

Quick Installation Guide

# SolarEdge Nexis Solution 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. Commissioning and indicators



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



MAN-01-01400-1.0

**SolarEdge.com**

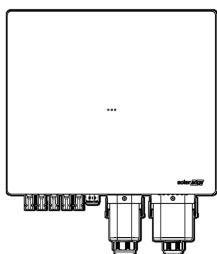
SolarEdge Technologies GmbH, Werner-Eckert-Str. 6, 81829 Munich, Germany  
Subject to change without notice.

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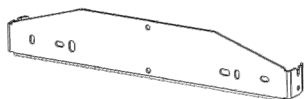
V01

# What's in Each Box

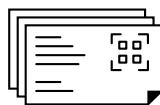
## Box 1- Inverter 3ph



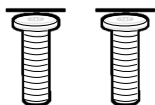
SolarEdge Nexus  
Inverter 3ph



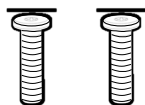
Inverter wall  
bracket



Power rating  
labels x6



Screws  
M5 x2

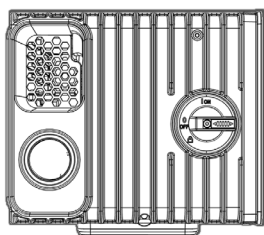


Screws  
M4 x2



# What's in Each Box

## Box 2- Battery Link



Battery Link

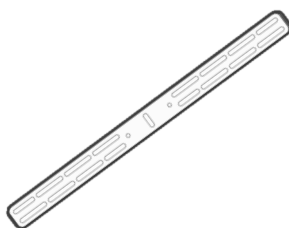


x4

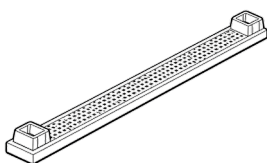
Battery Block foot



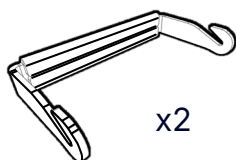
Wall bracket



Wall bracket extension  
(for use in NAM only)

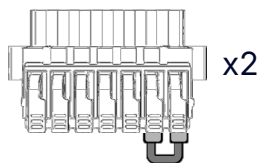


Battery Block filter



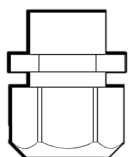
x2

Battery Block handle



x2

Communications connector



Cable gland  
(for use in EU only)



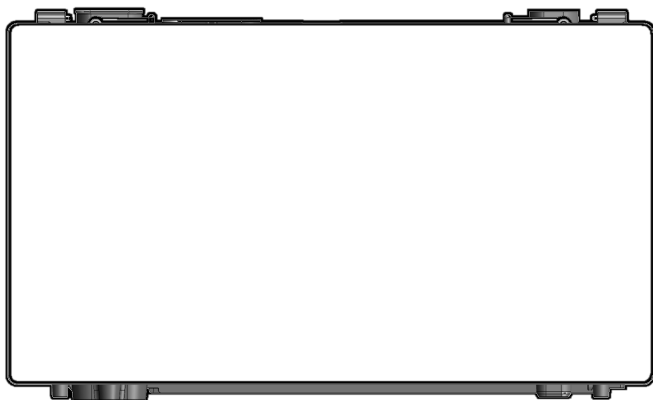
x4

Screws  
M5X12



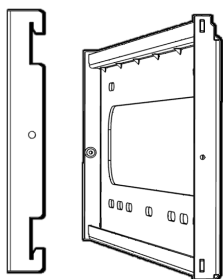
# What's in Each Box

## Box 3 - Battery Block



SolarEdge Nexis  
Battery Block

Sold separately!

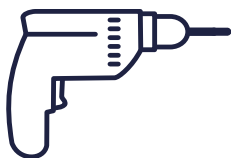


SolarEdge Nexis  
Wall Mount Bracket

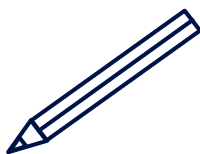


# Tools Needed:

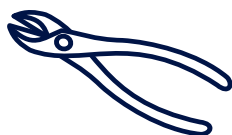
## What You Need for the Installation



Drill



Pencil



Wire cutter



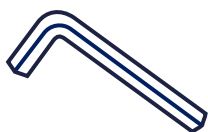
Wire Stripper



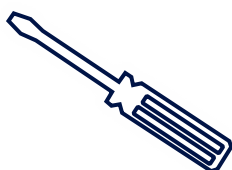
RJ45 crimping tool



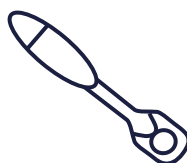
Hammer



M4, M5  
Allen keys



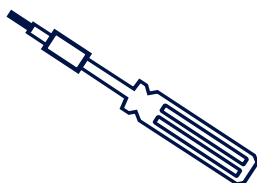
Watchmaker  
flat screwdriver



Torque wrench



Level



Adjustable Torque  
Torx Screwdriver set

x4

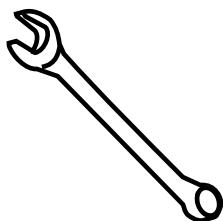


x4



Mounting screws  
and wall plugs





½" wrench



CAT7 cable

## 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.



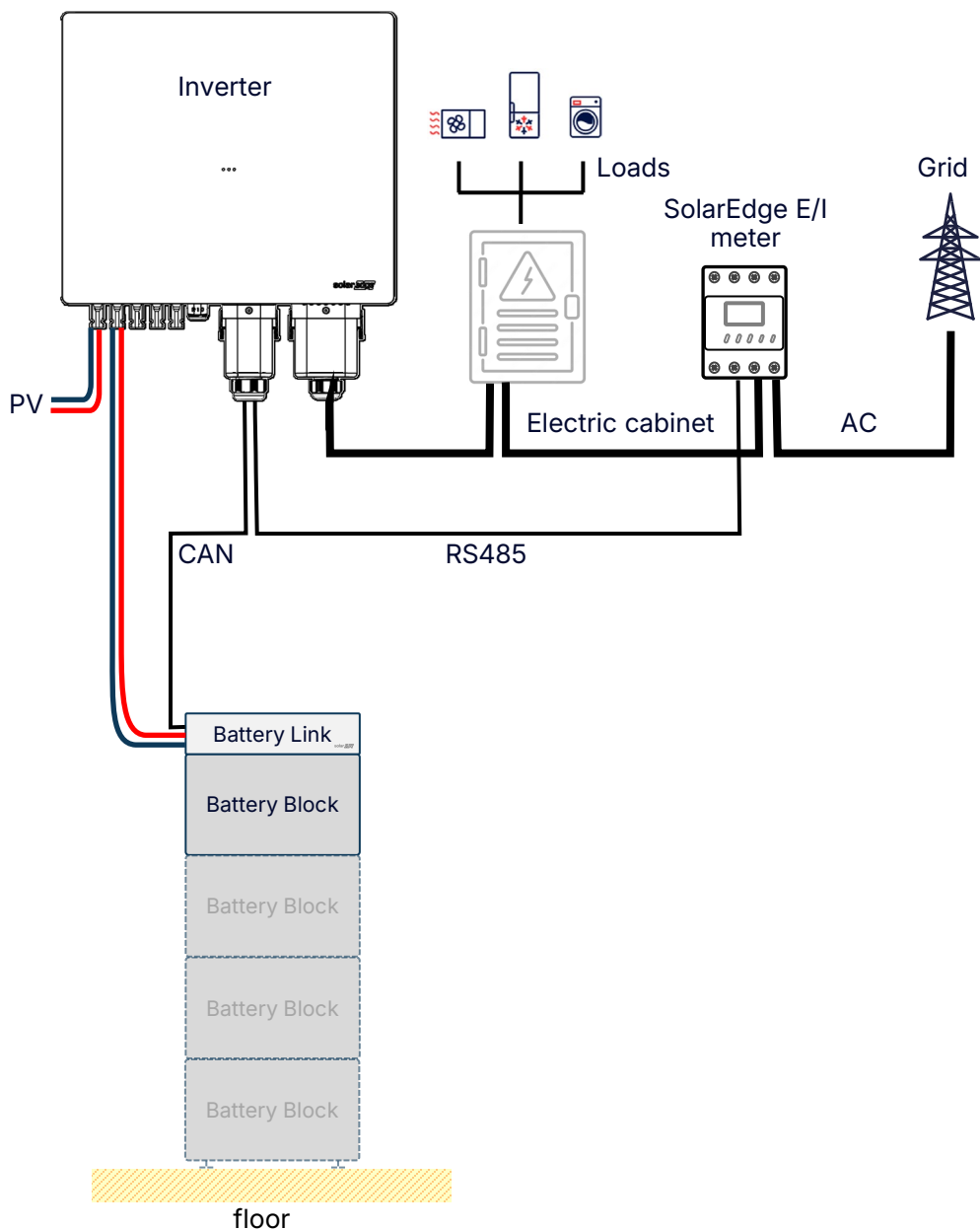
**CAUTION!**

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

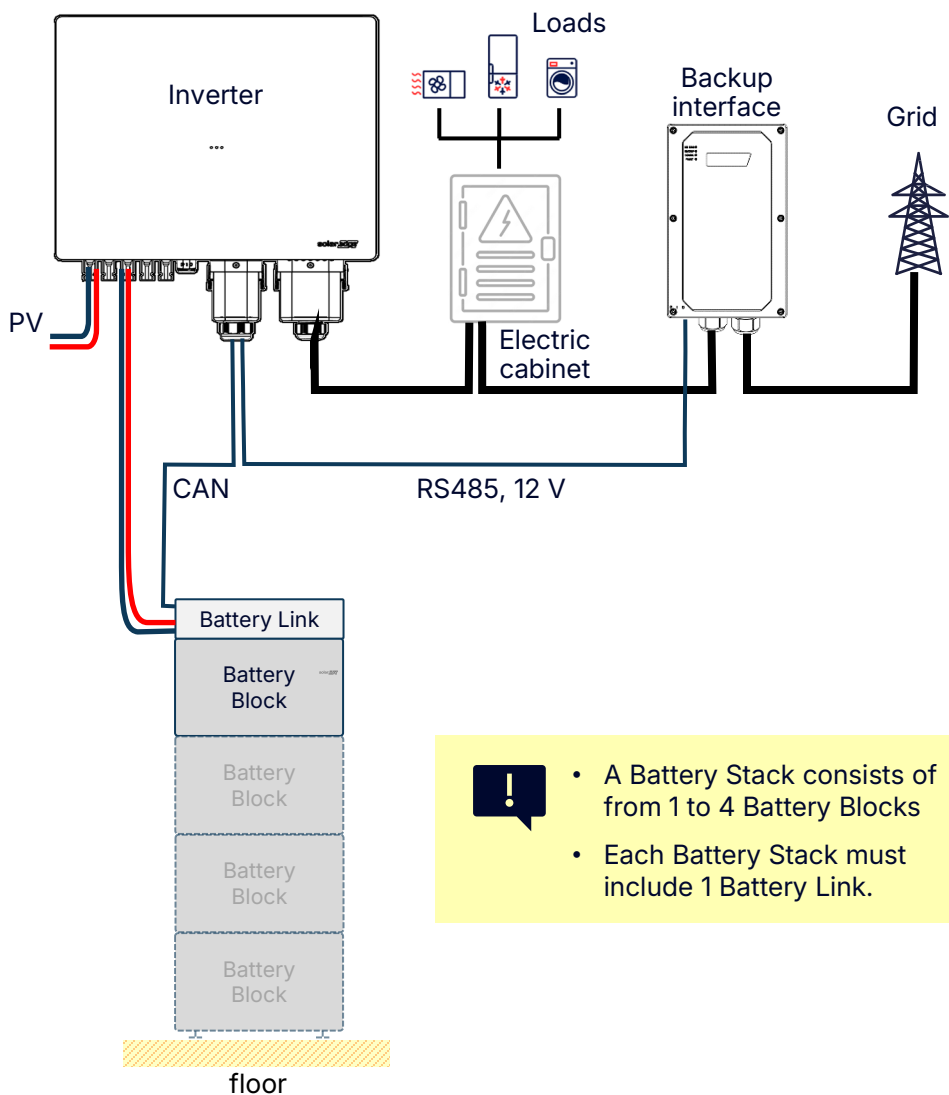


# Before you start

## System Overview

### Full Home Backup

For partial Home Backup see [Appendix 1](#)



- A Battery Stack consists of from 1 to 4 Battery Blocks
- Each Battery Stack must include 1 Battery Link.





# | Let's get started!



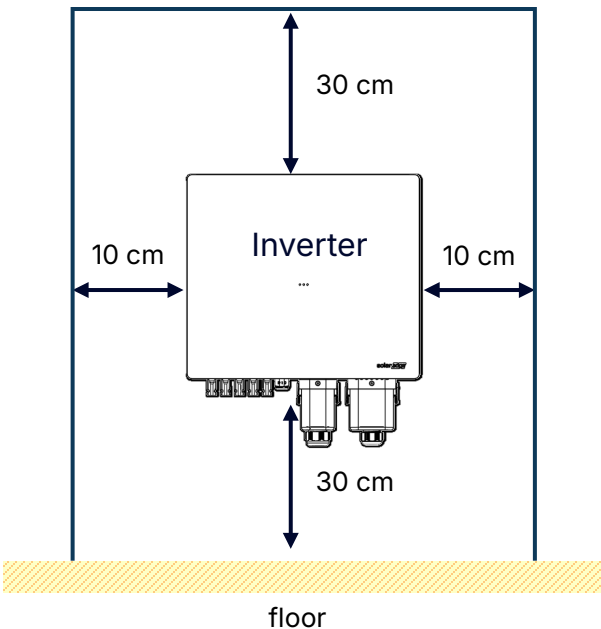
1. First, install the Inverter.
2. Next, install the Battery.
3. Finally, when applicable, install the meter and/or the Backup Interface (BUI).
4. For a site with multiple inverters, check [here](#).

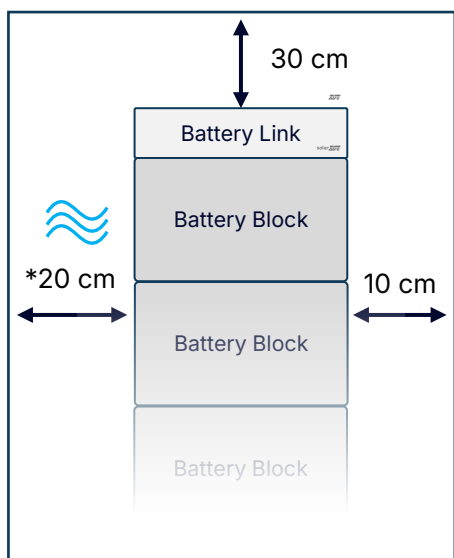
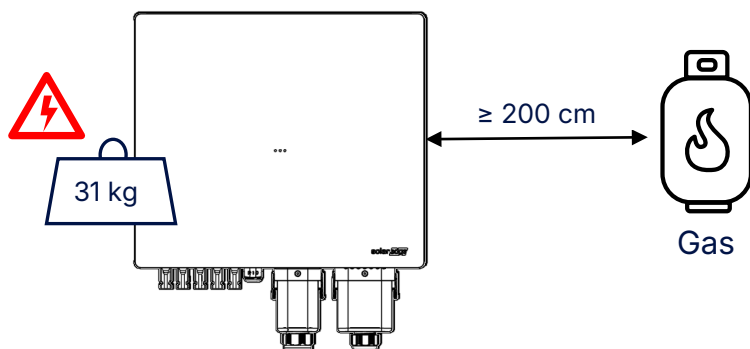
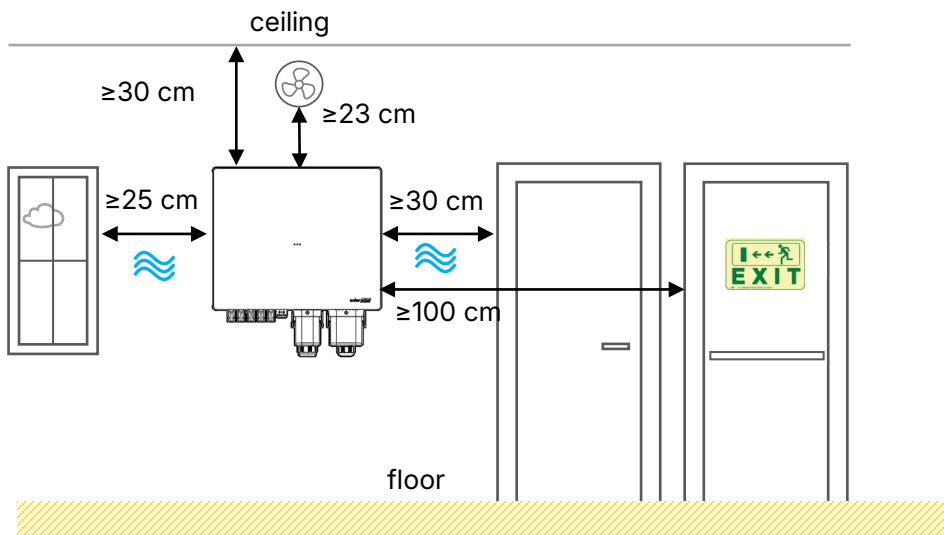
## A. Planning

**Indoor**  
Room size  
 $\geq 60 \text{ m}^3$



**Outdoor**

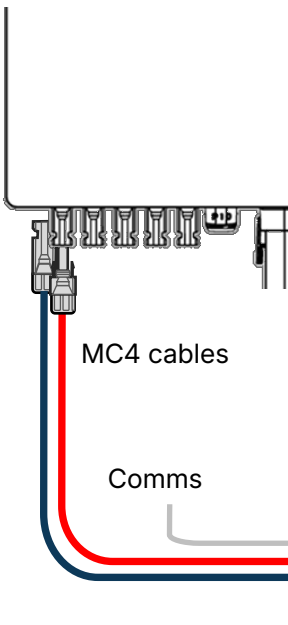
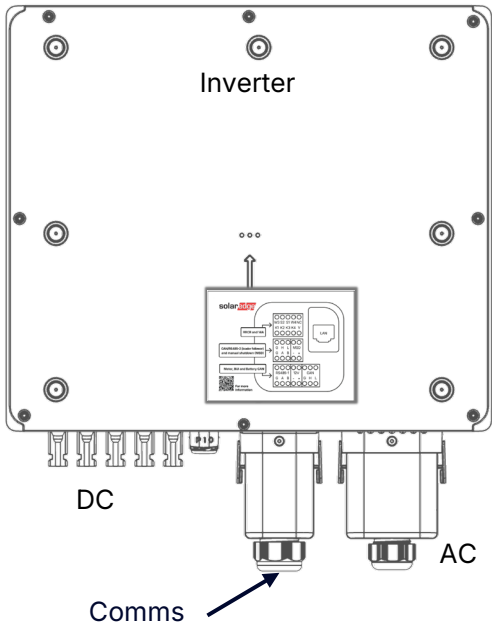




- \*10 cm is allowed, but 20 cm is recommended for servicing the Battery Block/s.
- Minimum distance to window or door is 30 cm
- Assuming a shielded CAT7 comms cable and at least 6 mm<sup>2</sup> DC cables, the maximum distance between the Inverter and the furthest Battery Stack is 50 m.



## 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 50 m when using 6 mm<sup>2</sup> DC cable and shielded CAT7.

Capped quick-connect to Battery Block



## 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



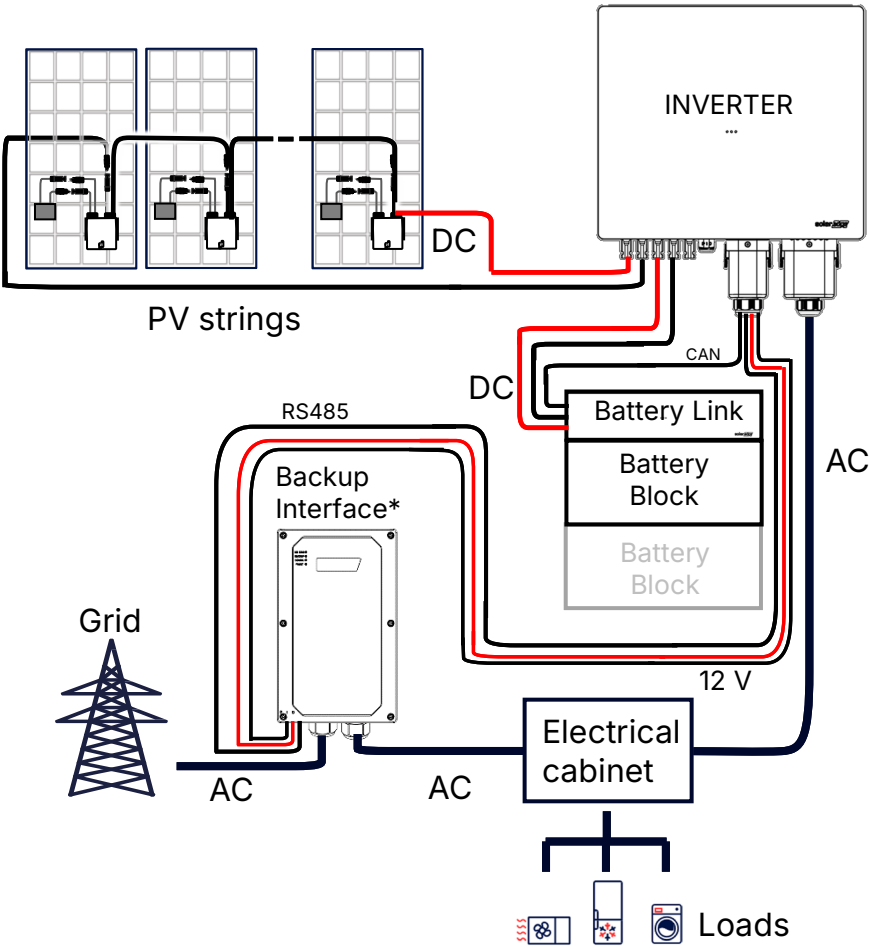
#### **Auto software updates**

\* 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.



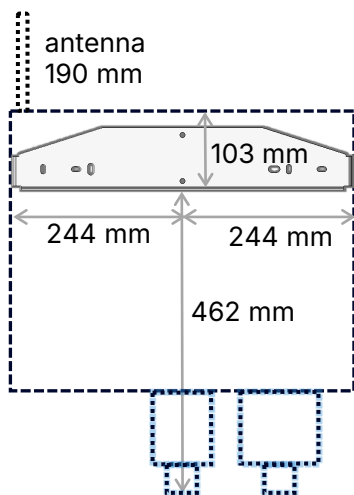
# D. System Configuration



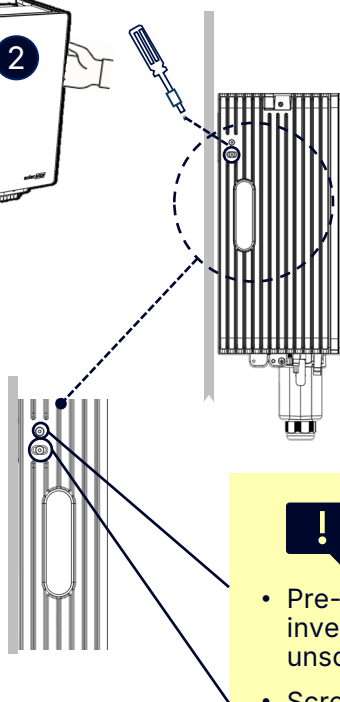
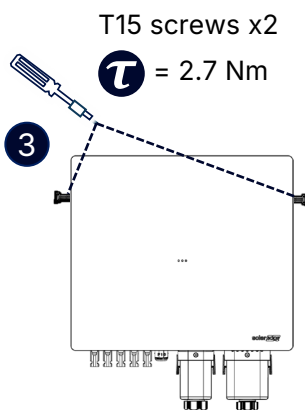
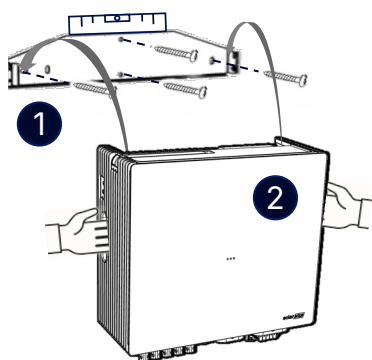
\*For the Quick Installation Guide for the Backup Interface, click [here](#).



# 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.



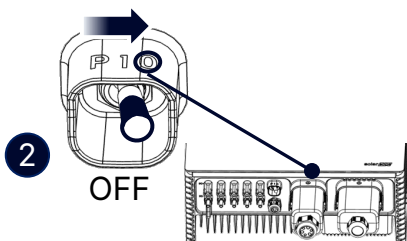
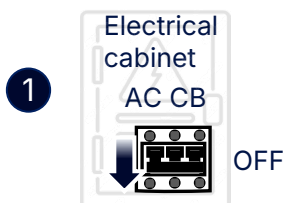
- Pre-assembled pins to hang the inverter on the bracket. Do NOT unscrew!
- Screws x2 used as to secure the inverter to the bracket



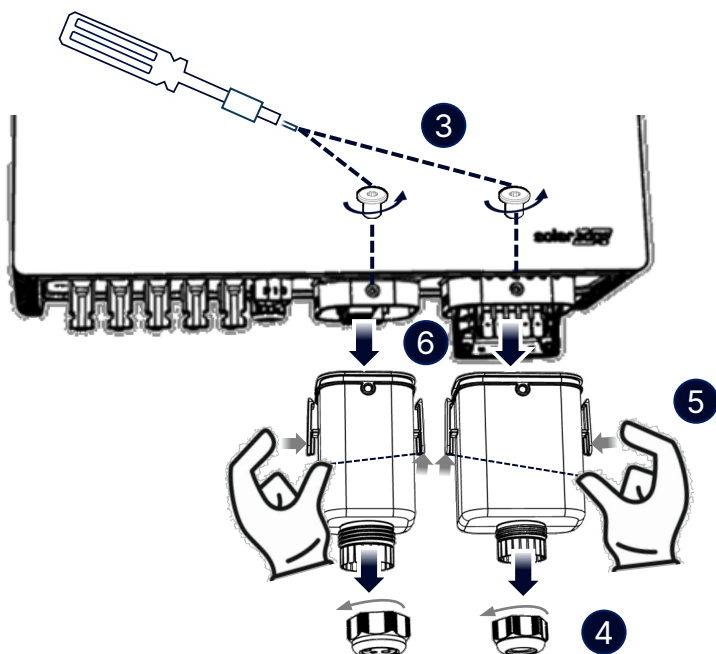
## | Wiring the inverter



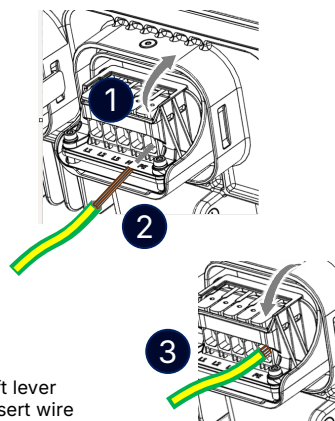
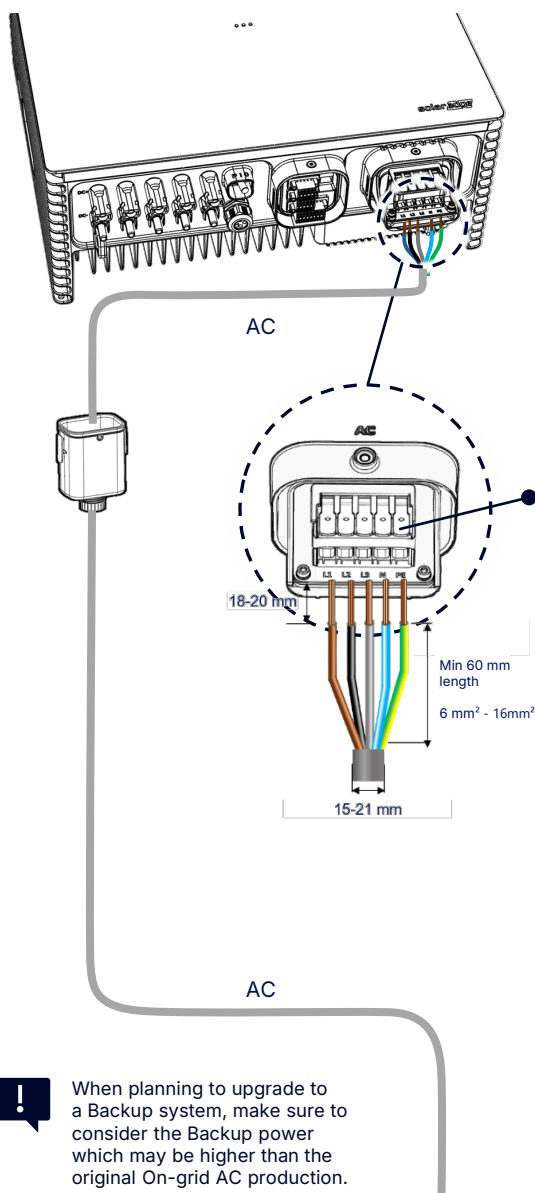
Before wiring:



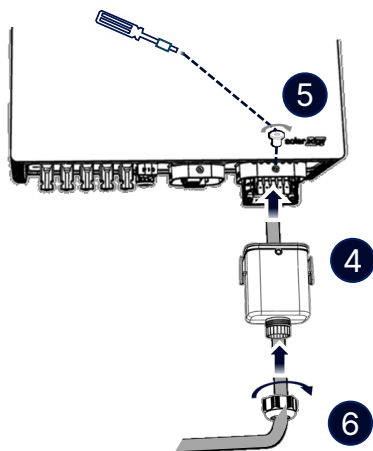
Wait at least 5 minutes before moving to Step 3.



# | Wiring the inverter AC

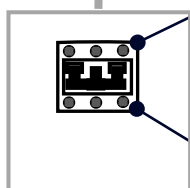


1. Lift lever
2. Insert wire
3. Lock lever
4. Check that the wire is securely connected



**!** 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            |



Electrical cabinet

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

Grid



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

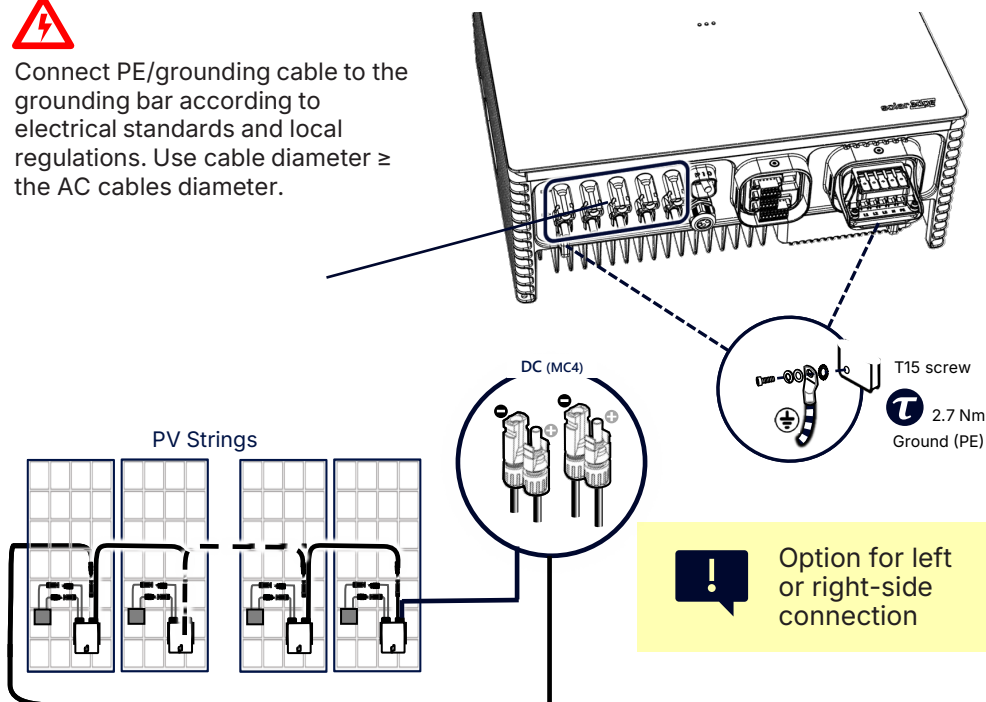




## Wiring the inverter DC



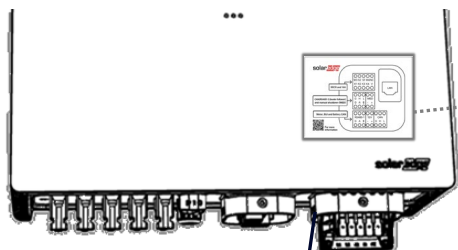
Connect PE/grounding cable to the grounding bar according to electrical standards and local regulations. Use cable diameter  $\geq$  the AC cables diameter.



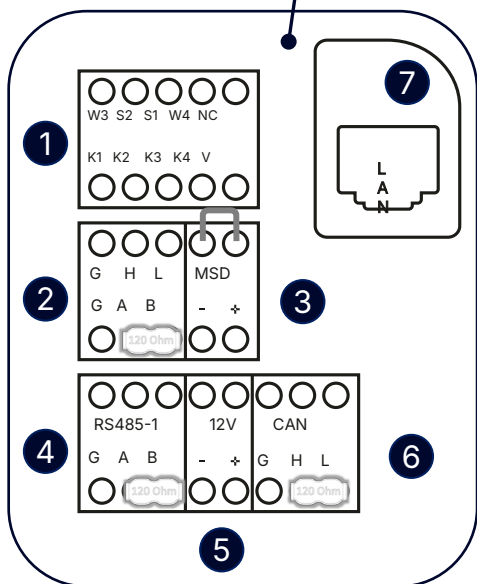
# Wiring the inverter communications



The information in this guide is subject to change without notice. The system's final configuration, including the addition of communication termination resistors, is expected to be available in mid-2026. Until then, the system operates normally in its current configuration. While minor communication-related irregularities may occasionally occur, overall system performance is not affected and will be fully optimized once the final configuration is implemented.



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 RS485-1
5. 12 V
6. CAN – Battery
7. LAN



= termination resistor



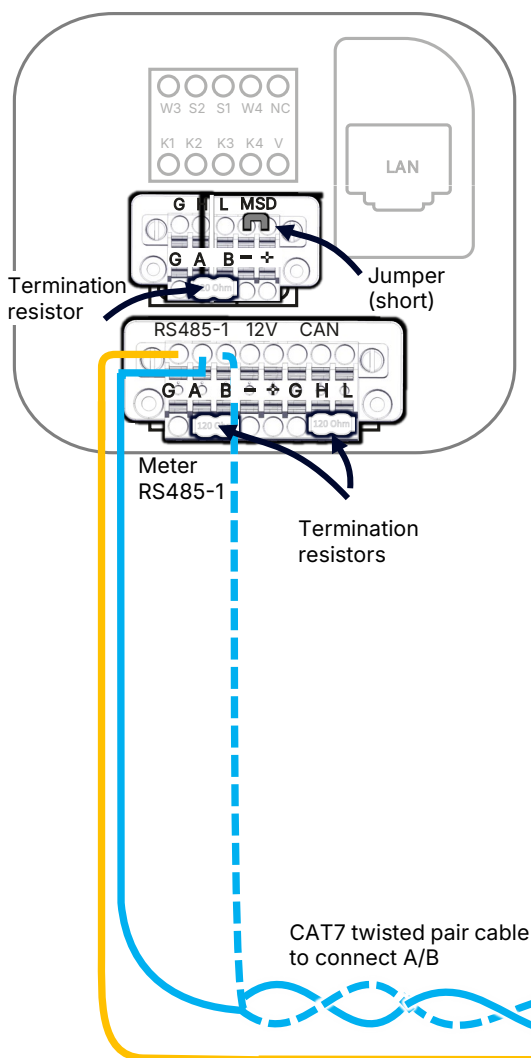
The connector plugs are pre-connected to the inverter. Release the screws to remove the connectors.



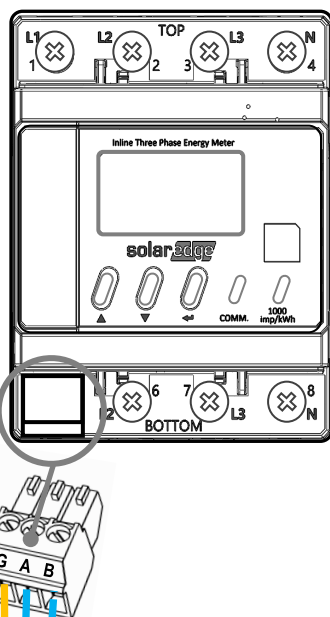
## Wiring the Meter RS485-1



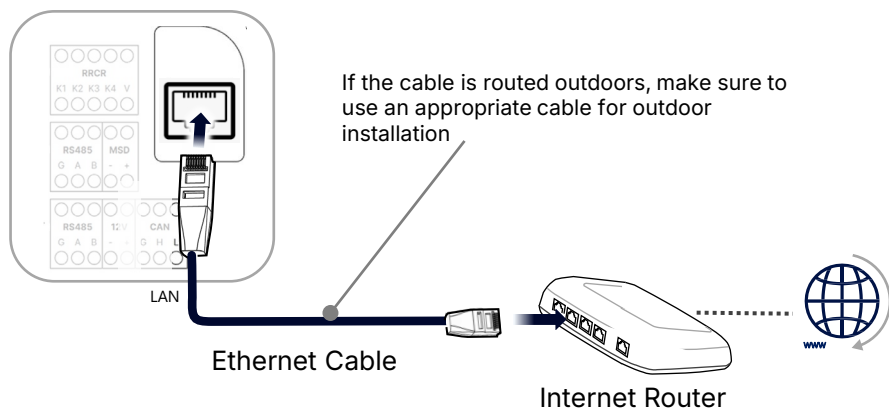
To easily connect the communication cable, remove the two side screws and the connector, and after making the connections, reinsert the connector and tighten the screws.



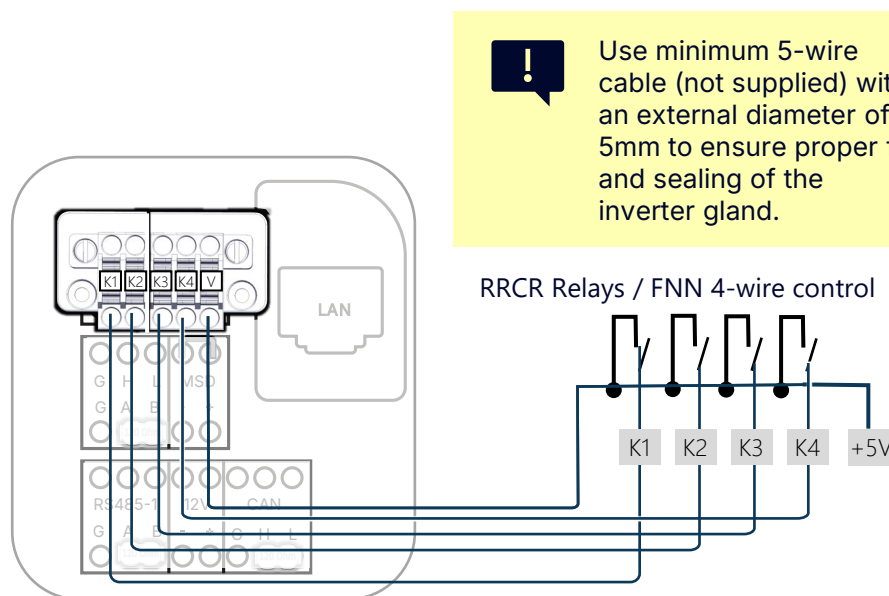
The SolarEdge Inline meter supports SolarEdge Home Network. The Nexis Inverter does **NOT** support SolarEdge Home Network. It will be supported in the future.



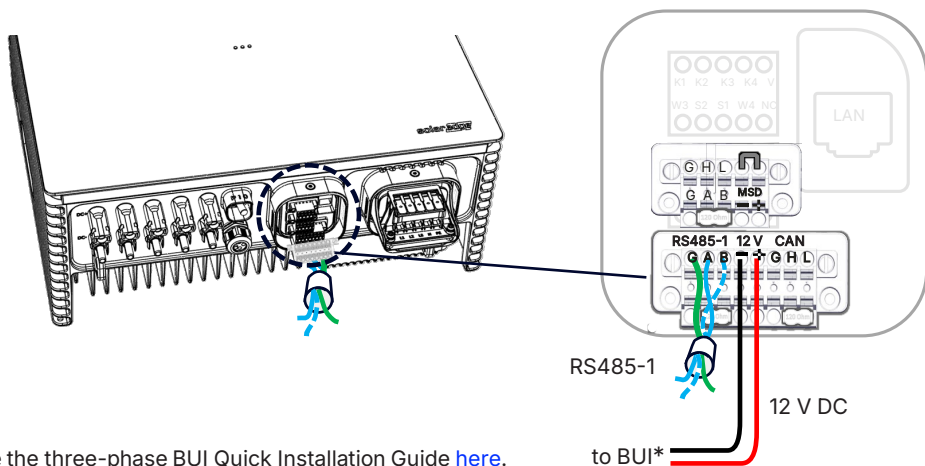
## Wiring the LAN



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

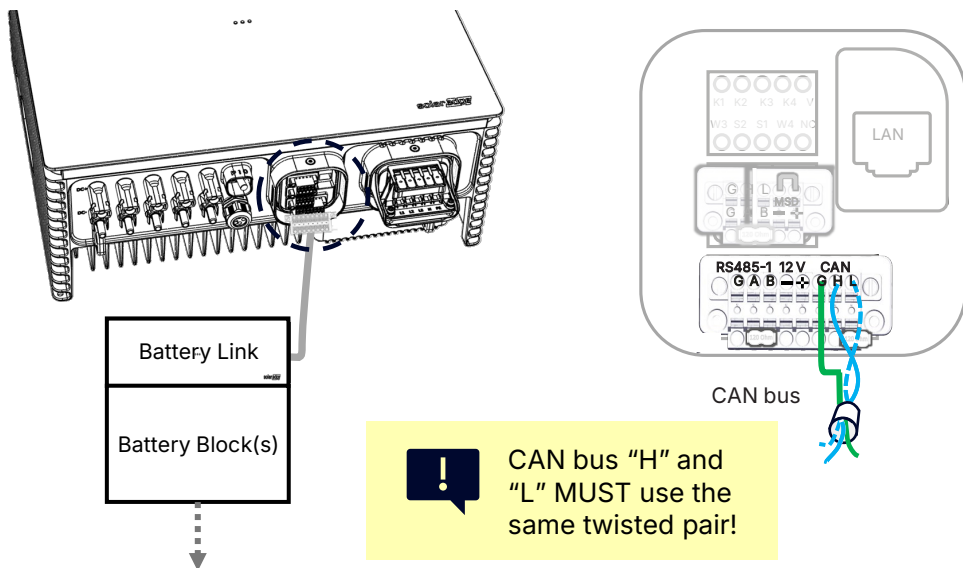


## Wiring communications and 12 V power for the BUI



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

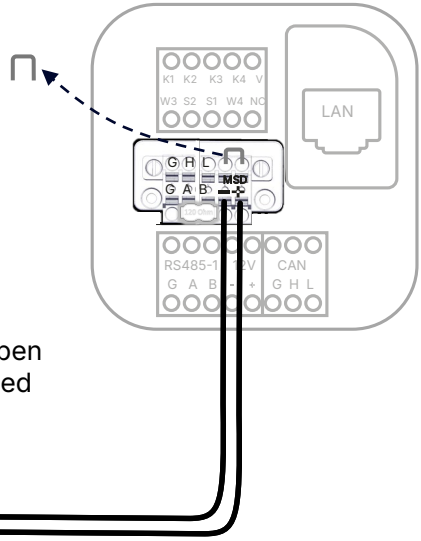
## Wiring communications from the Battery to the Inverter



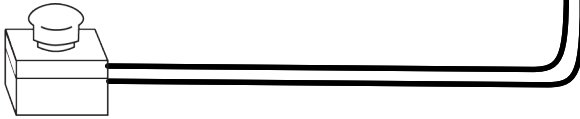
## Wiring a Manual Shutdown switch to the inverter for Backup operation



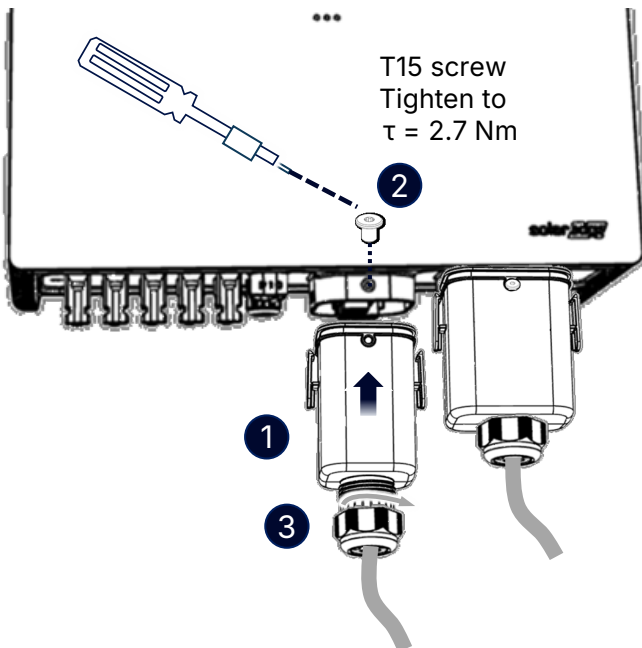
Remove jumper when connecting the manual shut-down switch



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

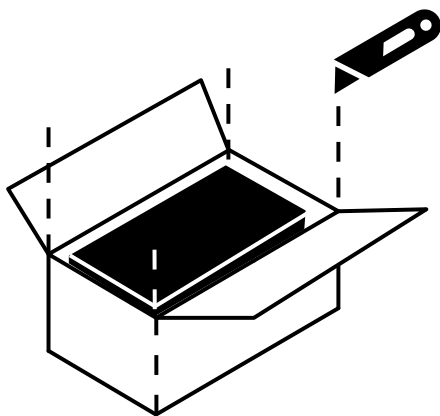


## Refit the Comms cover cup

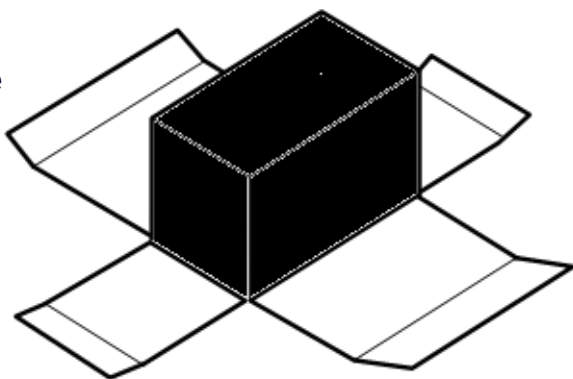


# 1a. Opening the Battery Package

- 1 Cut along the dashed lines



- 2 Use the package as your working surface



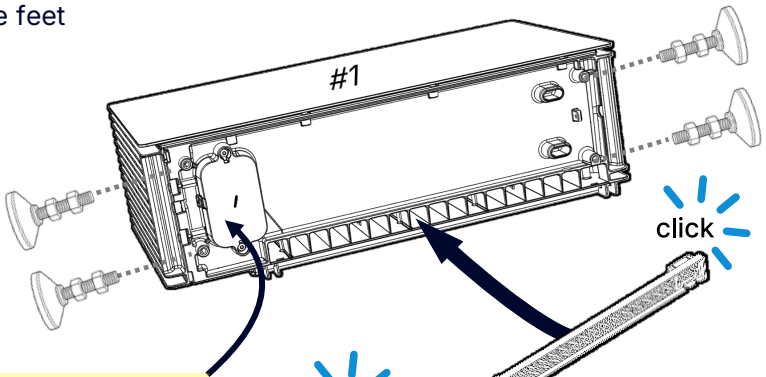
# 1b. Installing the Battery

## 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



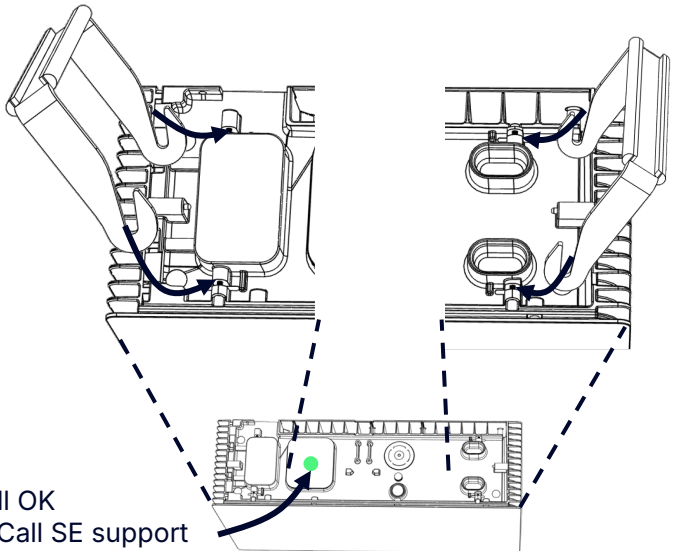
Do not remove the bottom cap cover

click

### 2 Attach the filter



### 3 Attach the handles

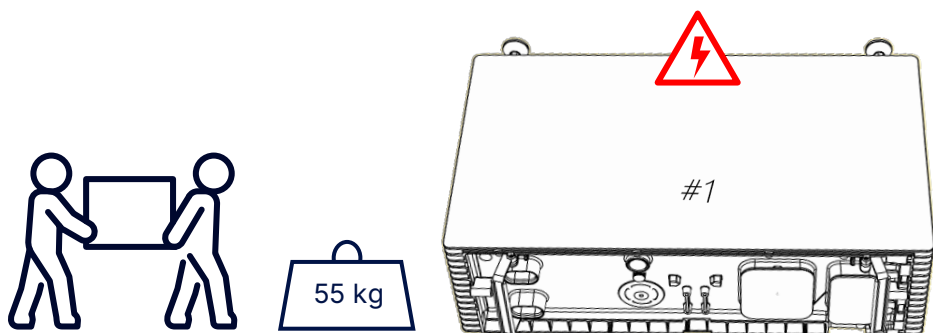


Blinking LED – all OK  
No LED – error! Call SE support

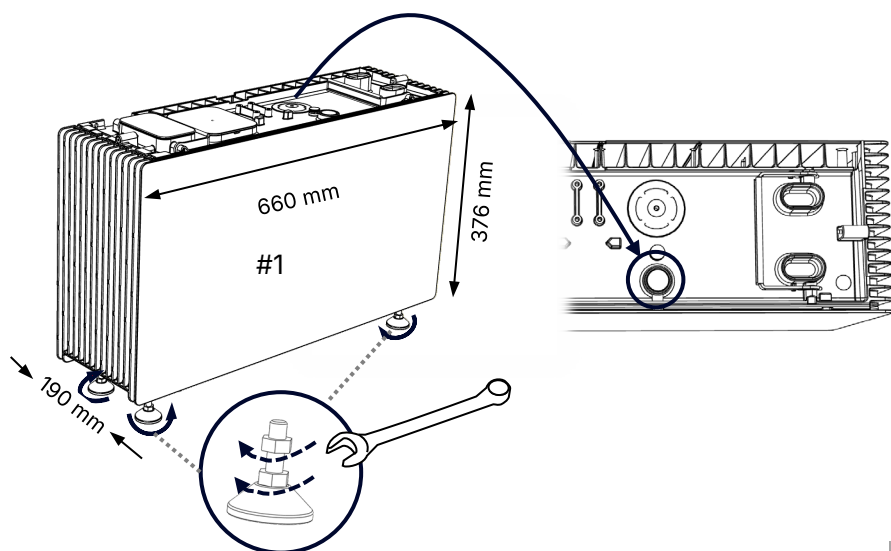




- 4 Use 2 people to lift the Battery Block onto its feet

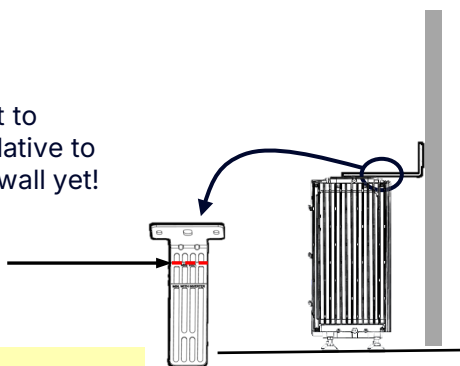


- 5 Level the first Battery Block by adjusting its feet - floor mount



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"):



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

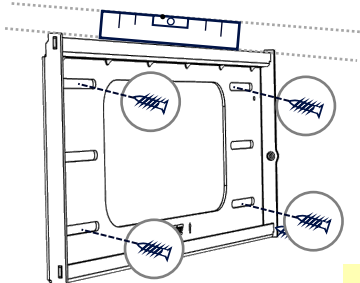


# 1c. Installing the Battery

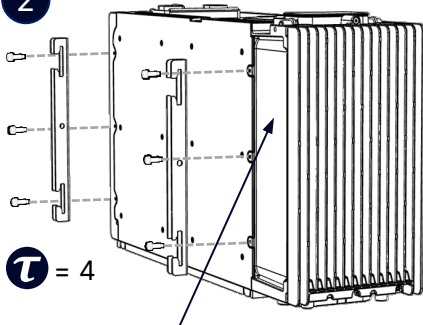
## Wall mount – Battery Block #1

1

Level the wall bracket and attach it to the wall



2

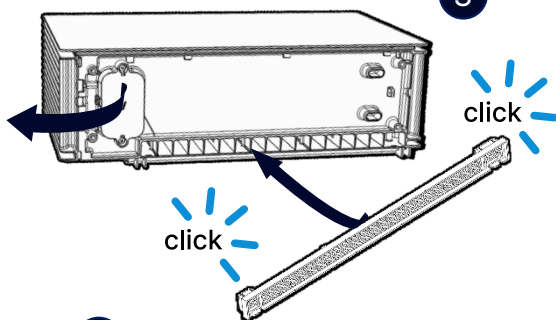


Take note of the OFFSET that these brackets cause to the position of the Battery Block when mounted on the wall.



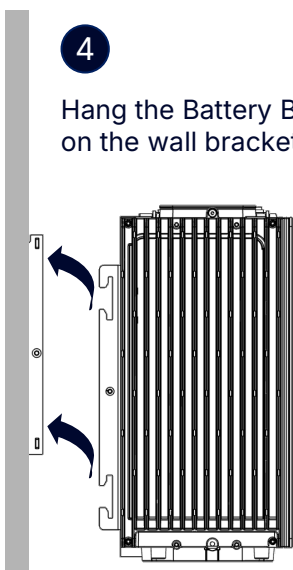
Do not remove the bottom cap cover

3



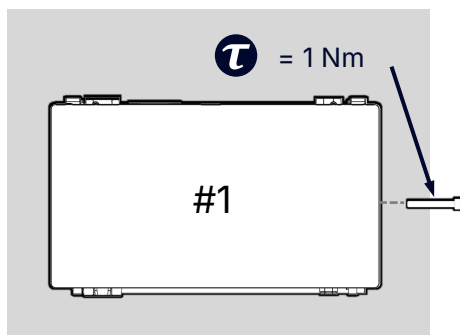
4

Hang the Battery Block on the wall bracket

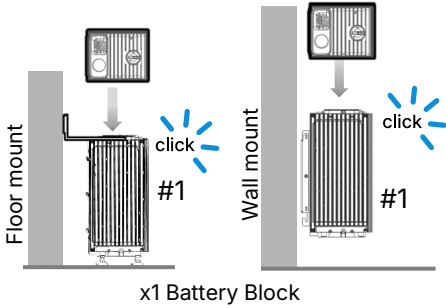


5

Fix the Battery Block to the wall bracket

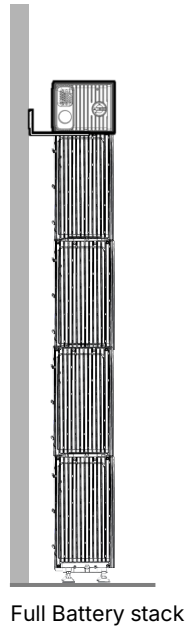
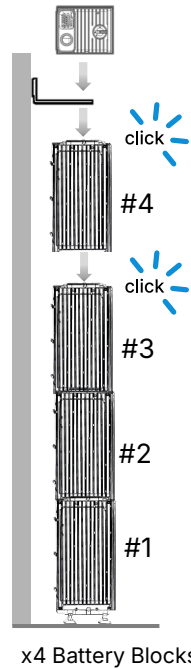
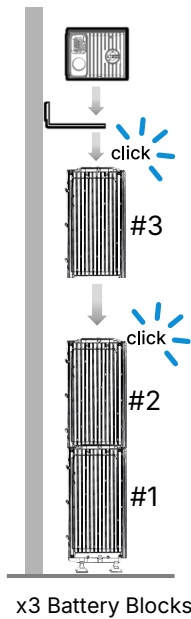
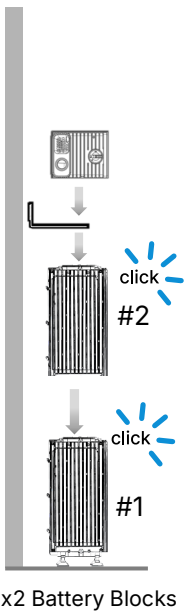


# Building the battery – 1,2,3,or 4 Battery Blocks with Battery Link



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

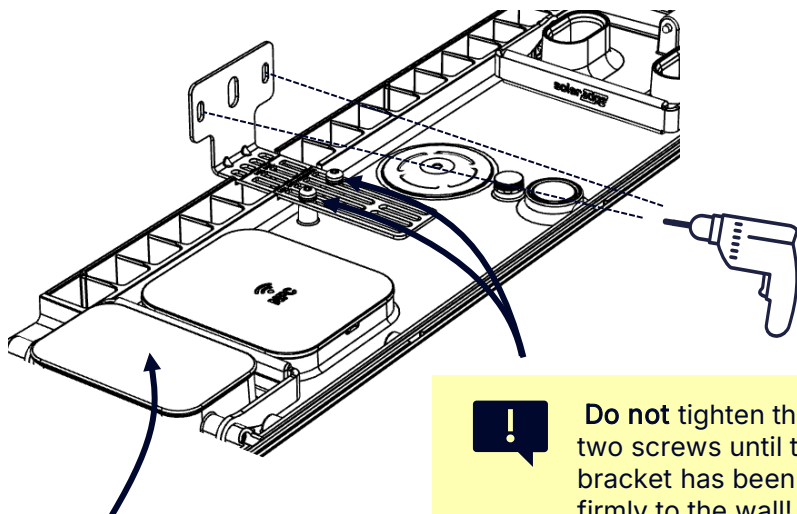
Same process for  
Floor or Wall mount



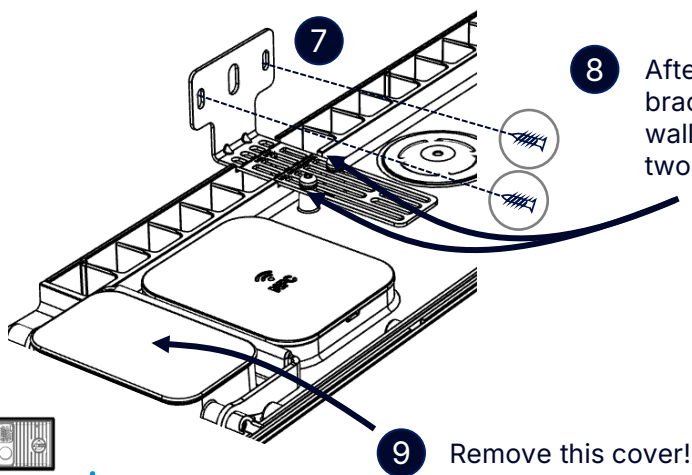
We recommend that the tilt bracket be installed either on top of the uppermost Battery Block OR on the one below the uppermost Block. It must NOT be installed on any of the lower-level Battery Blocks.



- 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.

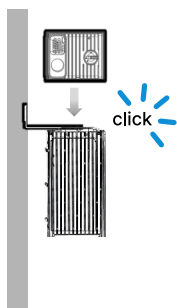


! Do not remove this cover until drilling is complete!



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

- 9 Remove this cover!



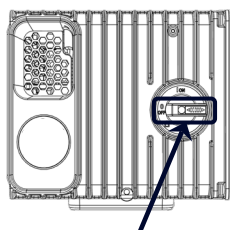
- 10 Attach the Battery Link to the top of the last Battery Block in the Stack.



## | Initial wiring steps

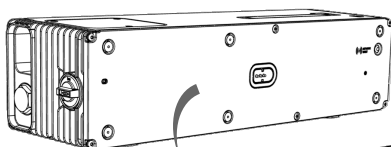
- 1 Turn OFF the AC circuit breaker and set the inverter P/1/0 switch to "0".
- 2 Turn OFF the Battery Link.

## | Opening the Battery Link



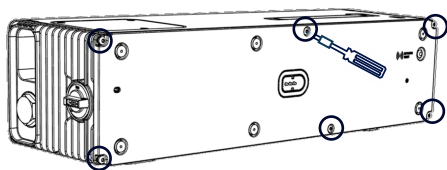
Wait 5 min  
before open  
the Battery Link

1 OFF

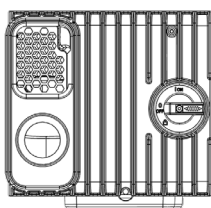


2

Decorative cover



3 Release captive screws x6 (T25)



4



## Wiring the Battery Link – left entry

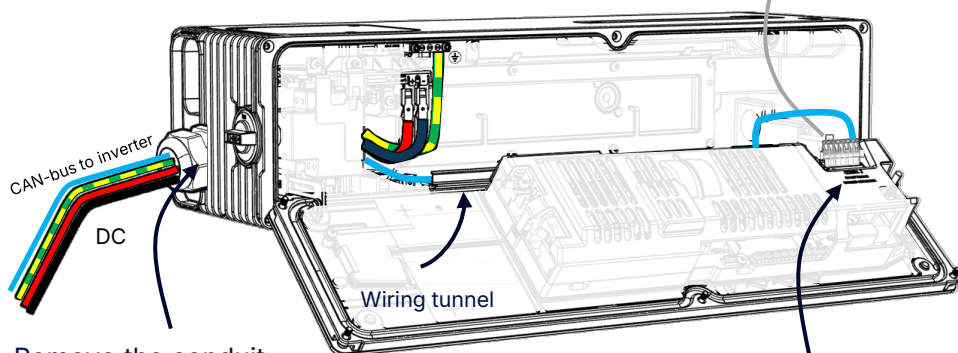
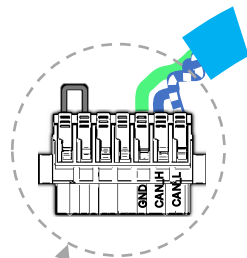


DC and GND wire stripping lengths:

 19 mm

 12 mm

Ferrules are NOT mandatory.

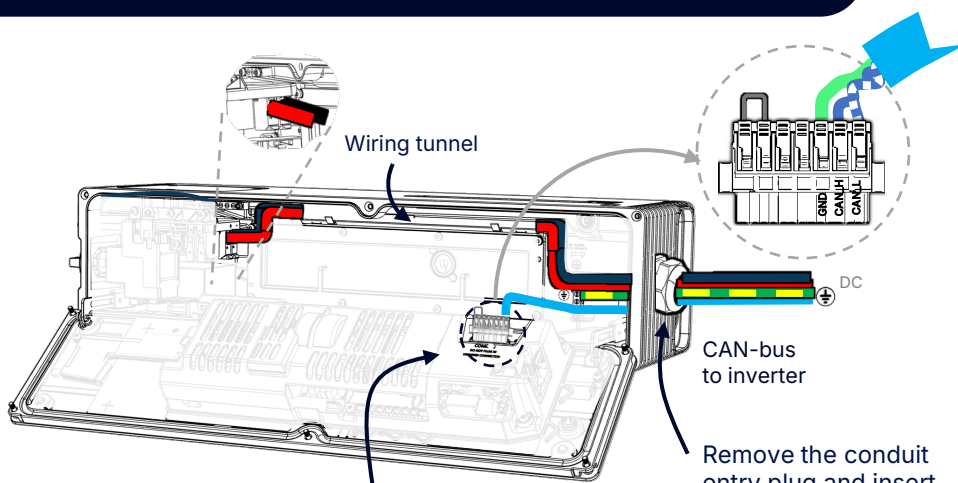


Remove the conduit entry plug and insert the supplied gland.



Do NOT insert an unwired plug into the comms connector!

## Wiring the Battery Link – right entry



Remove the conduit entry plug and insert the supplied gland.



Do NOT insert an unwired plug into the comms connector!



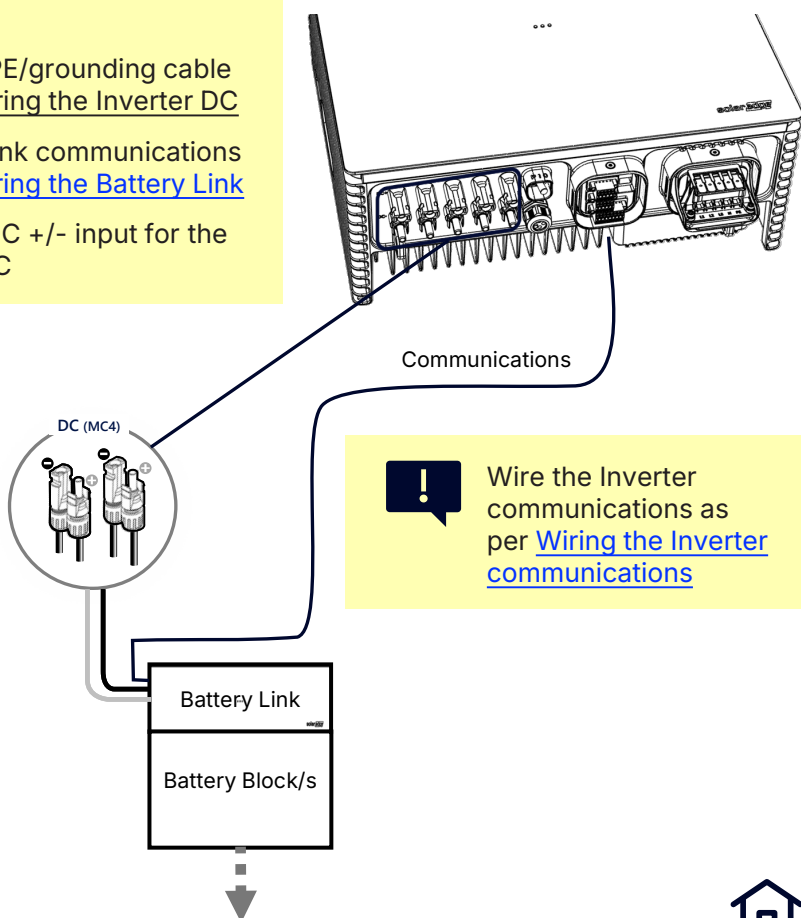
## GND bus bar screw tightening torque:

| 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

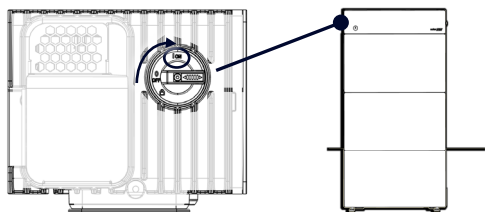


- Connect PE/grounding cable as per [Wiring the Inverter DC](#)
- Wire the link communications as per [Wiring the Battery Link](#)
- Use any DC +/- input for the Battery DC

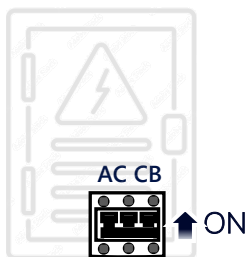


## | 2. Power on the system

### 1 Battery Link



### 2 Electrical cabinet

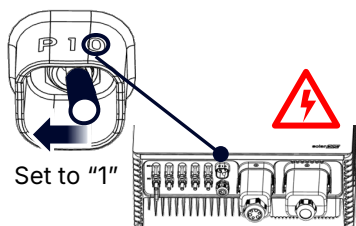


### 3 BUI



Set to "1"

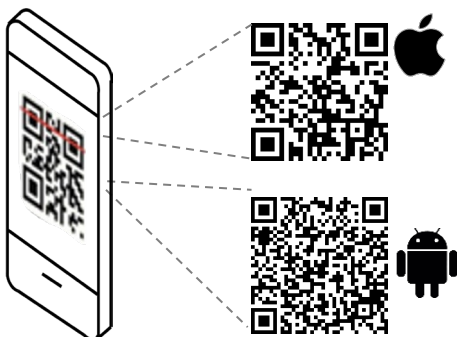
### 4 Inverter



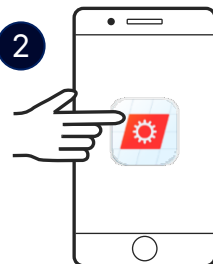
## | 3. Commissioning the inverter

### 1

Scan for  
SolarEdge  
GO



### 2

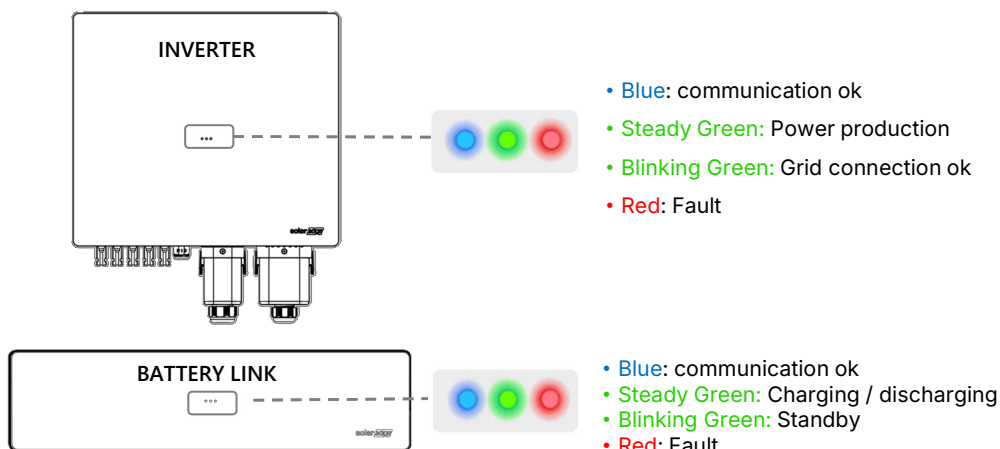


Run SolarEdge Go and  
follow the instructions  
on the screen





## | 4. 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

