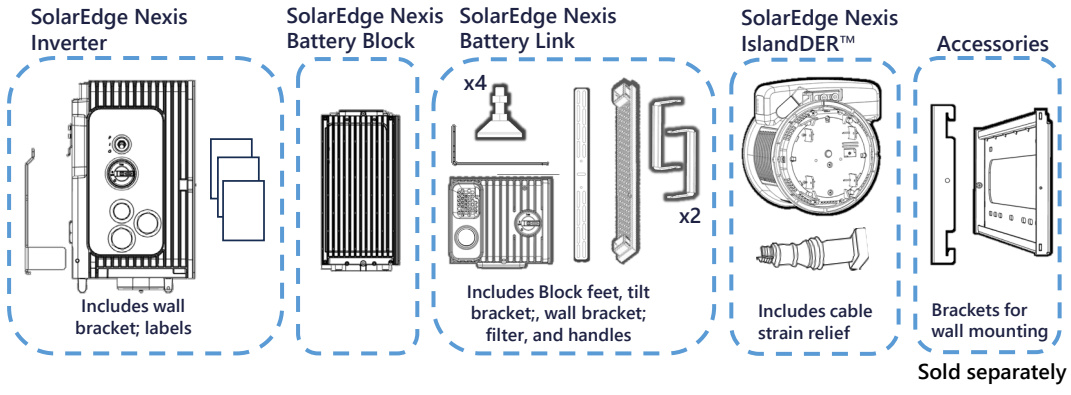
SolarEdge Nexis Solution
1ph for North America
Quick Installation Guide - Version 1.0

MAN-01-01263-1.0

System components



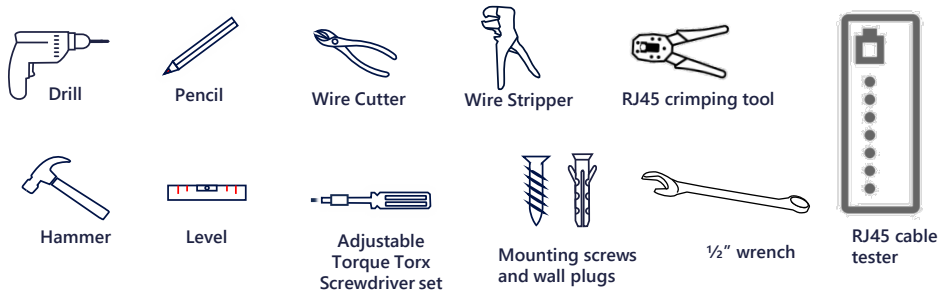
WARNING!
This symbol denotes a hazard. The symbol calls attention to a procedure that could result in injury or loss of life if not correctly performed or adhered to. Do not proceed beyond a warning note until the conditions are fully understood and met.

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.

TORQUE: A torque value in Nm

For the SolarEdge Nexis Information center, click here.

Tools and materials

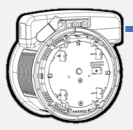


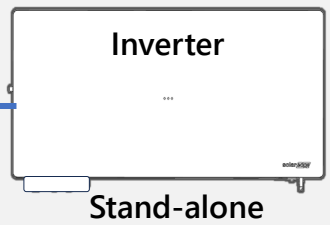
IMPORTANT NOTE

RECOMMENDED

SYSTEM OVERVIEW

The meter collar is a transfer switch - for Backup only.
It also includes a built-in Import/Export meter

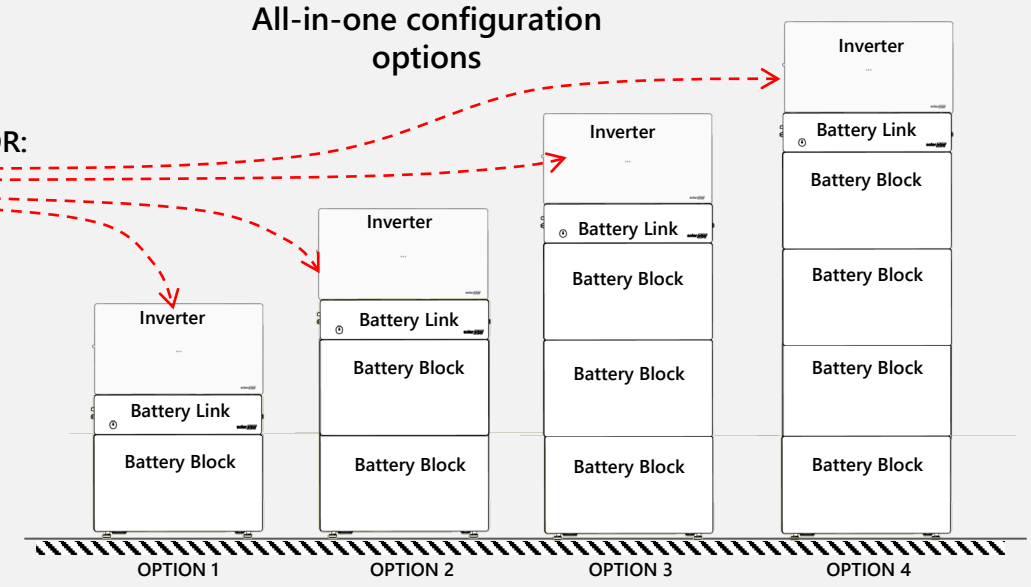




Stand-alone configuration

OR:

All-in-one configuration options

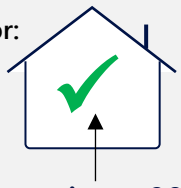


NOTE:

- A Battery Stack can consist of 1 to 4 Battery Blocks.
- Each Battery Stack must include 1 Battery Link.

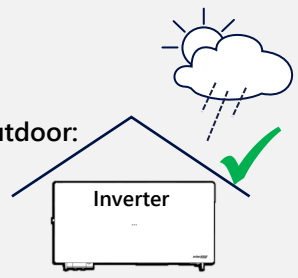
PLANNING

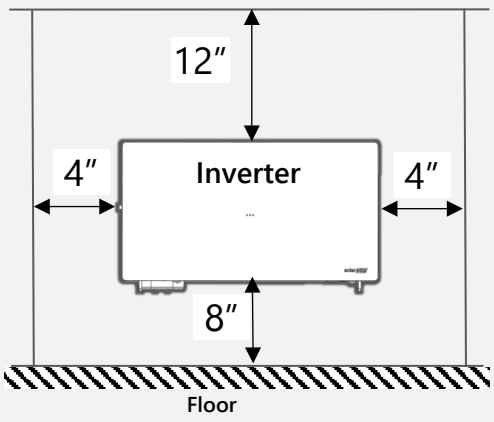
Indoor:

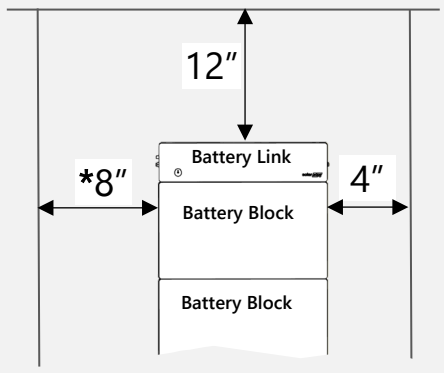


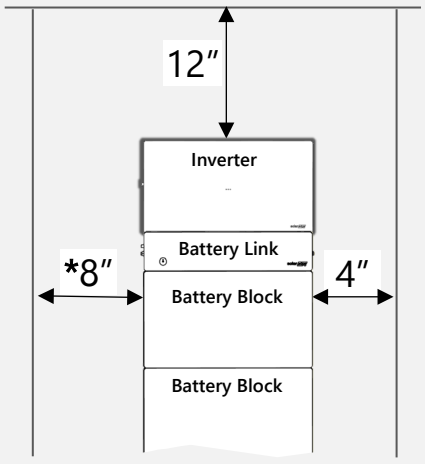
Room size ≥ 90 ft^3

Outdoor:



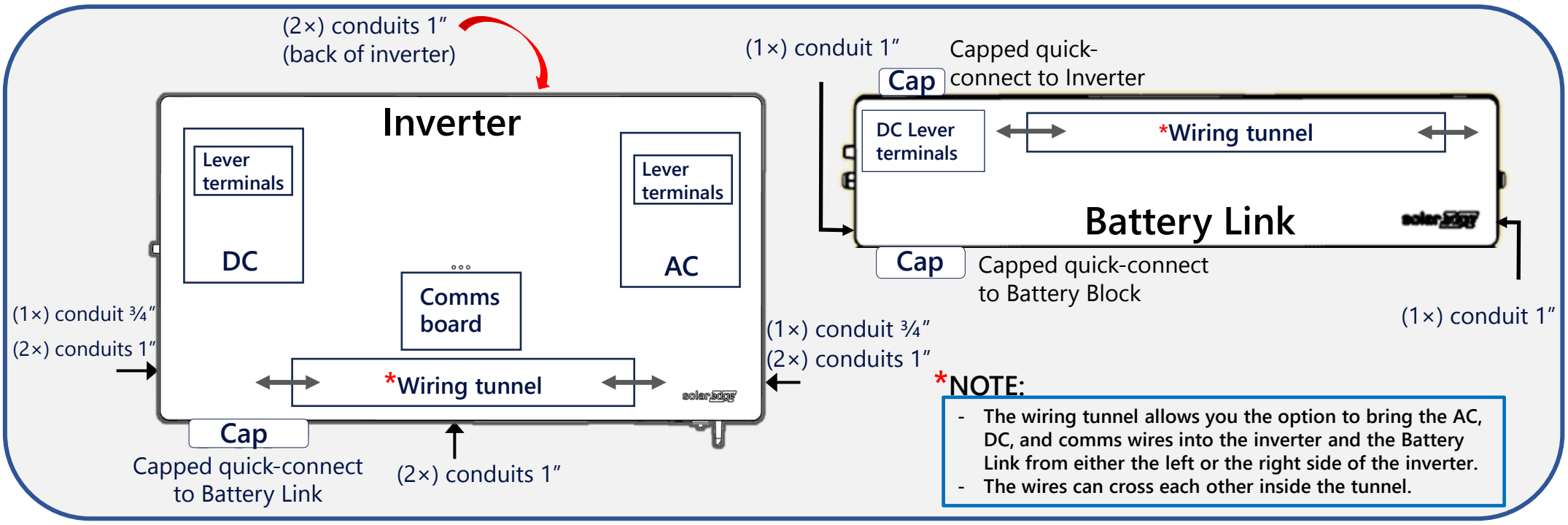






* 4″ is allowed, but 8″ is recommended for servicing the Battery Block/s.
- Min distance to window or door is 3 ft.
- Max distance between Inverter and Battery stack is 164 ft.

WIRING CONSIDERATIONS

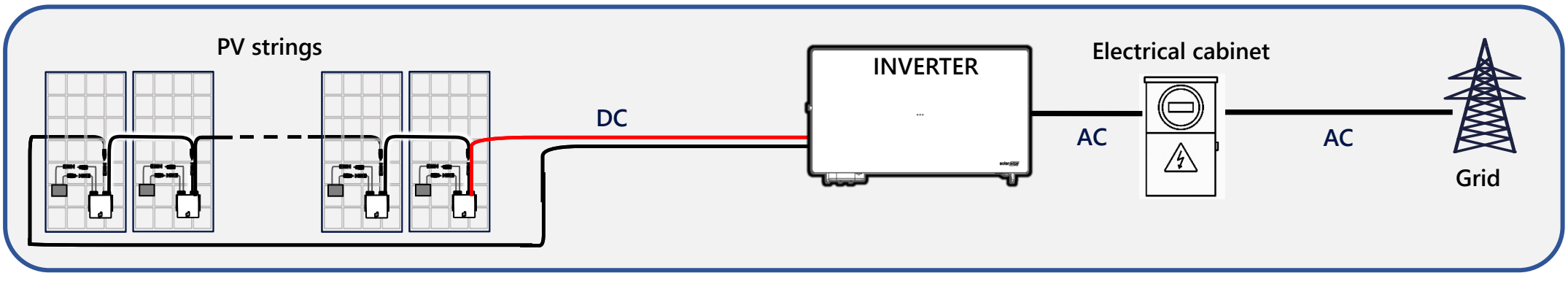


***NOTE:**

- The wiring tunnel allows you the option to bring the AC, DC, and comms wires into the inverter and the Battery Link from either the left or the right side of the inverter.
- The wires can cross each other inside the tunnel.

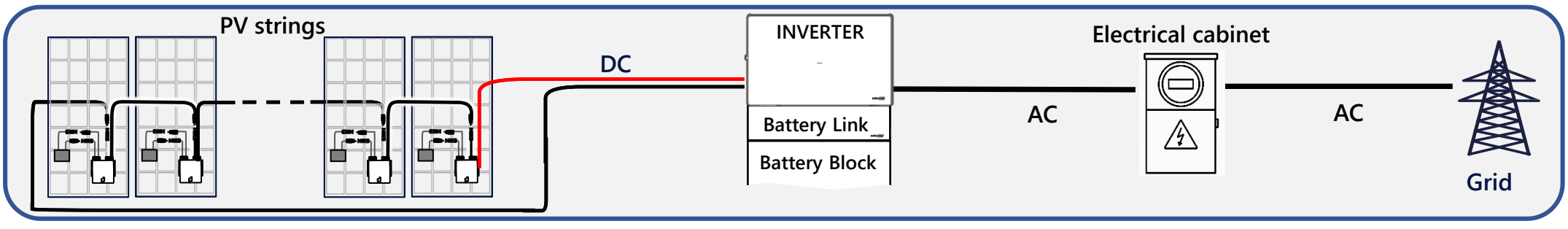
SYSTEM CONFIGURATION OPTIONS

1. PV-ONLY SYSTEM

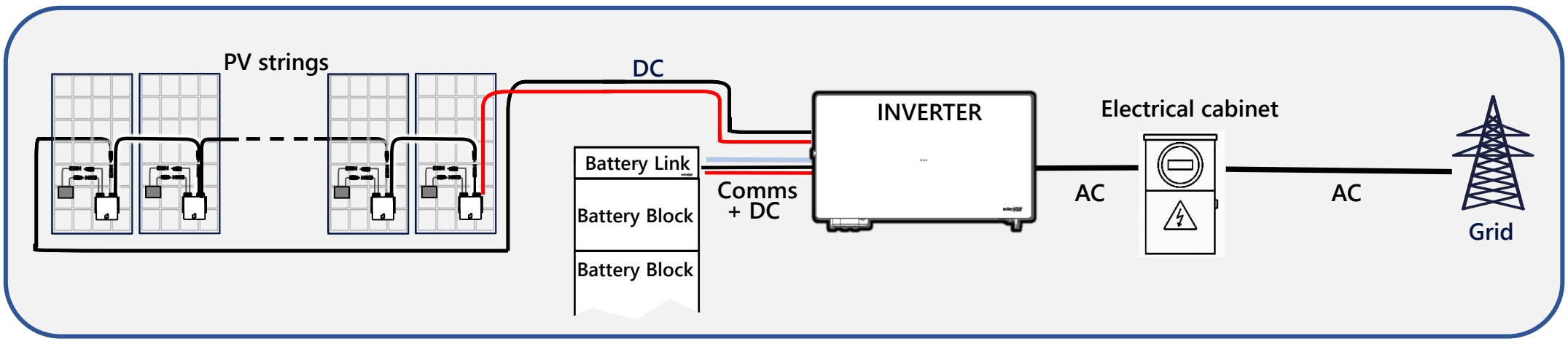


2. PV + STORAGE

2.1 ALL-IN-ONE CONFIGURATION

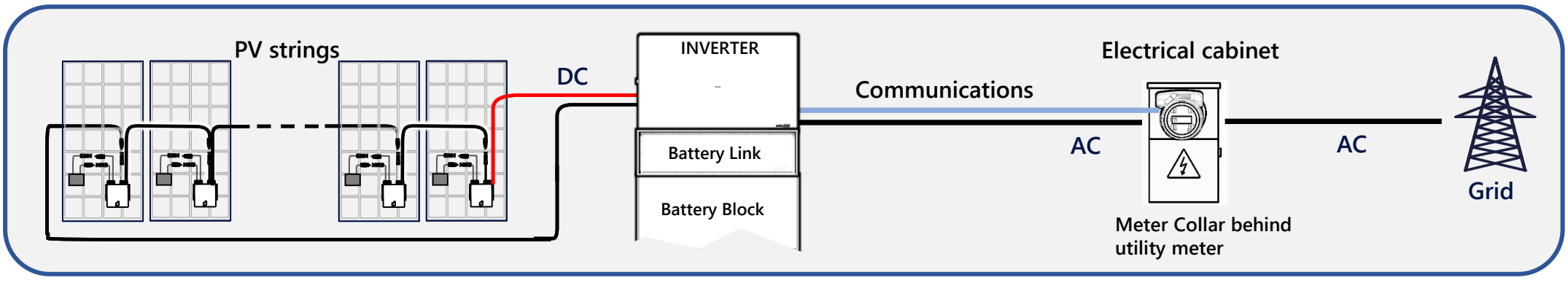


2.2 STAND-ALONE INVERTER CONFIGURATION

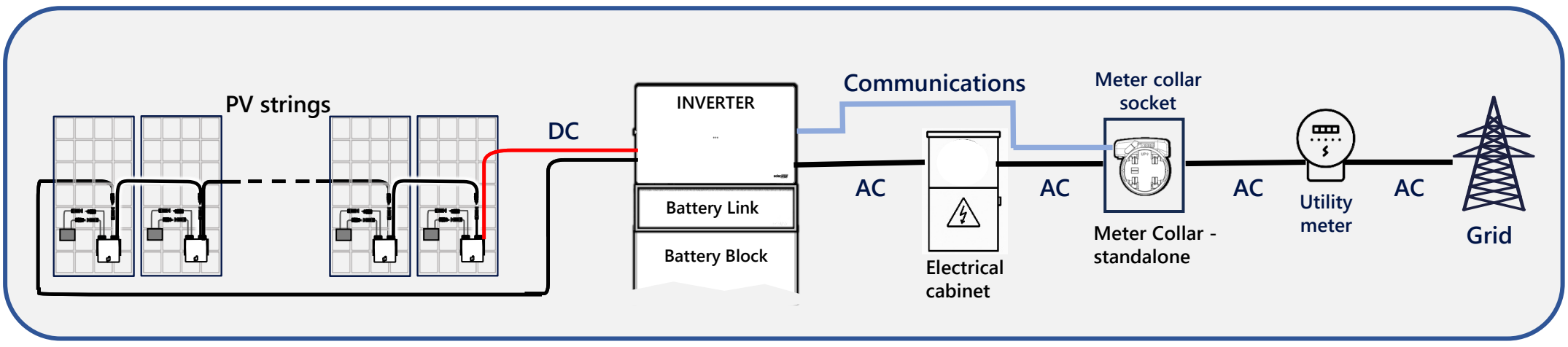


3. STORAGE WITH BACKUP SYSTEM

3.1 Meter Collar installed directly behind utility meter inside the electrical cabinet



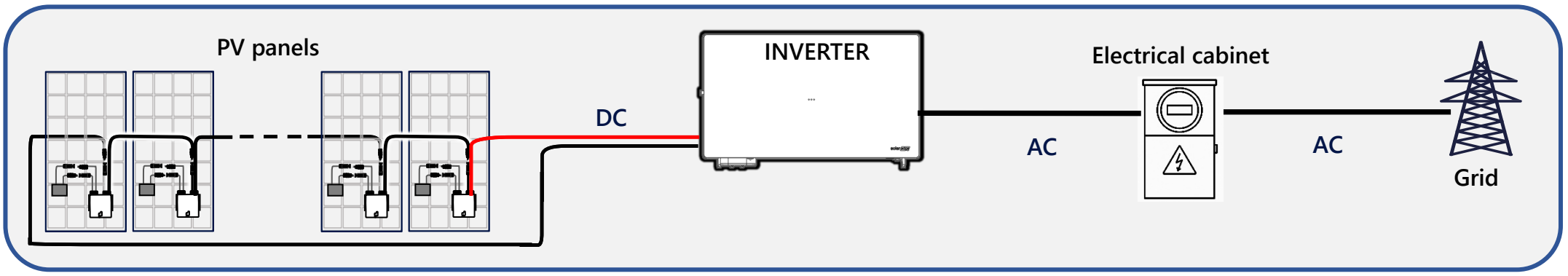
3.2 Meter Collar installed on a separate meter socket



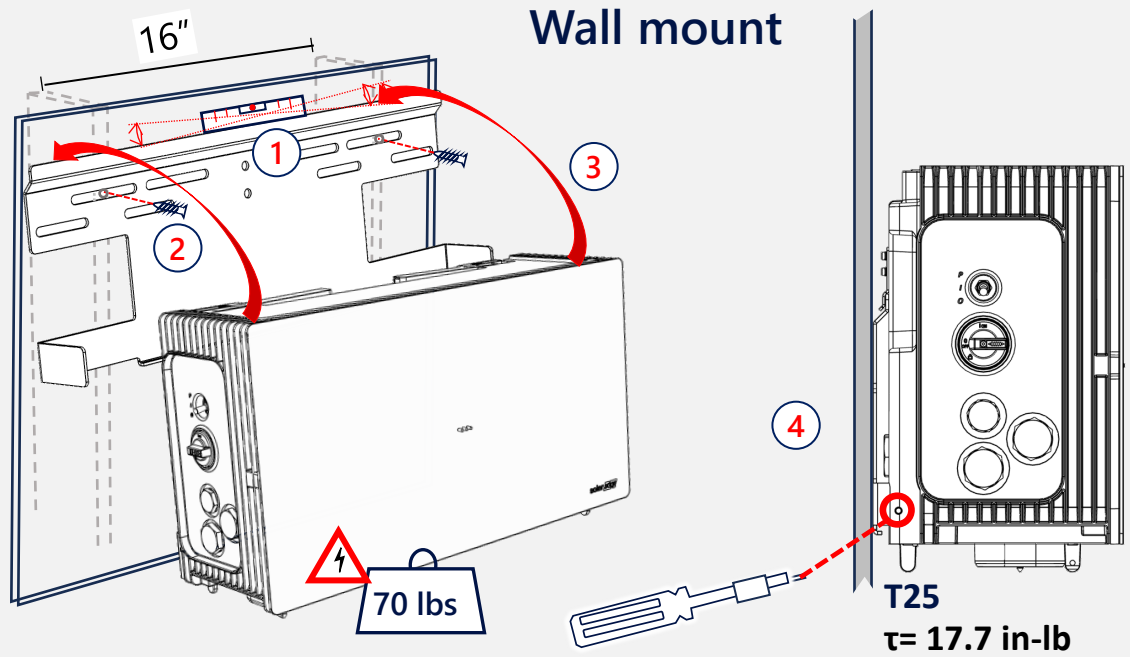
AUTO SOFTWARE UPDATES

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

1. PV-ONLY SYSTEM

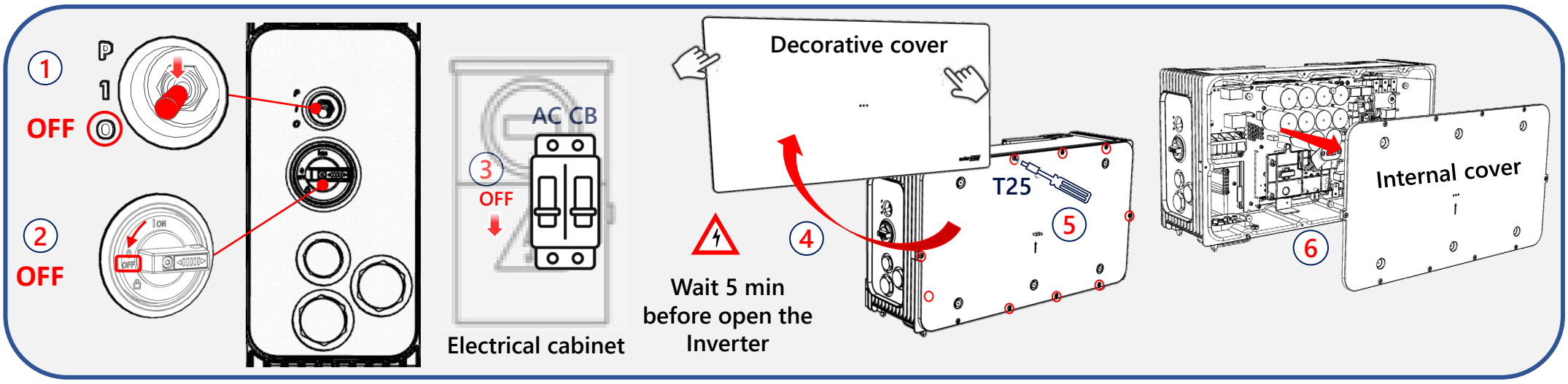


1.1 Mounting the inverter

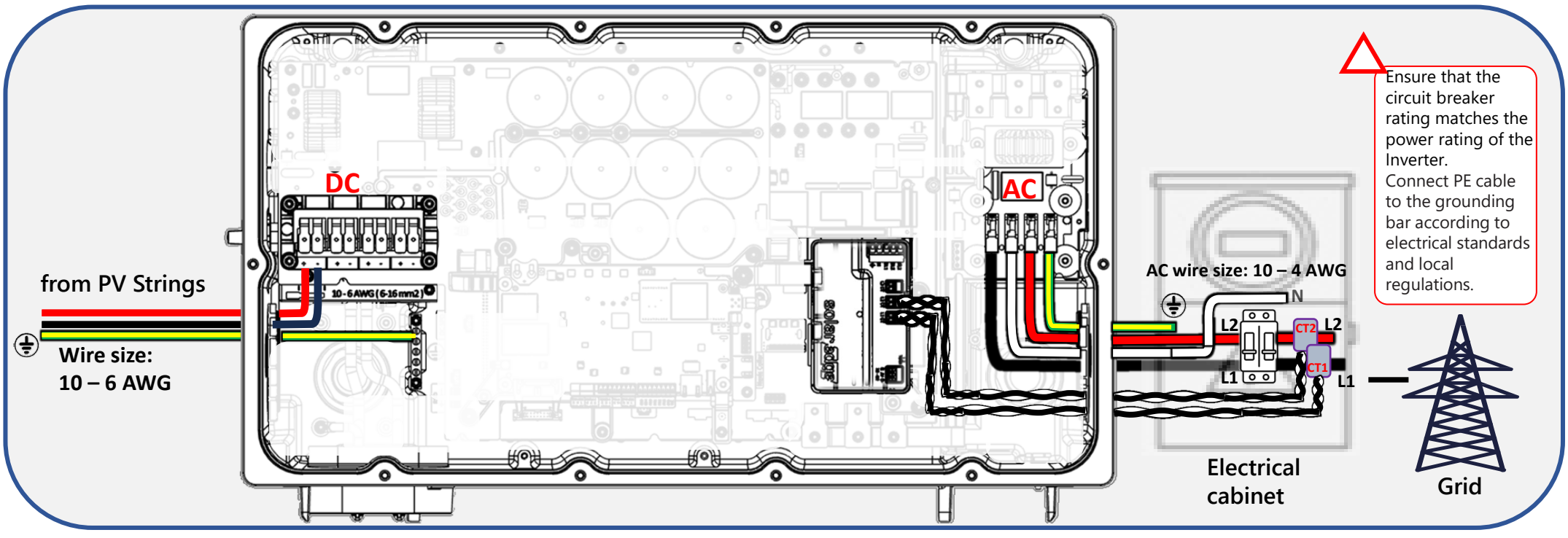


1. Position and level the wall bracket on the wall.
2. Fix the wall bracket to the wall using at least two fixing screws.
3. Using two people, hang the inverter on the wall bracket.
4. Insert the safety securing screws and tighten. There are 2 screws, one on each side of the inverter.

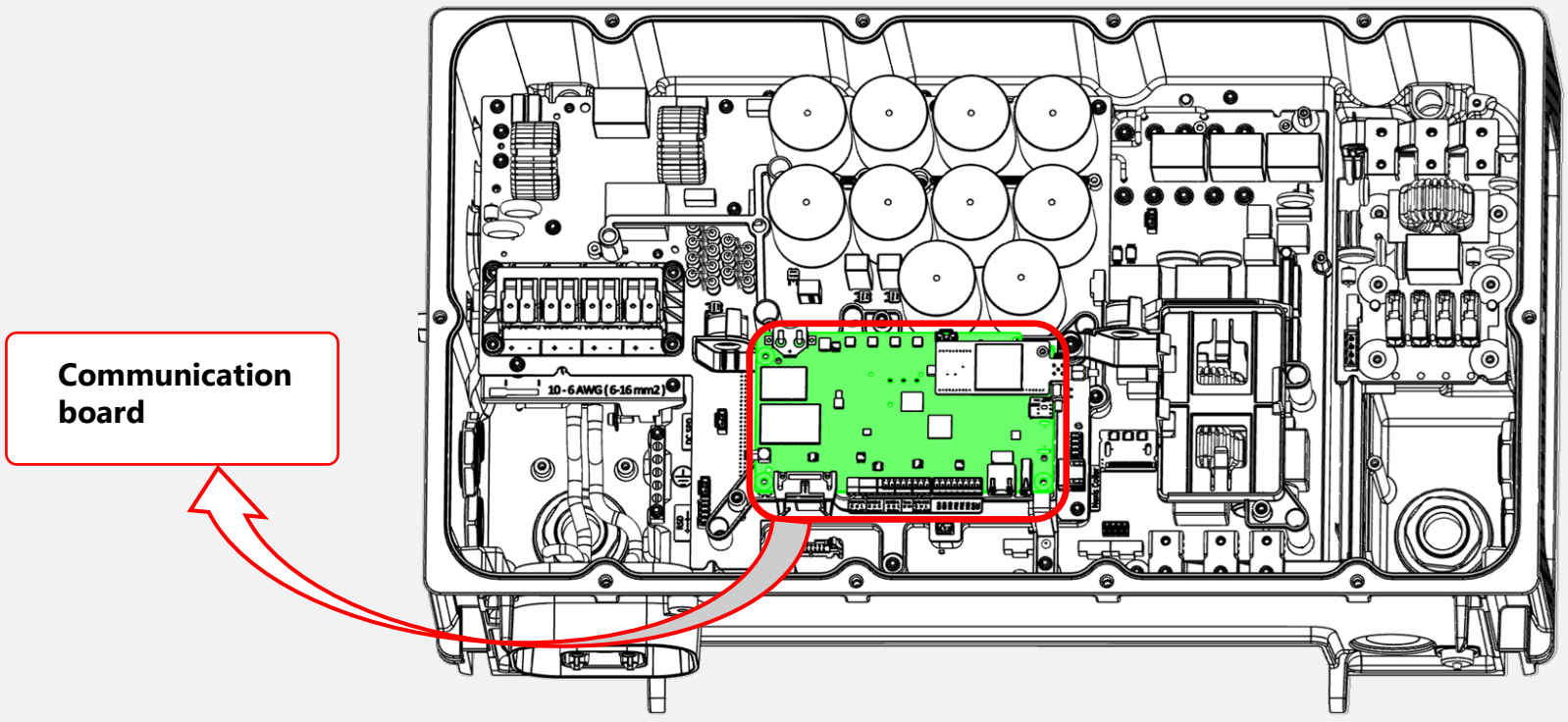
1.2 Removing the inverter covers



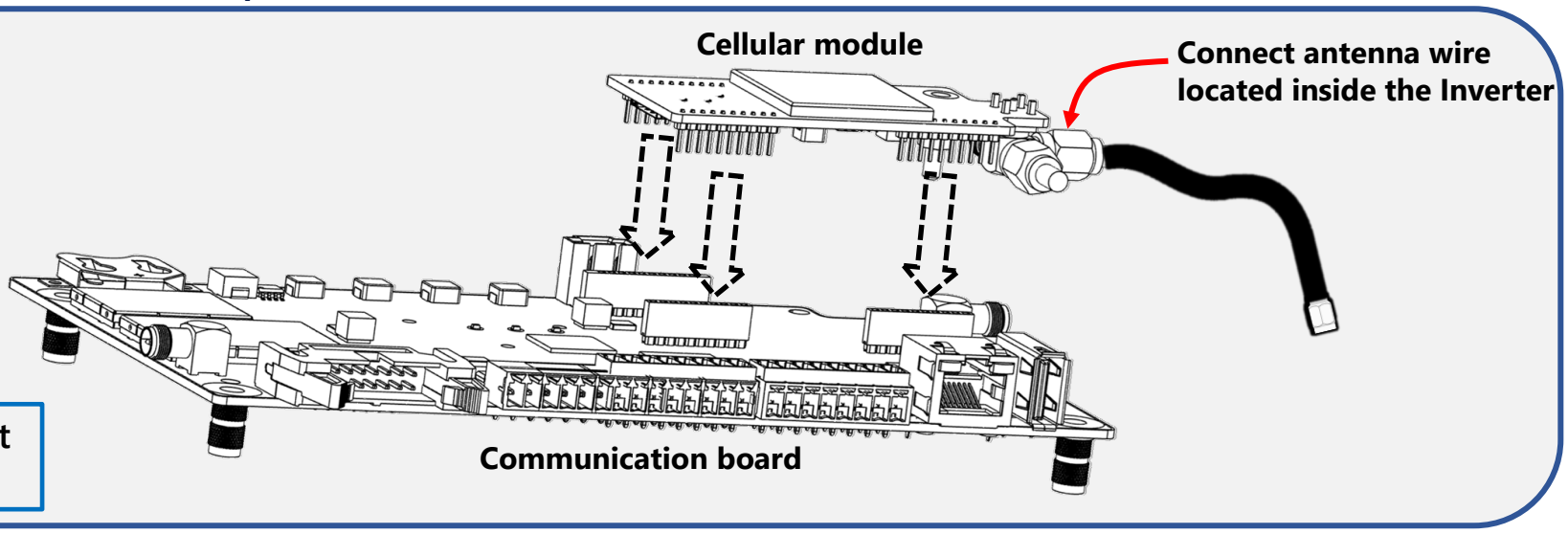
1.3 Wiring the inverter



1.4 Adding communications



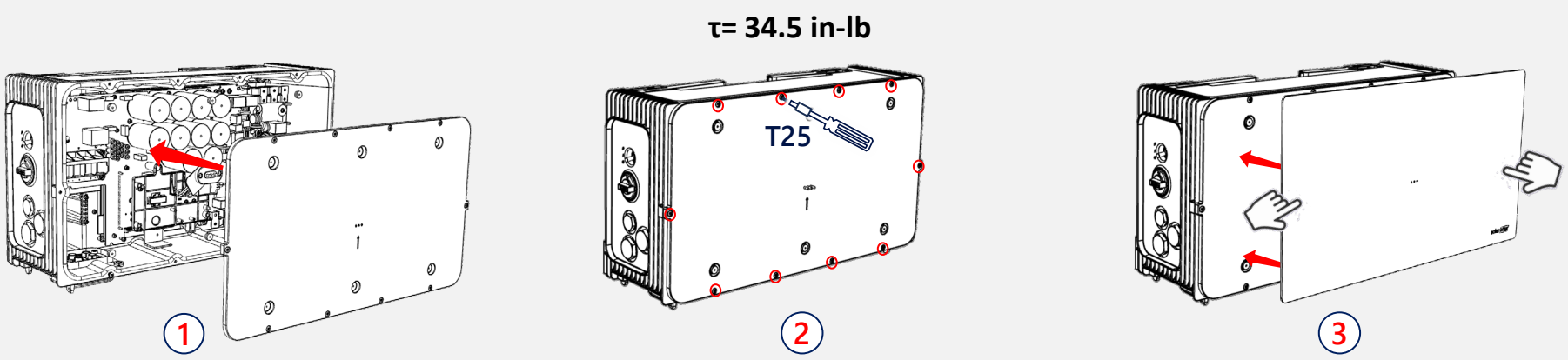
1.5 Adding cellular communications (optional)



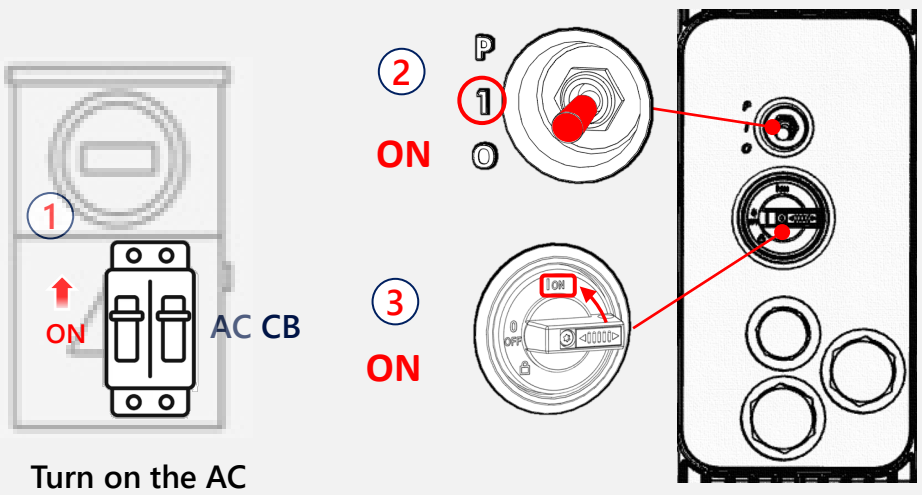
NOTE:

Don’t forget to open right external antenna

1.6 Refit the inverter covers



1.7 Connect to Wi-Fi (optional)



Turn on the AC

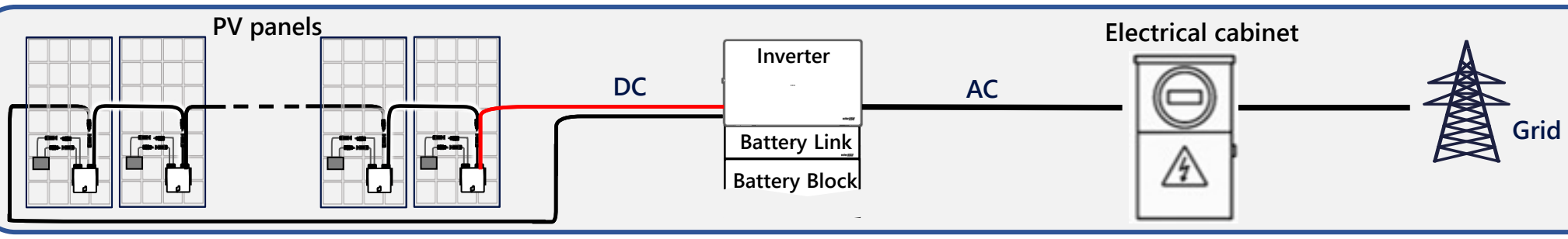
Turn on the inverter

Run SolarEdge Go and follow the instructions on the screen

Don’t forget to open left external antenna

2. PV + STORAGE

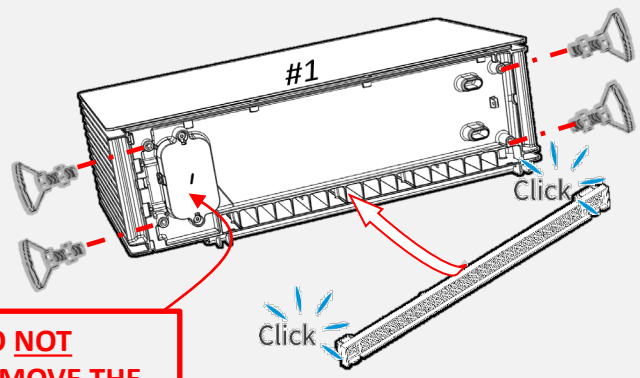
2.1 ALL-IN-ONE CONFIGURATION



2.1.1 Building the Battery

2.1.1.1 Floor mount – Battery Block #1 (all accessories available in battery Link package)

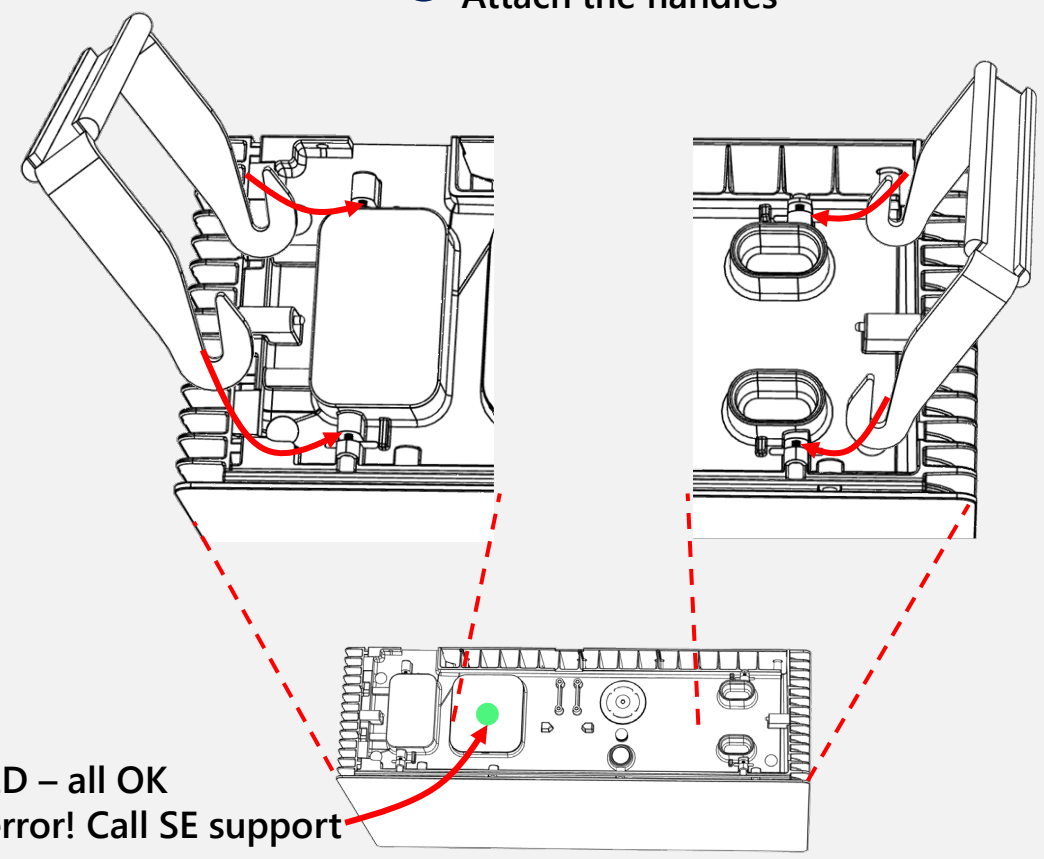
① Attach the feet



DO NOT REMOVE THE BOTTOM CAP COVER

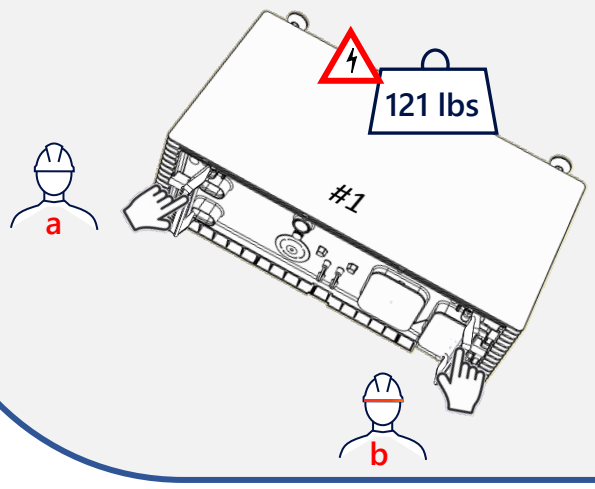
② Attach the filter

③ Attach the handles

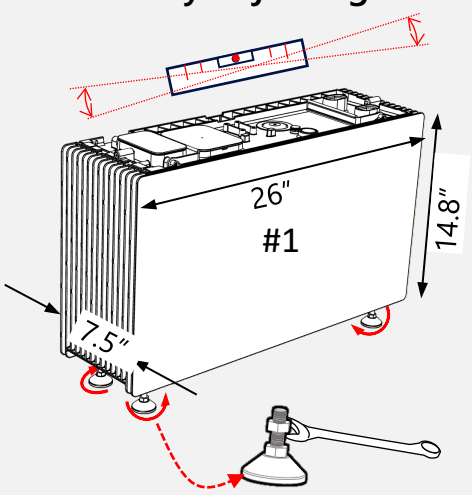


● Blinking LED – all OK
No LED – error! Call SE support

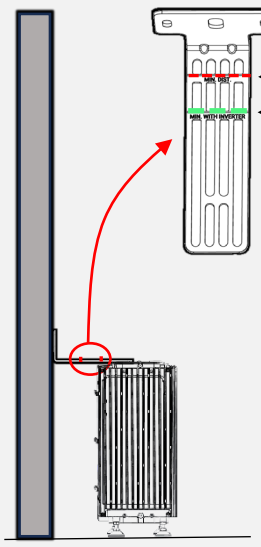
④ Use 2 people to lift the Battery Block onto its feet



⑤ Level the first Battery Block by adjusting its feet



⑥

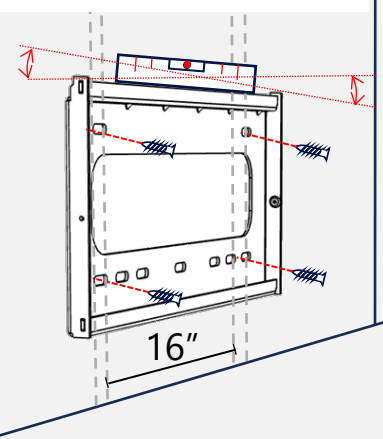


Minimum Distance from the wall:
← without Inverter on top
← with Inverter on top

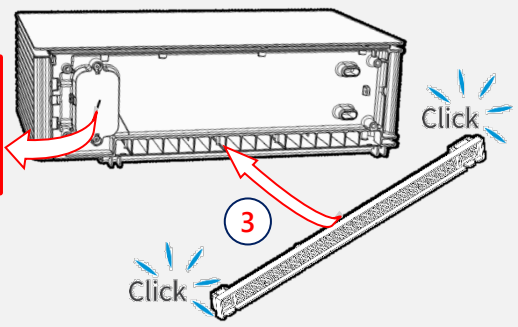
USE THE TILT BRACKET TO POSITION THE BATTERY BLOCK CORRECTLY RELATIVE TO THE WALL. DO NOT FIX THE BRACKET TO THE WALL YET!

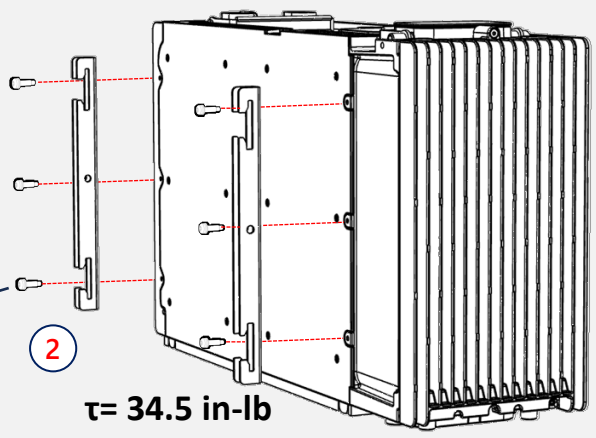
2.1.1.2 Wall mount – Battery Block #1

① Level the wall bracket and attach it to the wall



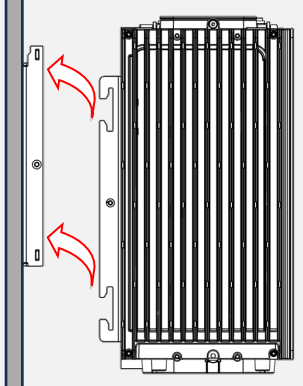
DO NOT REMOVE THIS CAP!

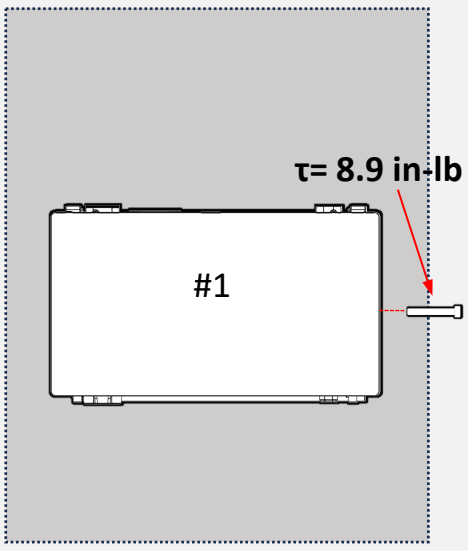


② 

τ= 34.5 in-lb

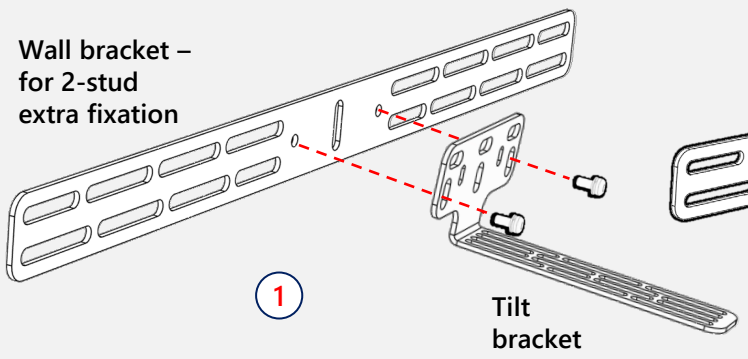
④ Hang the Battery Block on the wall bracket

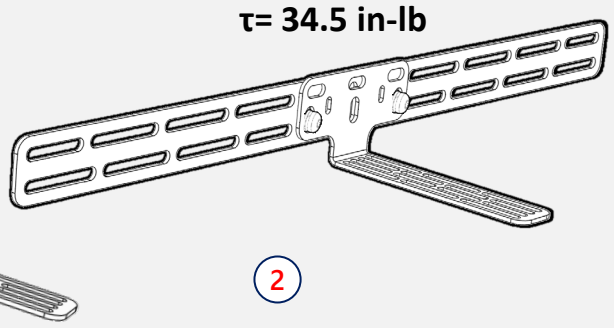


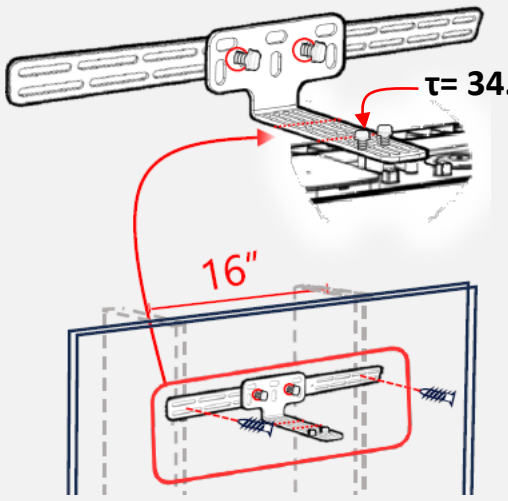


⑤ Fix the Battery Block to the wall bracket

2.1.2 Prepare the Battery brackets for wall or floor mounting

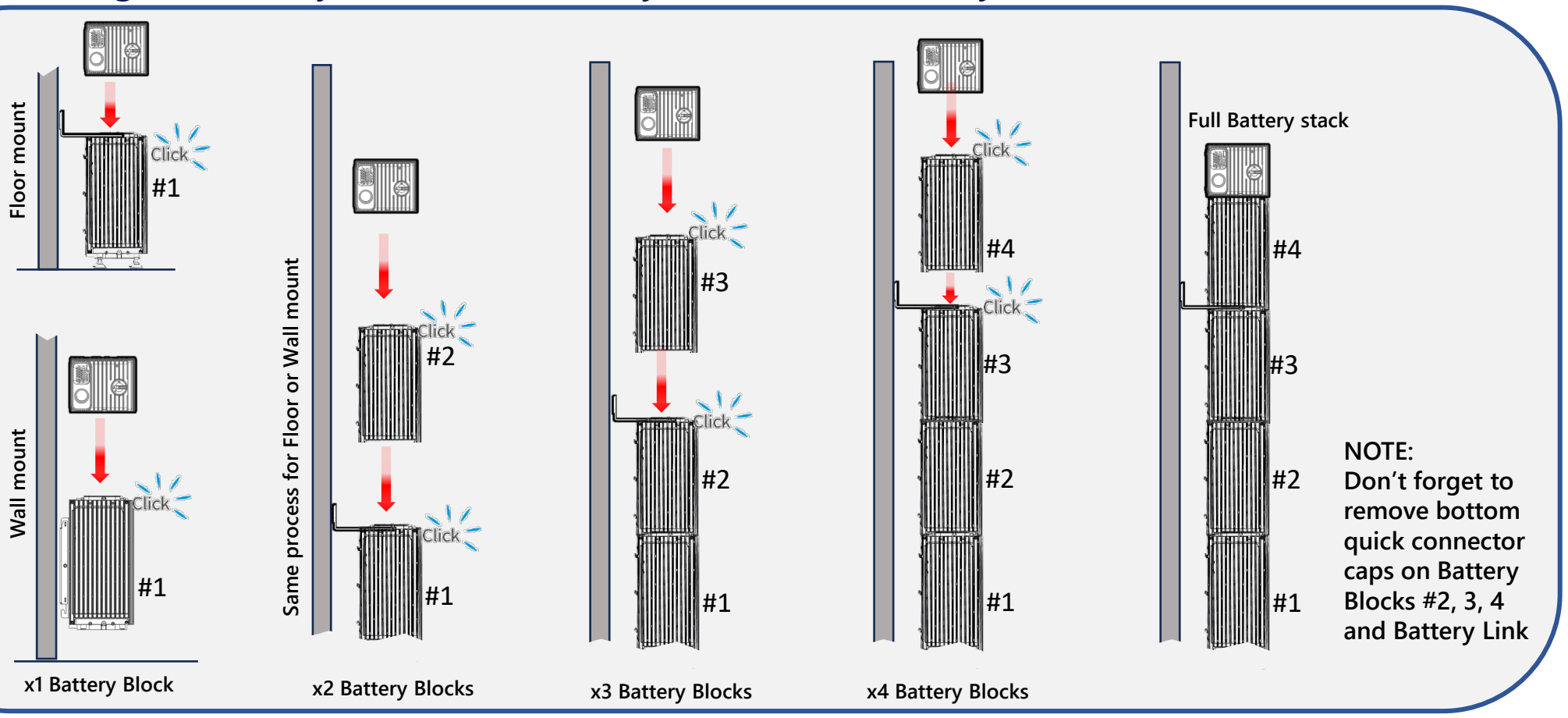






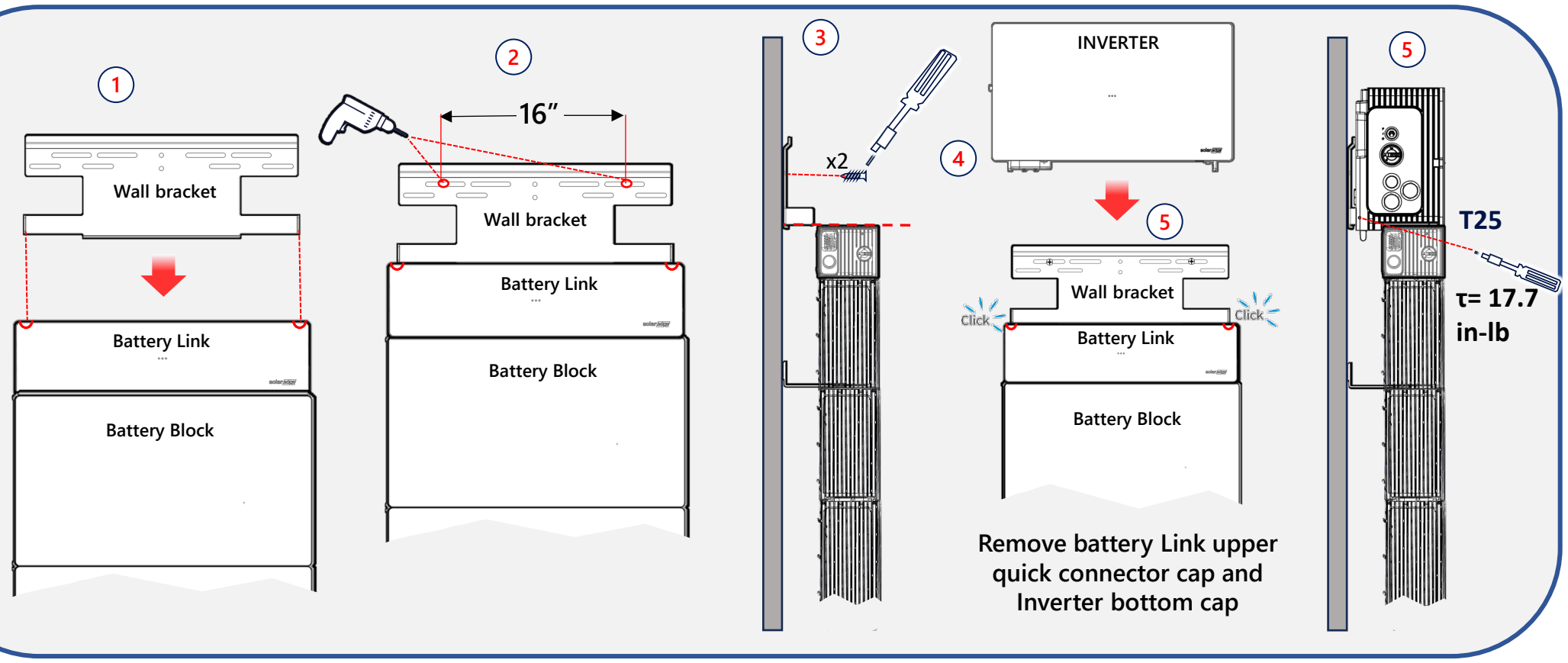
While assembling the battery stack, attach the bracket to the wall and to the battery block at the correct location as shown in next section

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



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

2.1.4 Mounting the inverter on Battery Stack

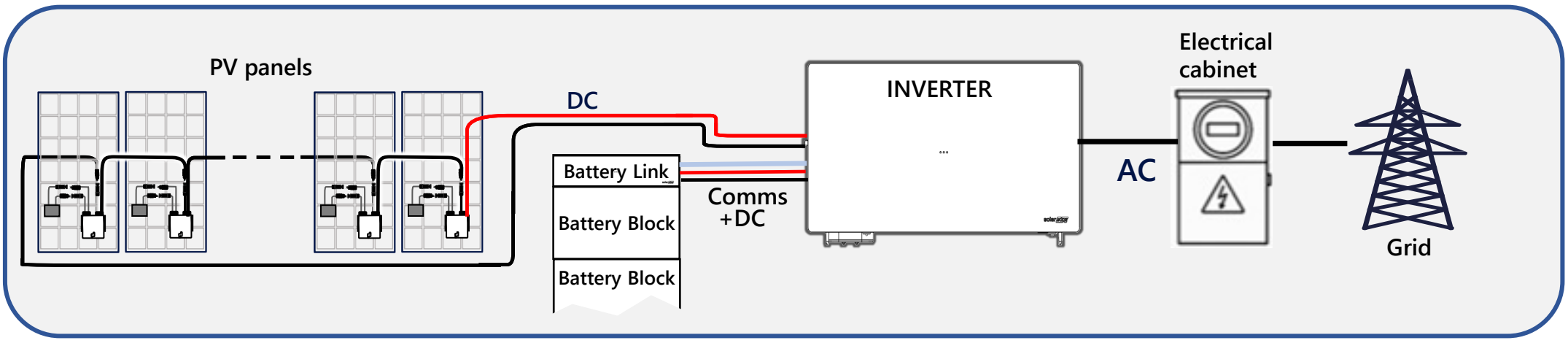


2.1.5 Wiring the inverter

Wire the DC from PV to the inverter and the AC between the inverter and the electrical cabinet as per Section 1.3 .

⚠ NO Battery wiring is required!!

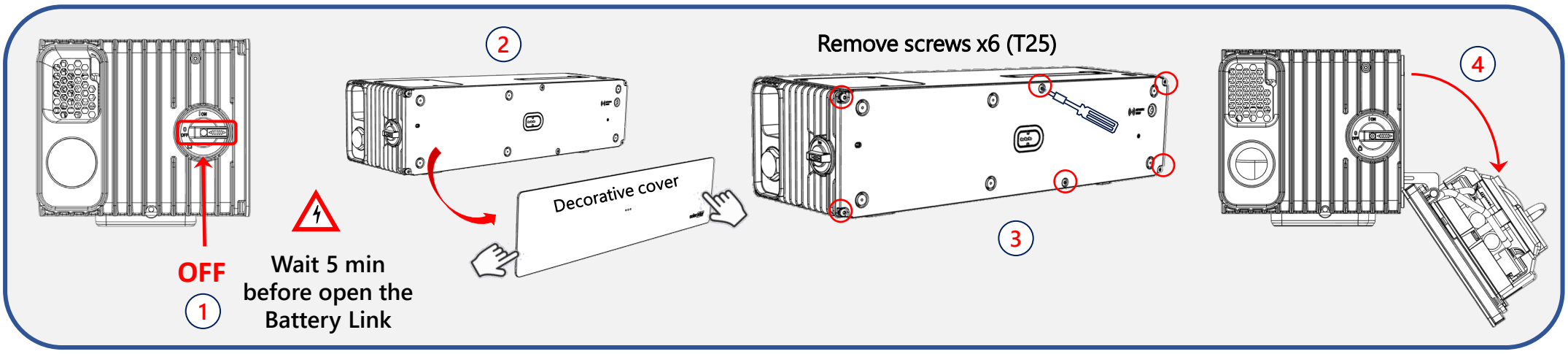
2.2 STAND-ALONE INVERTER



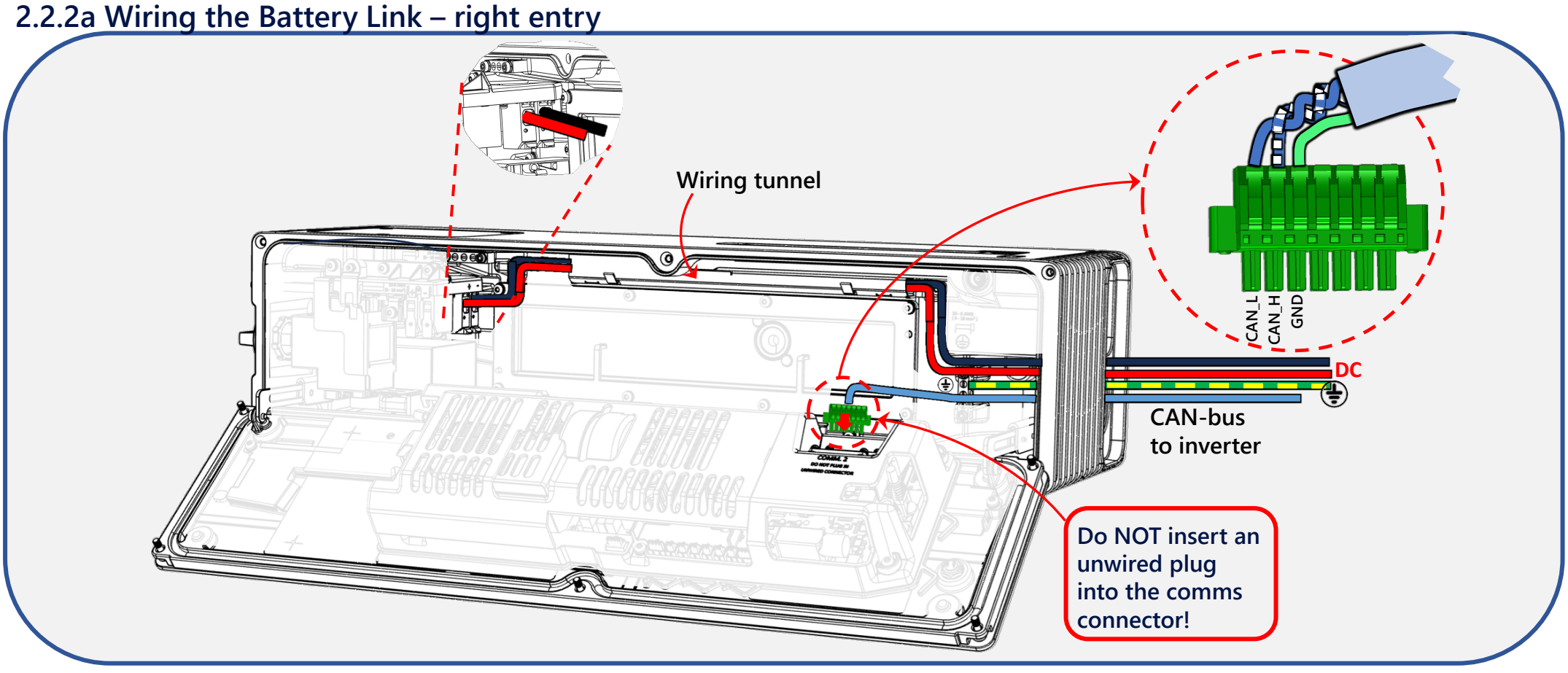
2.2.1 Building the Battery

Build the Battery according to 2.1.1, 2.1.2, and 2.1.3

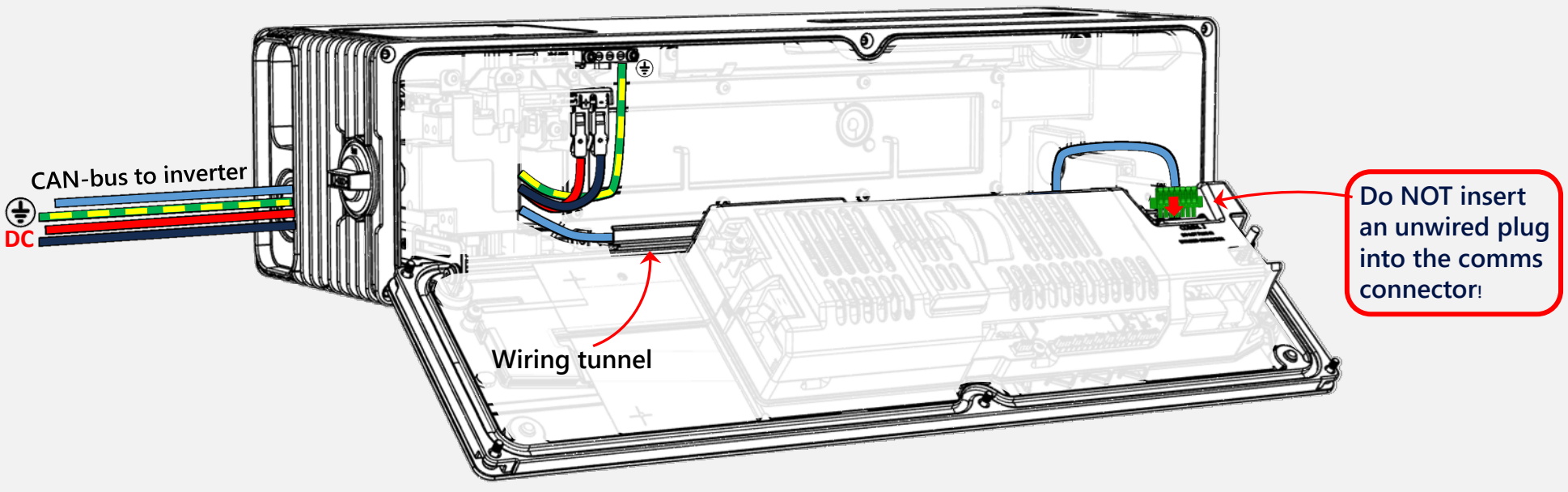
2.2.1 Opening the Battery Link



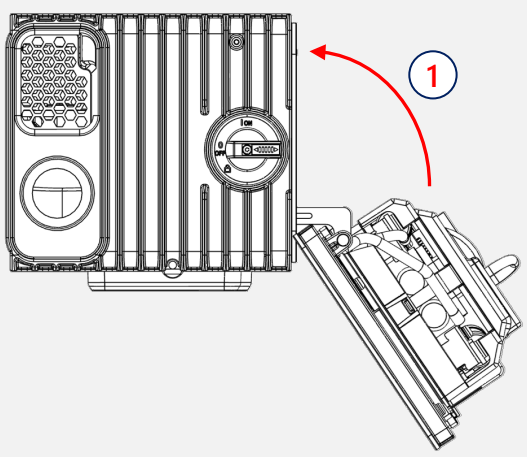
2.2.2a Wiring the Battery Link – right entry

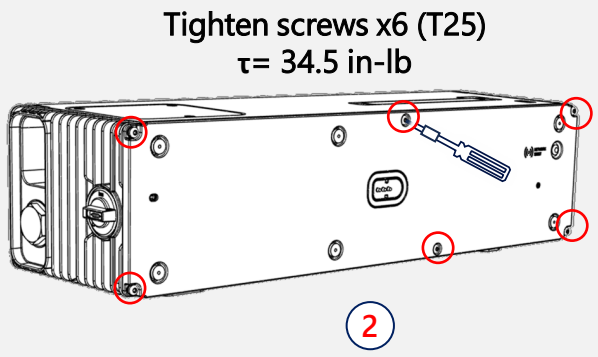


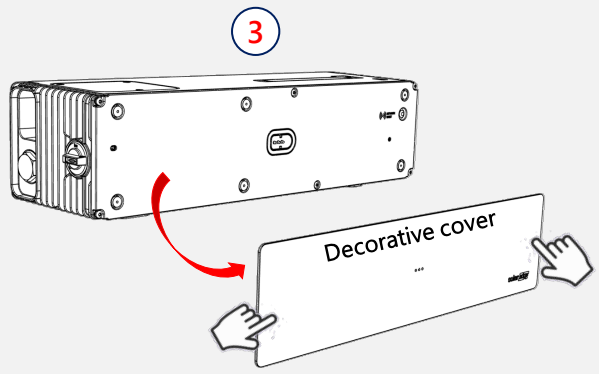
2.2.2b Wiring the Battery Link – left entry



2.2.3 Closing the Battery Link



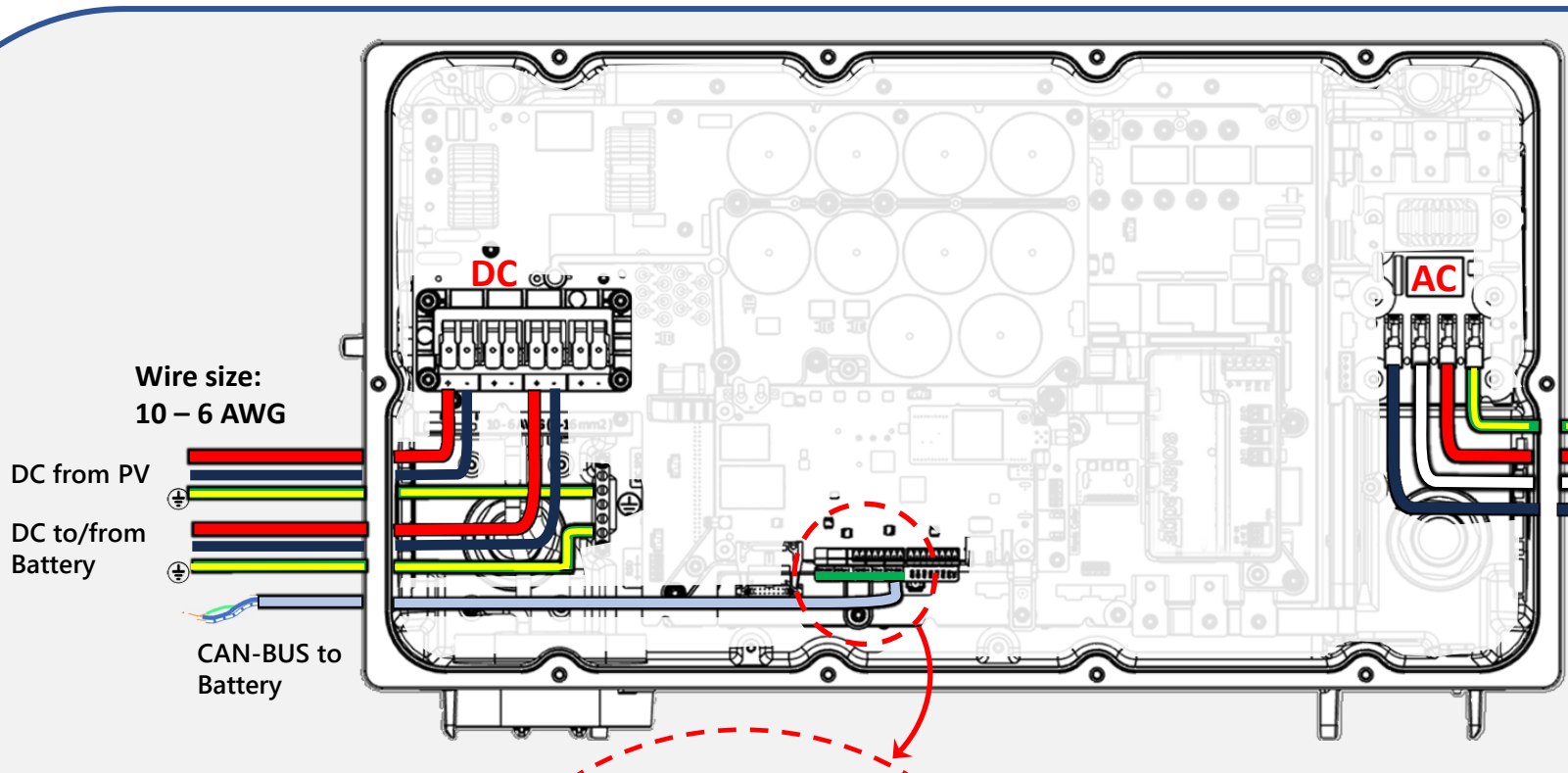




2.2.4 Removing the inverter covers

Refer to Section 1.2

2.2.5 Wiring the inverter

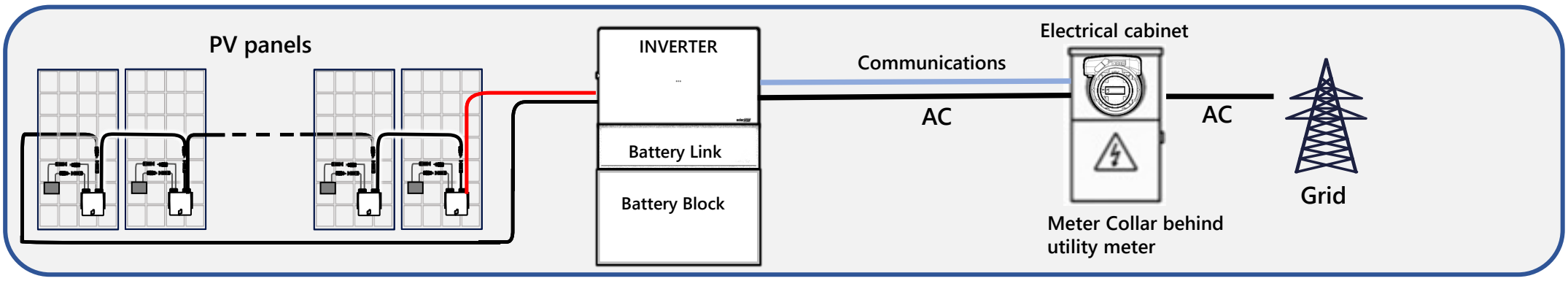


2.2.4 Refitting the inverter covers

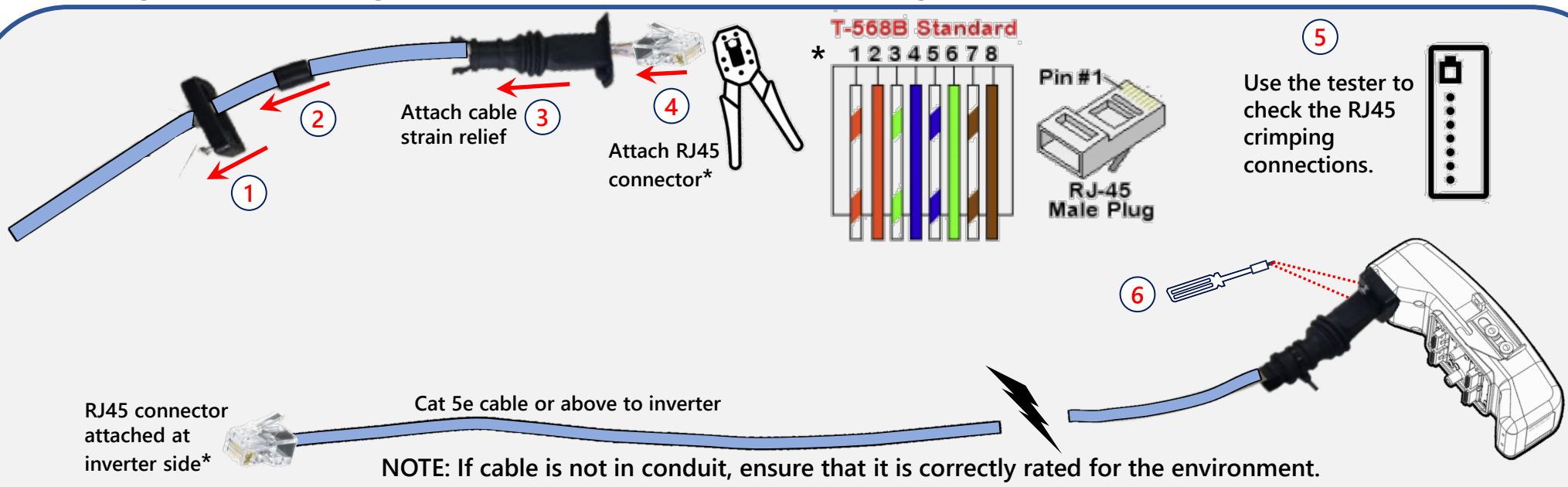
Refer to Section 1.6

3. STORAGE WITH BACKUP SYSTEM

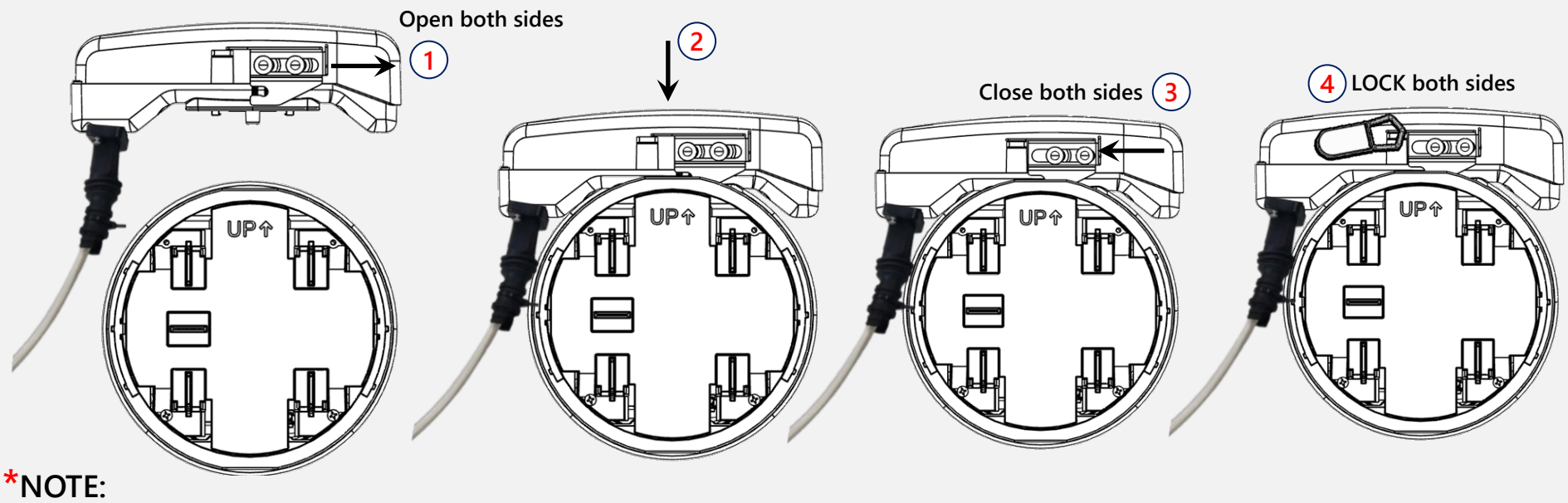
3.1 Meter Collar installed directly behind utility meter inside the electrical cabinet



3.1.1 Wiring and connecting the communications cable to the digital part of the meter collar:



3.1.2 Connect the digital adapter to the meter collar



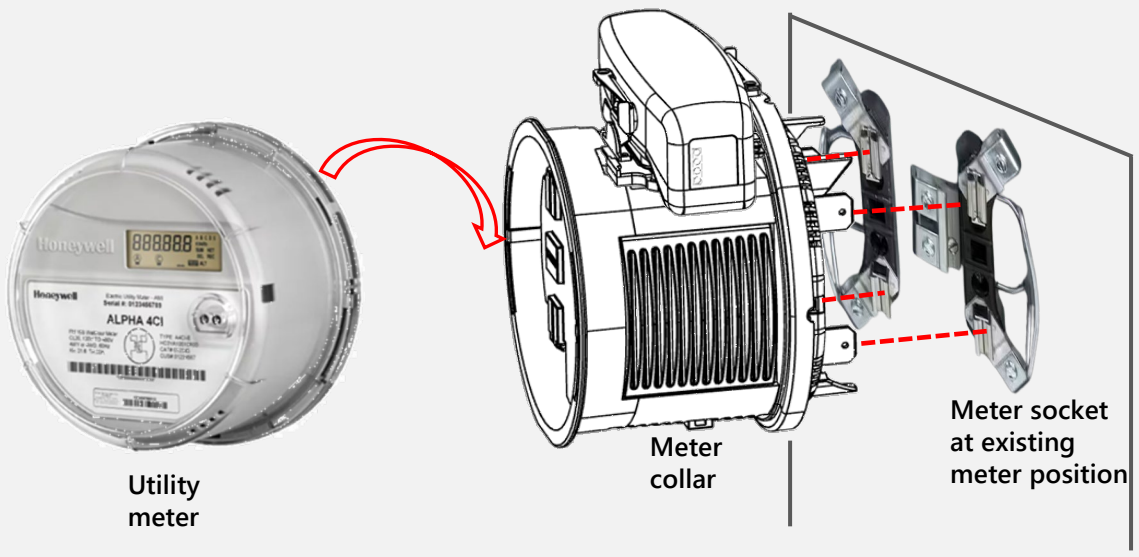
*NOTE:

The digital adapter can be connected to the meter collar with the comms cable either on the left or the right side of the meter collar.

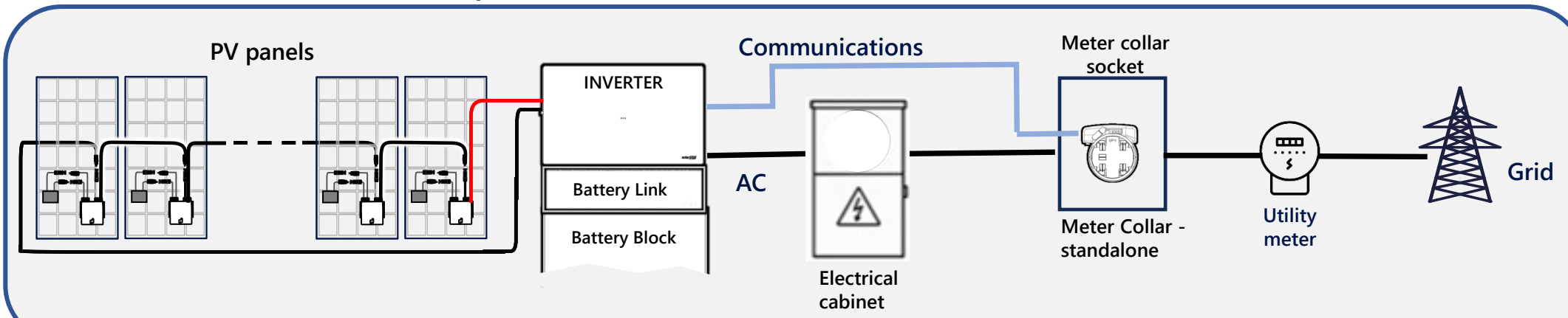
3.1.3 Install the meter collar behind the utility meter

⚠ *NOTE:

1. Only qualified and authorized personnel may handle the utility meter and install the meter collar.
2. For detailed panel installation instructions, see the SolarEdge Nexis IslandDER full installation manual.



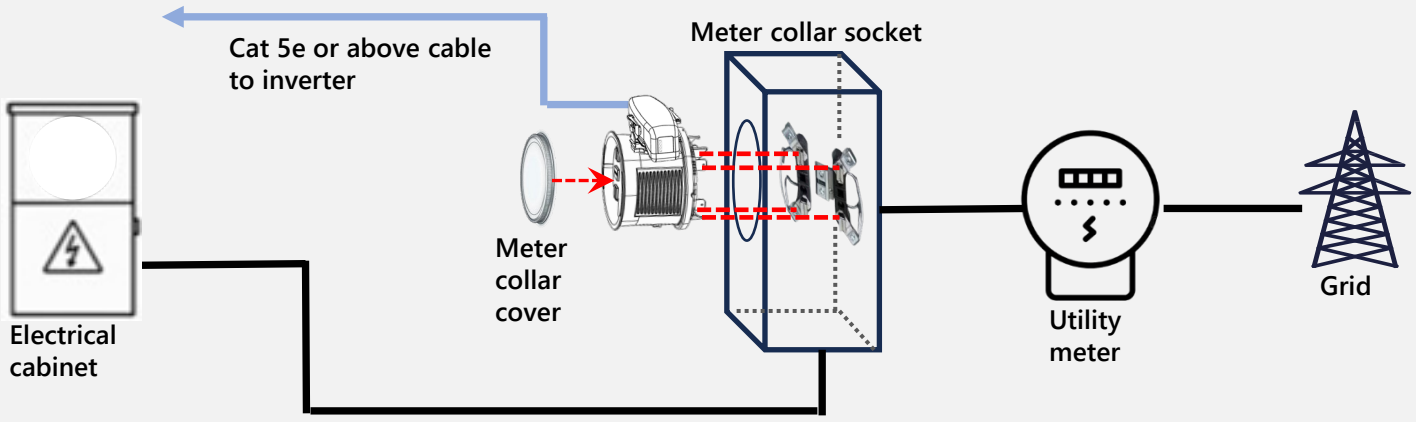
3.2 Meter Collar installed on a separate meter socket



3.2.1 Prepare the meter collar for installation

Prepare the meter collar for installation according to Sections 3.1.1 and 3.1.2

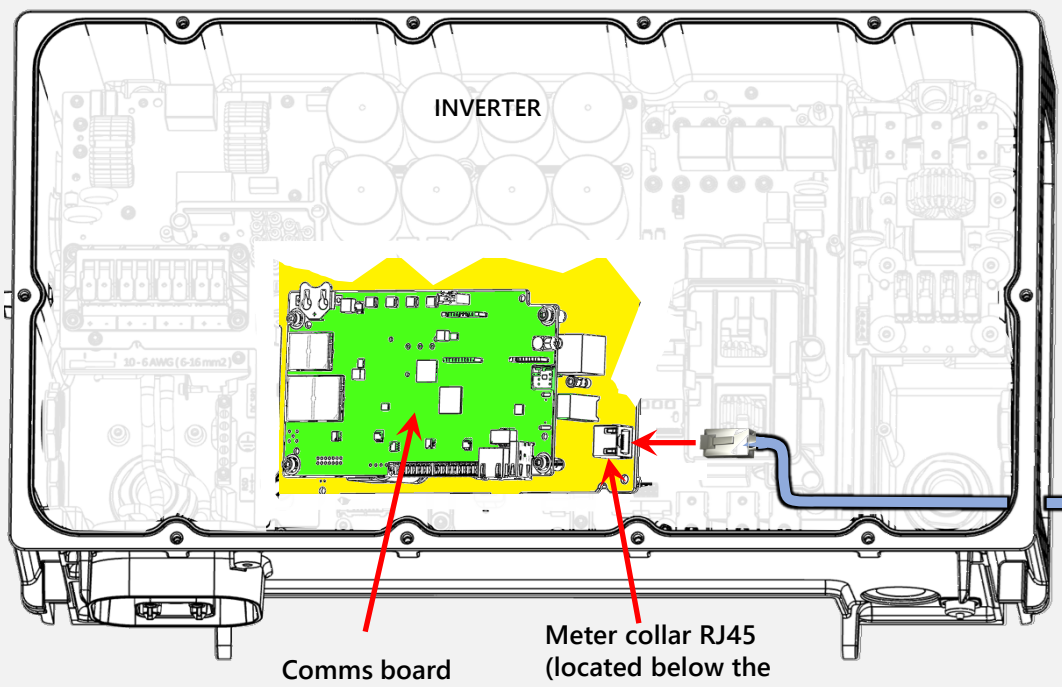
3.2.2 Meter Collar installed on a separate meter socket

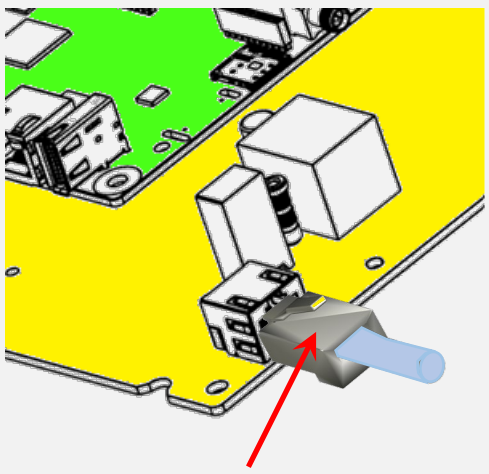


*NOTE:

Meter collar socket and the meter collar cover are bought separately.

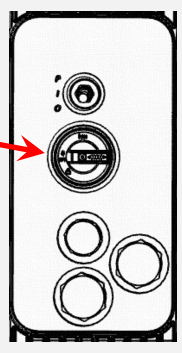
3.3 Wiring the Meter Collar communications to the Inverter

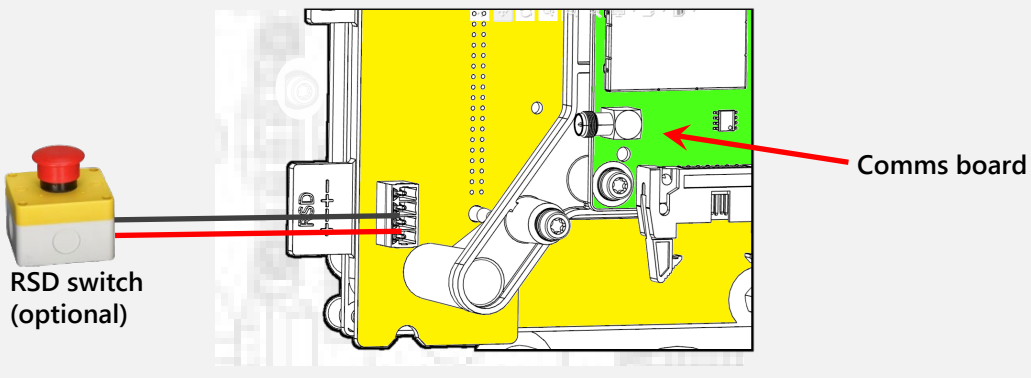




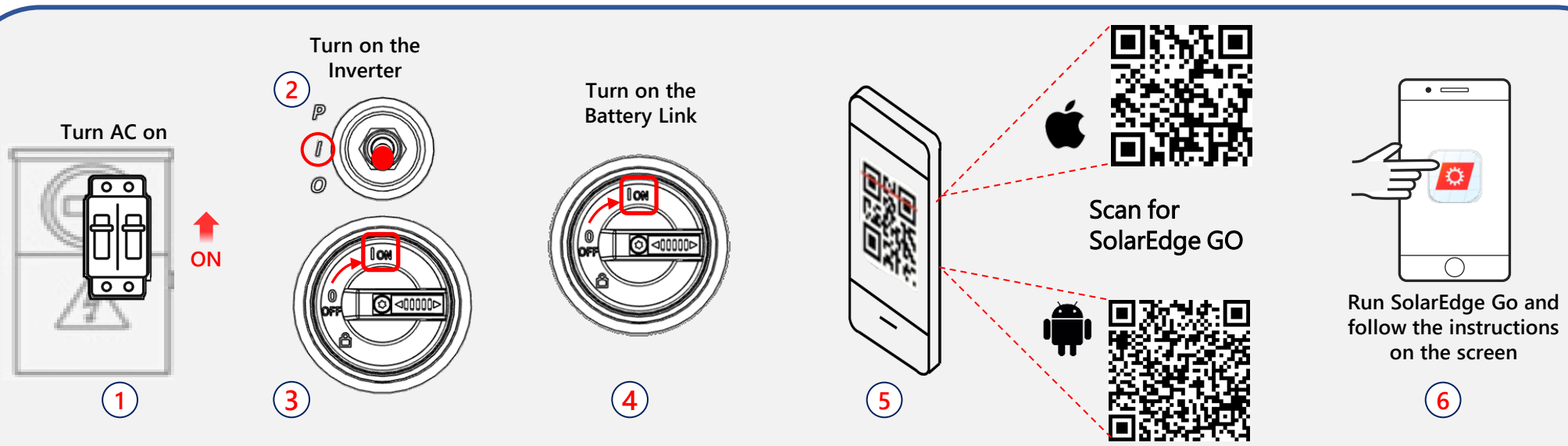
3.4 Wiring a Rapid Shutdown switch to the Inverter (optional)

⚠ The DCD on the side of the Inverter also functions as a Rapid Shutdown switch

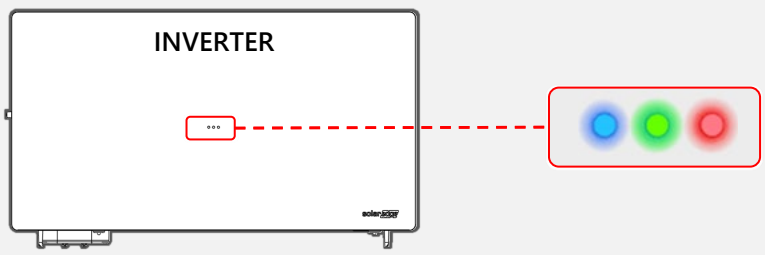




4. COMMISSIONING THE INVERTER



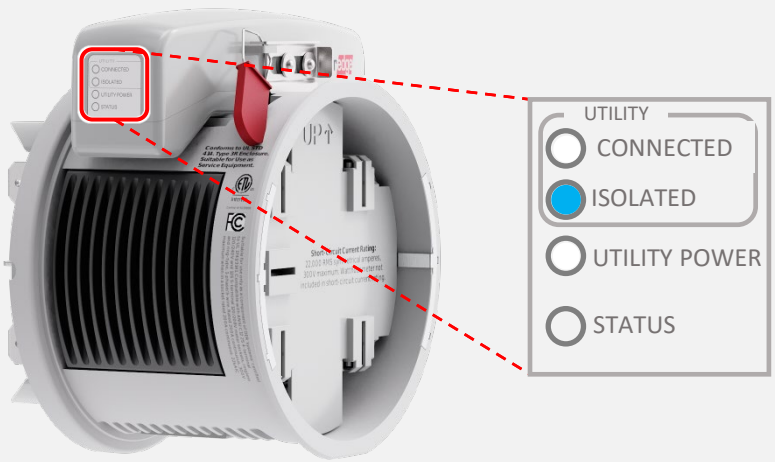
5. LED INDICATORS



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

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

METER COLLAR



- Solid White: Utility Connected
- Solid Blue: Utility Isolated

- Solid White: Grid Power available. If grid power in unavailable or meter collar is out of panel, LED is OFF.
- Blinking green: getting ready to operate / Solid Green: ready to operate
- Solid or Blinking Red: Fault