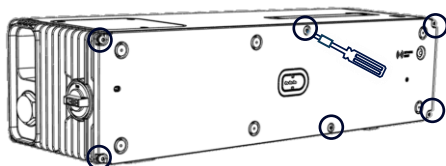


Wait 5 min before opening the Battery Link

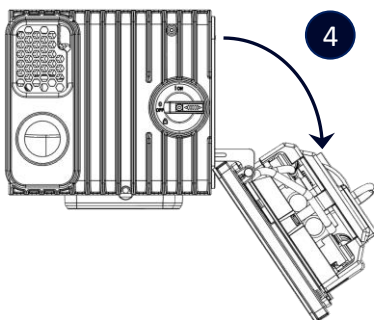


2

Decorative cover



3 Release captive screws x6 (T25)



4



## Wiring the Battery Link – left entry

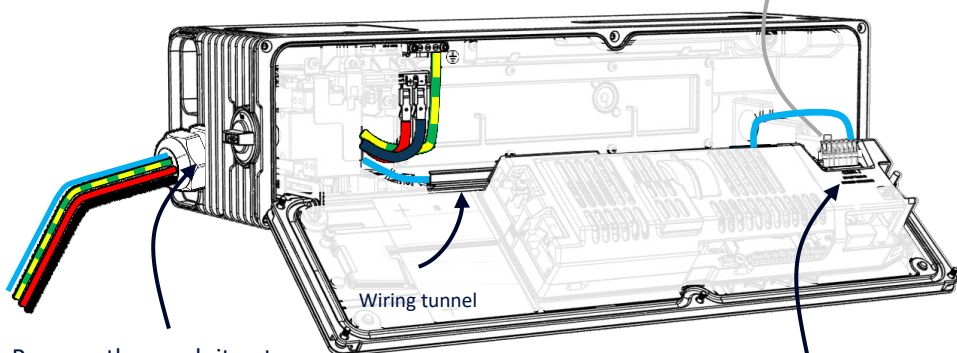


DC and GND wire stripping lengths:

 19 mm

 12 mm

Ferrules are NOT mandatory.

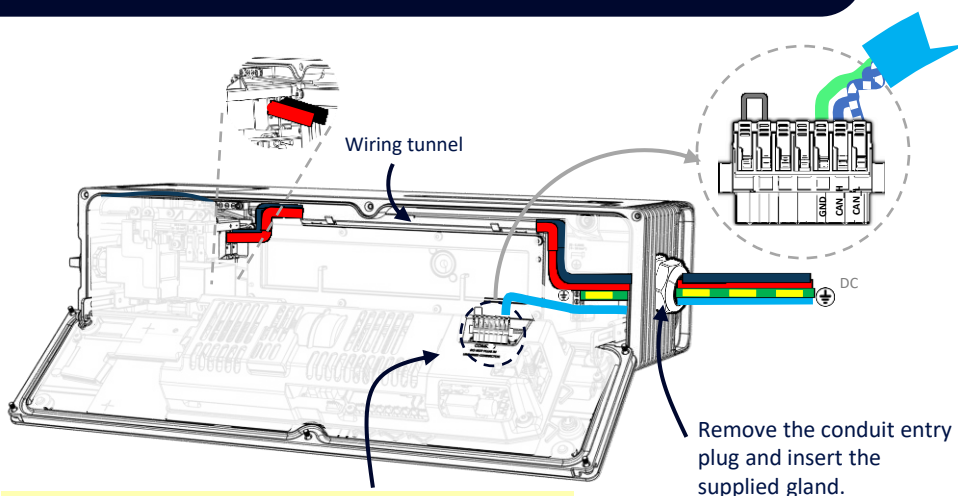


Remove the conduit entry plug and insert the supplied gland.



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!



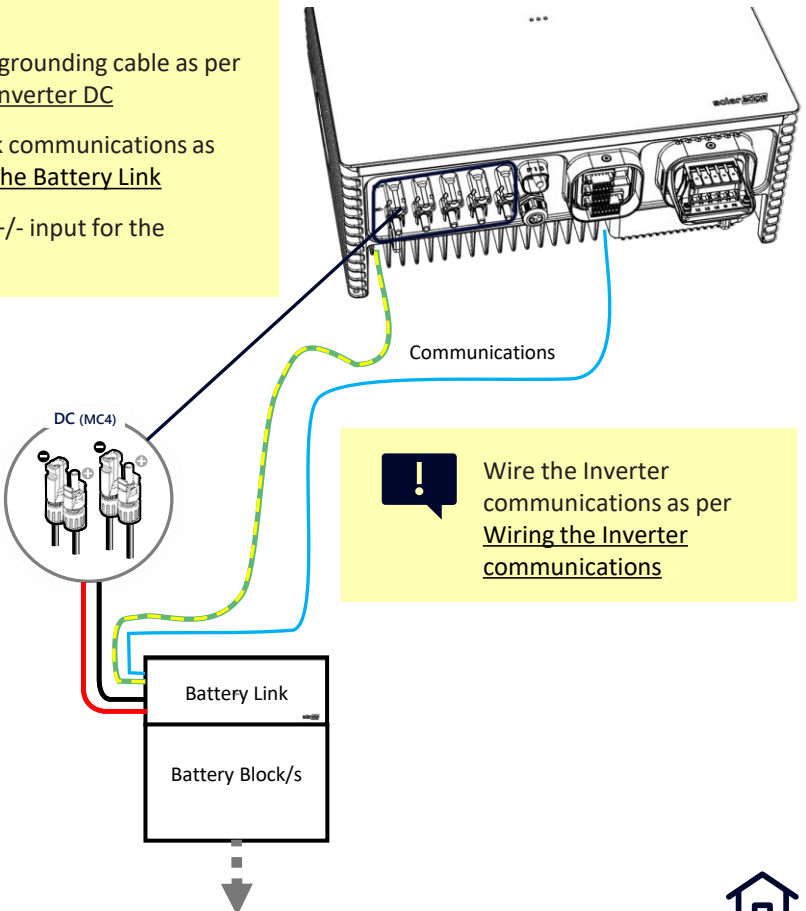
## GND bus bar screw tightening torque:

| Wire gauge (mm <sup>2</sup> ) | Torque (Nm) |
|-------------------------------|-------------|
| 16 to 25                      | 5           |
| 10                            | 4,5         |
| 2,5 to 6                      | 4           |

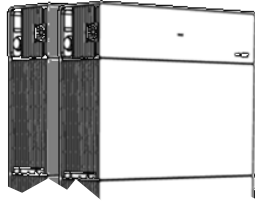
## Wiring DC and communications from the Battery to the Inverter



- 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



## Wiring the Battery Links – multi-battery (stacks same height)

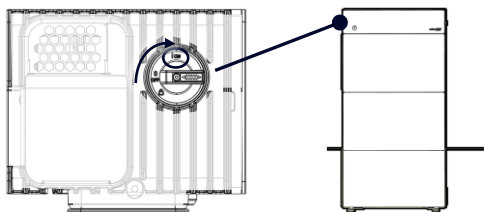


1. Build up the complete rear stack and attach it to the wall using the Tilt Bracket.
2. Open the rear Battery Link. See [Opening the Battery Link](#).
3. Measure the wires to be routed to the inverter from the rear stack.
4. Measure the wires to be routed to the link in the next stack. **Make sure to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

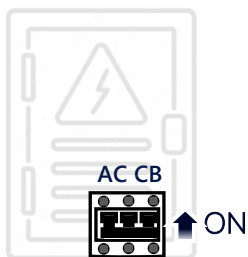


## | Power on the system

### 1 Battery Link



### 2 Electrical cabinet

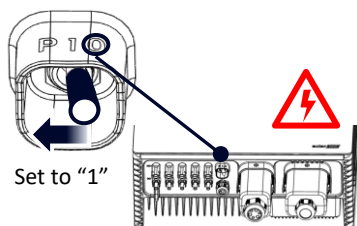


### 3 BUI



Set to "1"

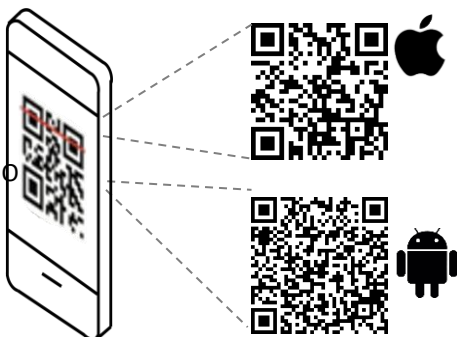
### 4 Inverter



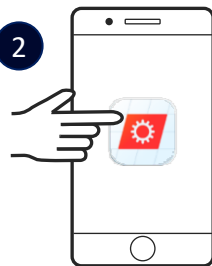
## | Commissioning the inverter

### 1

Scan for  
SolarEdge GO



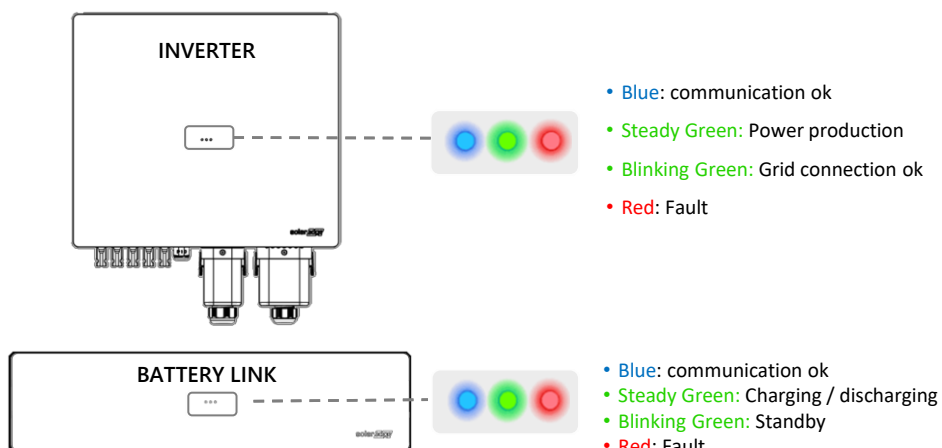
### 2



Run SolarEdge Go and  
follow the instructions on  
the screen



# | Led indicators



For more details, see [SolarEdge LEDs](#).

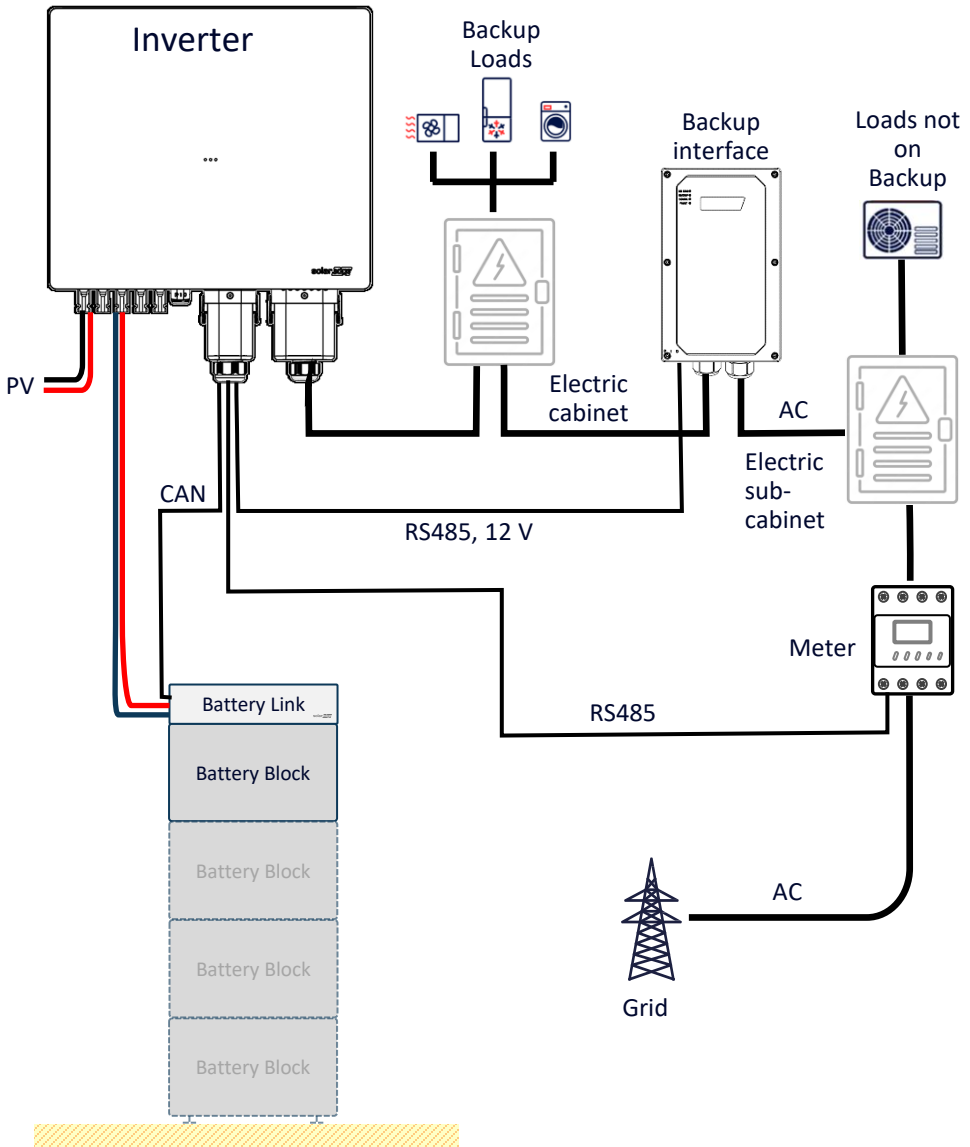
## Backup interface and meter

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 resistor at the COMMS terminals at the bottom of the inverter.

**METER – ON.**

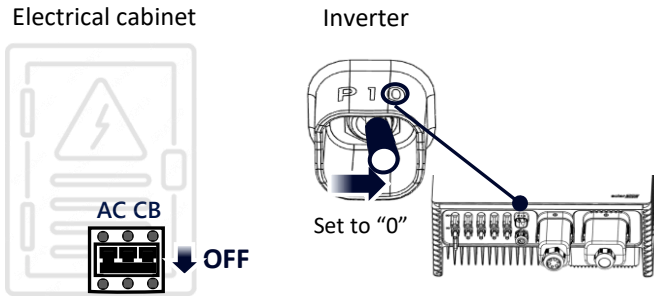
**BUI –** termination is always **ON** and cannot be changed.



## Appendix 2

### Setting inverter termination

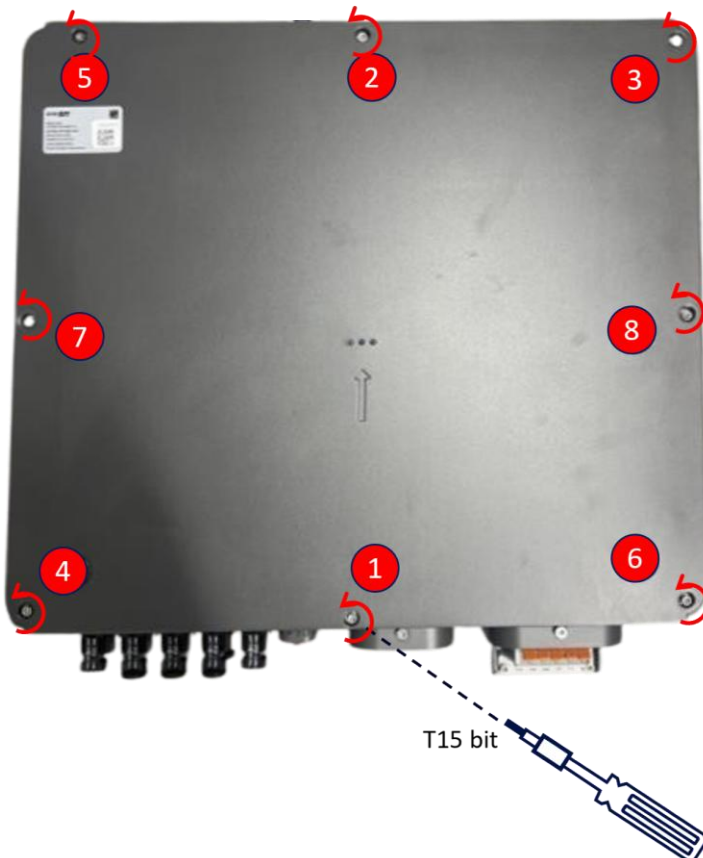
#### 1. Power OFF



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

#### 2. Remove the inverter decorative cover.

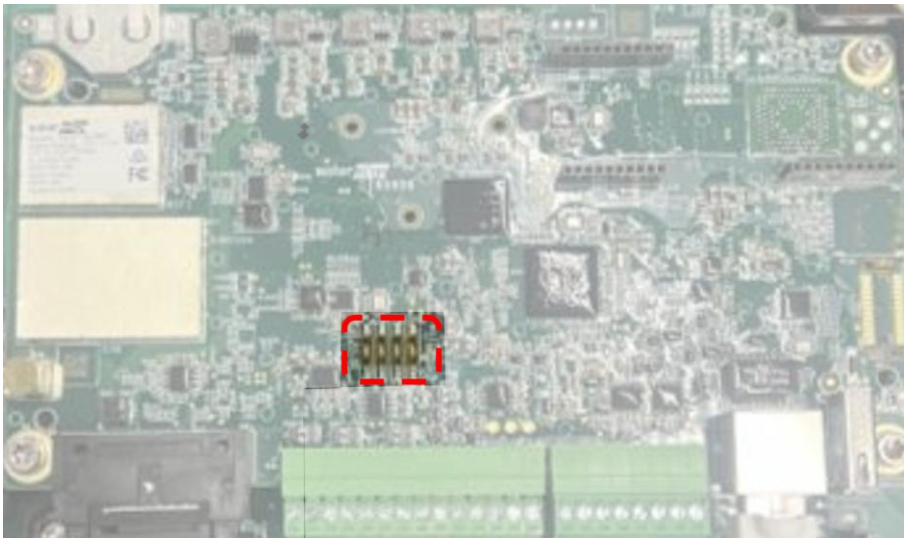
#### 3. Open inverter – ensure order of opening captive screws



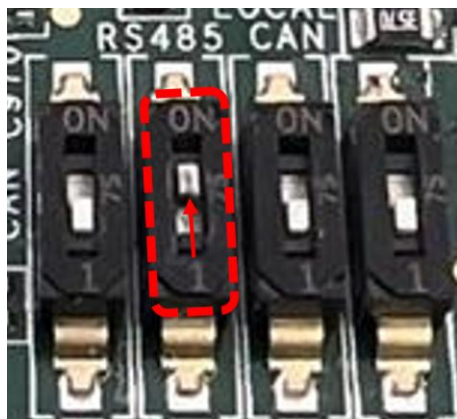
4. Identify the communications board



5. Identify the DIP switches



6. Set the RS485 DIP switch “ON”



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



8. Refit the inverter decorative cover.

