CSS – OD / 107 kWh
Grid-tied / Backup Commercial Energy Storage Solution

Model CSS-OU-107 with PCS030B or PCS050B

Quick Installation Guide

Version 1.2.7

For Europe

General

Symbols

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

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

This symbol indicates that this is the Protective Earth (PE) terminal that must be firmly grounded to ensure the safety of operators.

Video

Watch available videos on YouTube

Safety

WARNING: RISK OF ELECTRIC SHOCK
DO NOT touch the wires, contacts, terminals, or any conductors connected to the grid circuit inside the equipment.
Failure to follow safety instructions could result in severe injury or death from electric shock.

WARNING: LETHAL HIGH VOLTAGES exist inside the product.
- Note and abide by all warning signs on the product.
- Observe the safety precautions listed in this manual and other related documents.

WARNING: Damaged Equipment Hazards
- Damaged equipment or system failure may cause electric shock or fire!
- Perform an initial visual inspection of the equipment for damage or other hazards before operation.
- Check whether other external devices or circuit connections are secure.
- Confirm that this equipment is in a safe state before operating it.

WARNING: This equipment must be installed by **licensed electrician** and qualified personnel only. The installation and wiring of this equipment must comply with all applicable national, state/provincial, local electrical codes and standards. Attempting installation by unqualified individuals could result in unsafe operation, code violations, personal injury/loss of life, or damage to the equipment.

WARNING: Battery Protection
DC HIGH VOLTAGE! ELECTRIC SHOCK HAZARD!
The battery in the system generates a high voltage when connected. Accidental contact can result in electric shock or life-threatening injuries.

WARNING: Ground Fault Safety Warning
If a ground fault occurs in the Battery Inverter, high voltage may appear on components that are normally not energized. **Accidental contact with these components can cause serious injury or death**.
Before Operating the system
- Check for ground faults: Ensure the system is free of any ground faults.
- Apply protective measures: Implement all required safety precautions before starting operation.

A ground fault can make normally safe parts dangerously live. Always verify system integrity and follow safety protocols to protect yourself and others.

WARNING: Live Line Measurement
- There are high voltages in the equipment in the integrated Battery Inverter, and accidental touch may cause fatal electric shock hazards.
- During live measurement, take appropriate protection, such as wearing insulating gloves.
- There must be an accompanying person to ensure personal safety.

WARNING: Improper parameter settings
- Improper parameter settings may affect the normal function realization of internal devices.
- Only authorized professionals can set the parameters.

WARNING: Regulatory Compliance
The installation and various operations of the integrated PCS must comply with the relevant standards and regulations of the country/region where the project is located.

WARNING: The inverter should not be directly connected to life support equipment or medical equipment.

Tools & Equipment Requirement

Personal Protective Equipment


Safety Rubber Shoes


Helmet


Rubber Gloves


Safety Clothing


Goggles

Required tools for Battery Cabinet 107 kWh & Battery Inverter

WARNING! Use only insulated tools


Torque wrench with 7mm, 10mm, 16mm, 17mm, 18mm, 19mm sockets


Wire Cutter


Crimping tool


Phillips screwdriver M4, M6, M10 L= 230 mm


Heat gun



Multimeter (≥ 1000 V_{DC})


Cable Stripper


Wire Stripper


Drill (⌀10 mm drill)


Box Cutter


Pipe Cutter


Ladder


Rubber Hammer

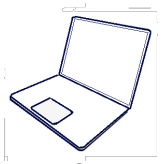

Slotted Screwdriver (10 mm slot)


Slotted Screwdriver for Terminal Block Screws (2 mm slot)

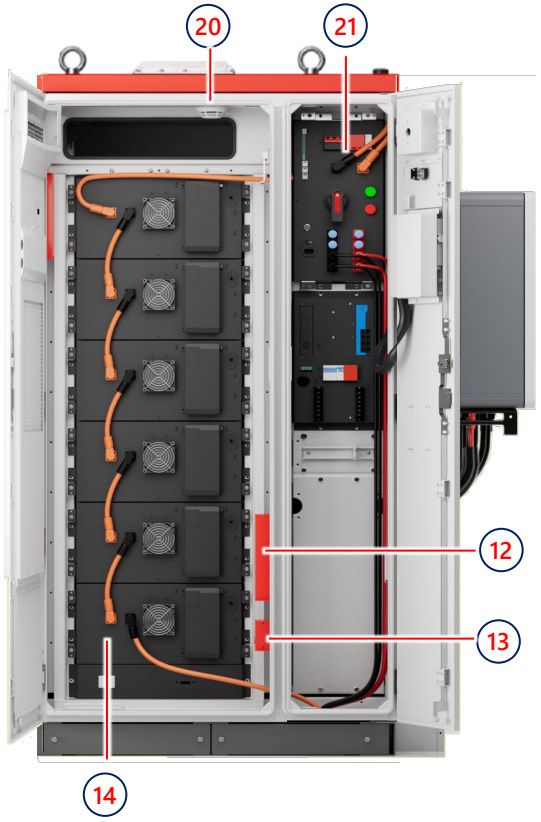

Adjustable Wrench


Open-end torque wrench


32GB Flash Drive


Laptop Computer







1. Exhaust Valve
2. Pressure Relief Panel
3. Four Eye Bolts
4. Acoustic-Visual Alarm
5. Emergency Power Off (EPO) Switch
6. CSS Local Interface Display (EMS)
7. Heating, Ventilation, and Air Conditioning (HVAC)
8. Door Lock
9. Nameplate
10. DM65 Fire Fighting Valve
11. Wiring Duct (optional)
12. Aerosol Fire Extinguisher 1
13. Fire Suppression Control Box
14. Energy Module (x6)
15. Battery Inverter
16. Wiring Duct
17. Intake Valve (on back side of cabinet)
18. Aerosol Fire Extinguisher 2
19. CO Detector
20. Smoke Detector
21. Battery Management System (BMS)

Dimensions and Weights

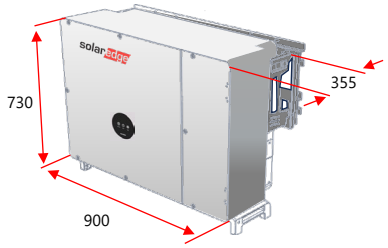
Battery Cabinet 107 kWh



1435 KG

Battery Inverter 30/50 kW

*Without a mounting bracket



93.3 KG

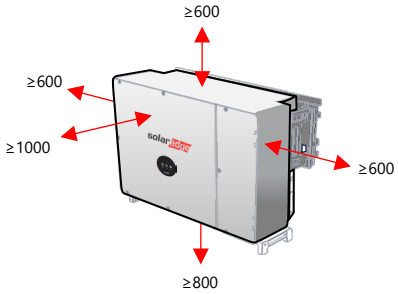
Battery Inverter 30/50 kW
Battery Cabinet 107 kWh

*Assembled dimensions with mounting a bracket



1528.3 KG

All dimensions are in [mm]



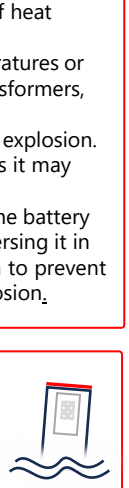
Default Layout & Clearance Distances (Top & front view)

All dimensions w/o units are in [mm]

CAUTION! Cables should be positioned at least 30 mm away from heating devices or the periphery of heat source areas.

- Do not expose the battery to high temperatures or heating devices such as sunlight, fire, transformers, heaters, etc.
- Overheating of the battery can lead to an explosion.
- Burning the battery is strictly forbidden, as it may cause an explosion.
- Disassembling, modifying, or damaging the battery (such as inserting foreign objects or immersing it in water or other liquids) is strictly forbidden to prevent battery leakage, overheating, fire, or explosion.

WARNING! To avoid flood damage and safety hazards, the cabinet must be installed on a concrete platform with a minimum height of 300 mm.



NOTES!

- Local codes and regulations could extend the required clearances beyond what is specified in this manual
- Before proceeding with installation, consult with relevant authorities to ensure compliance with local regulations concerning clearance distances.

Environmental Conditions & Requirements

CAUTION

1. The installation, use, and operation of outdoor equipment and cables, including but not limited to the movement of equipment, operation of devices and cables, connection or disconnection of signal interfaces exposed to outdoor conditions, and work at heights. Outdoor installations are strictly prohibited during severe weather conditions such as lightning, rain, snow, or high winds.
2. Avoid installing the equipment near underground facilities like underwater pipes and air outlets or in places prone to condensation. Additionally, steer clear of areas susceptible to water leakage, such as around air-conditioning outlets, vents, and outlet windows in the machine room. This will help prevent liquids from entering the equipment and causing malfunctions or short circuits.
3. Avoid installing the equipment in areas with poor geological conditions, such as rubbery or weak soil, waterlogged ground, or regions susceptible to land subsidence. When installing in a sandy environment, increase the frequency of routine maintenance for the battery vent and HVAC systems: perform a visual inspection weekly and clean as needed based on observed conditions.
4. Do not place the equipment or operate it in a flammable environment or an environment that contains explosive gas or smoke.
5. Avoid installing the battery cabinet in sandy environments.
6. Avoid installing the battery cabinet on unstable or vibrating foundations.
7. Do not install the battery cabinet in a working environment with metal conductive dust.
8. When the equipment is running, do not cover the vents or heat dissipation system to prevent fire due to high temperature.

CAUTION! For indoor installations, a ventilated room is required.



CAUTION!
CSS – OD solution must be installed >2 km from the sea when installed in an outdoor location, or >1 km when installed in an indoor location. Enclosure must be sealed from any salt-containing air. Heat rejection must be achieved via a refrigerant-based (split/mini-split) cooling system, sized to the total heat dissipation of all installed devices plus enclosure heat gain, with adequate margin.





NOTE Battery Cabinet & Battery Inverter max noise is <65 dBA @ 1 meter distance.



CAUTION! When Installed in indoor locations consider heat dissipation values of all installed devices when choosing appropriate room / space for their installation.

Battery Cabinet	
Max Power	**Heat Dissipation**
50 kW	~0.87 kW (2970 BTU/h)
30 kW	~0.87 kW (2970 BTU/h)
Battery Inverter	
Max Power	**Heat Dissipation**
50 kW	~1.35 kW (4606.2 BTU/h)
30 kW	~0.75 kW (2559 BTU/h)

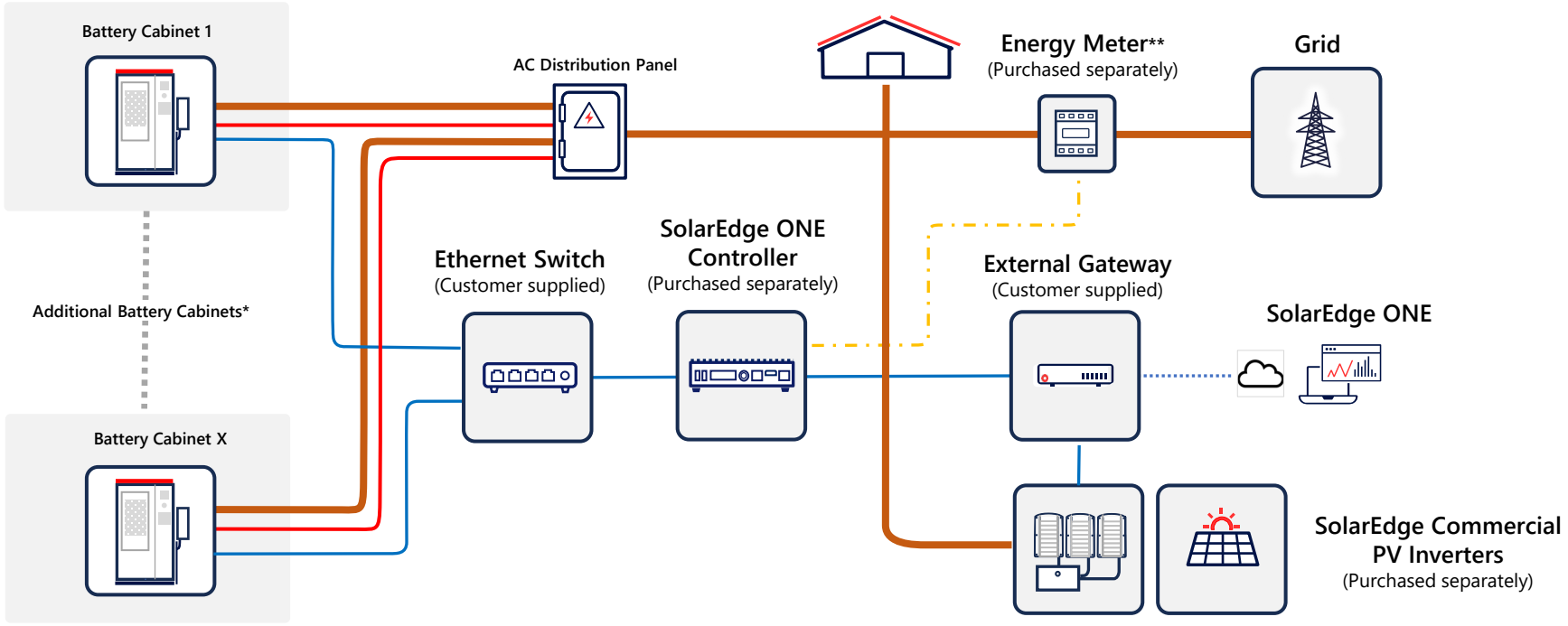
IMPORTANT NOTE!

1. Communication cables and power wires **must** be laid separately (DC and AC loops).
2. The distance between control/communication and power cables must be greater than 300mm.
3. In cases when control cables cross power cables, validate that the angle between the two cables is kept at 90°.
4. The recommended minimum distance between parallel shielded data cables and power cables is shown below:

Parallel length (m)	Min space distance (m)
200	0.15
300	0.5
500	1.2

Grid-tied Site - Power & Communication Solution

IMPORTANT NOTE: The battery cabinet requires an active internet connection for commissioning and monitoring. Before installing the battery cabinet, verify that the **Internet service is reliable**.
Do not connect the battery until connectivity is confirmed.
Failure to do so may result in commissioning failure, loss of monitoring, missed alerts, or warranty issues.

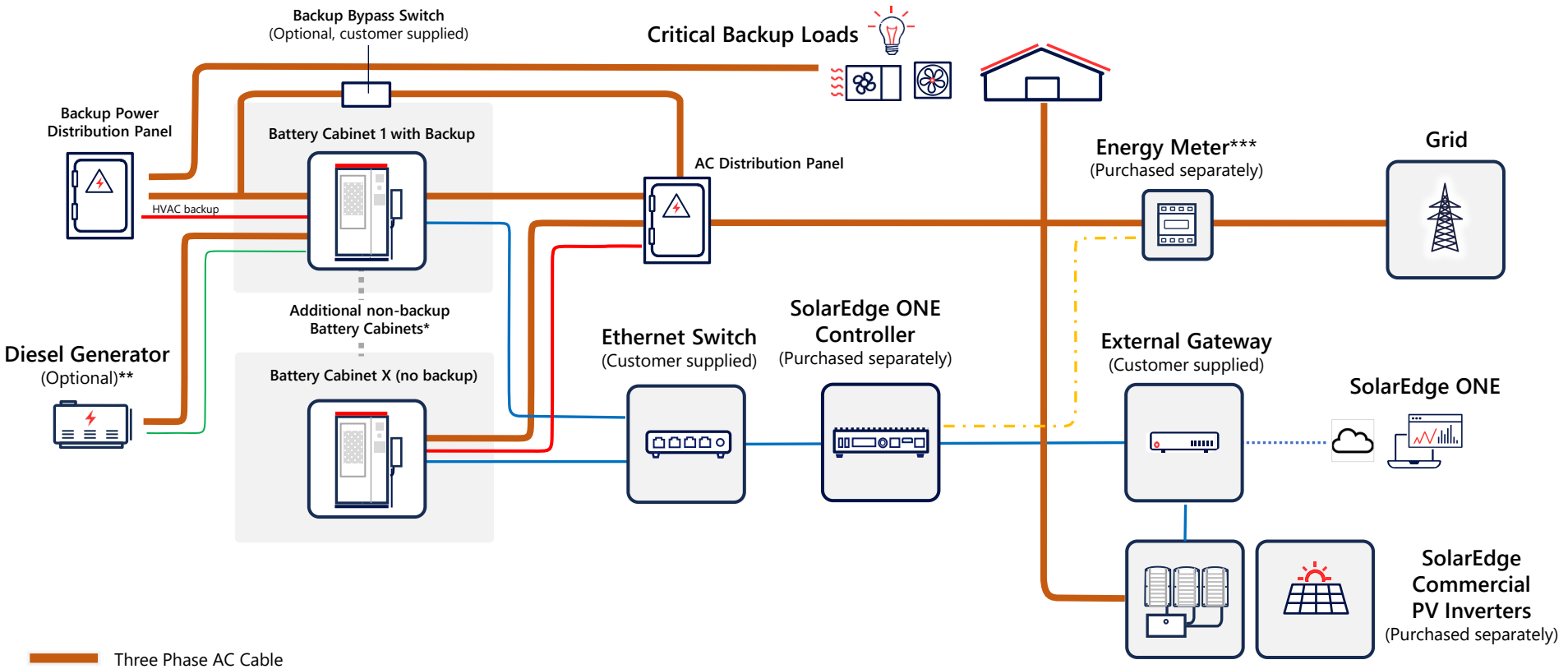


Three Phase AC Cable
Single Phase Auxiliary AC Cable (not provided)
Modbus TCP Communication Cable (LAN)
RS485 Comm. Cable (not provided)

* Up to 20 Battery Cabinets supported.
** Use the SolarEdge SE-MTR-3Y-400V-A Energy Meter or an approved meter.

Grid-tied with Backup - Site Power & Communication Solution

IMPORTANT NOTE: The battery cabinet requires an active internet connection for commissioning and monitoring. Before installing the battery cabinet, verify that the **Internet service is reliable**.
Do not connect the battery until connectivity is confirmed.
Failure to do so may result in commissioning failure, loss of monitoring, missed alerts, or warranty issues.



Three Phase AC Cable
Single Phase AC Cable for HVAC (not provided)
Modbus TCP Communication Cable (LAN)
RS485 Comm. Cable (not provided)
Dry Contact Cable (not provided)

*Support for up to 20 Battery Cabinets (including a single Backup Battery Cabinet) is planned.

**The diesel generator option will be enabled in a future release.

*** Use SolarEdge SE-MTR-3Y-400V-A Energy Meter or approved meters only.

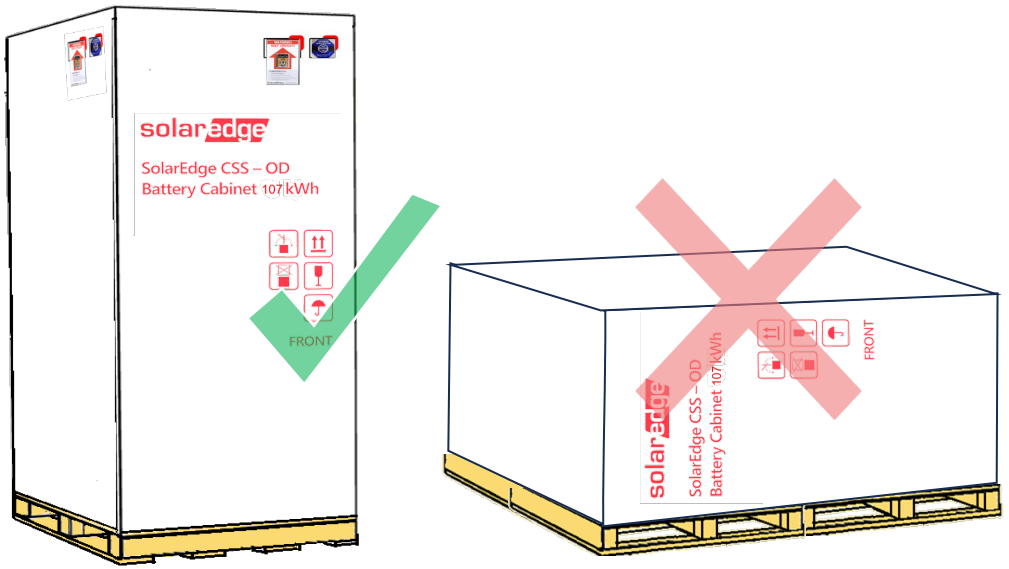
Handling and Inspecting Before Unpacking

NOTES:

- Keep in upright position 
- Before opening, validate package integrity

IMPORTANT: Do not open damaged packages.
Contact SolarEdge to review the case.

NOTE: For SolarEdge commercial Battery storage and transportation guidelines refer to: https://knowledge-center.solaredge.com/sites/kc/files/se-commercial-battery-storage-transportation-and-storage-guideline-107kwh-eng.pdf



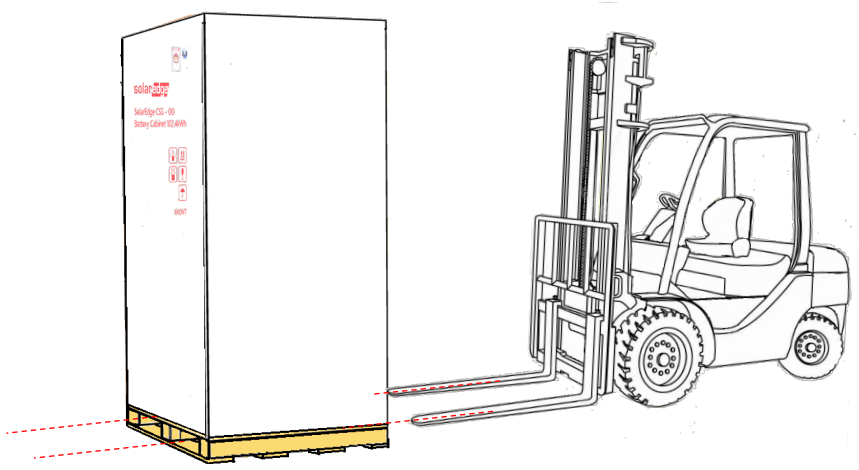
NOTES: For Battery Cabinet Package

- Verify that the shock and tilt label sensors, on the front and right sides of the package, show green indication.
- When opening package, check the integrity of the fire safety solution. If aerosol gas was ejected due to any fault occurred during transportation the battery cabinet shall be replaced.
- If one of the sensors is red, please contact SolarEdge and do not open the package.

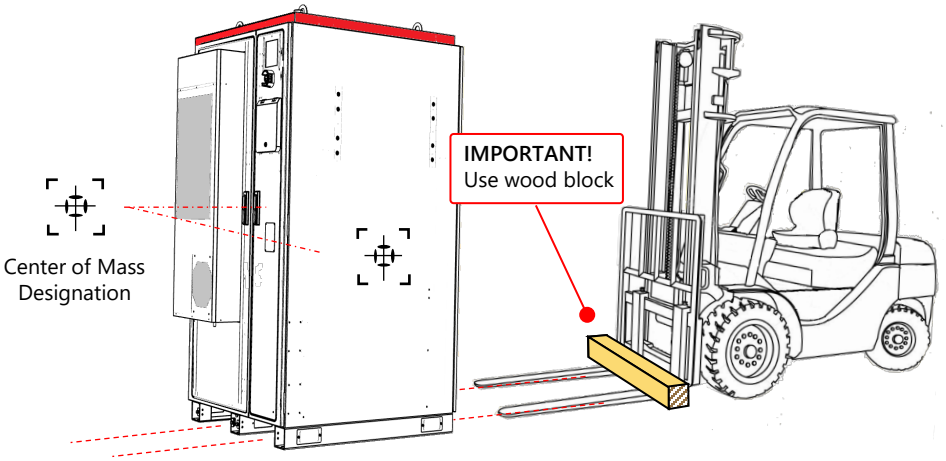


Battery Cabinet Transportation – Forklift Guidelines

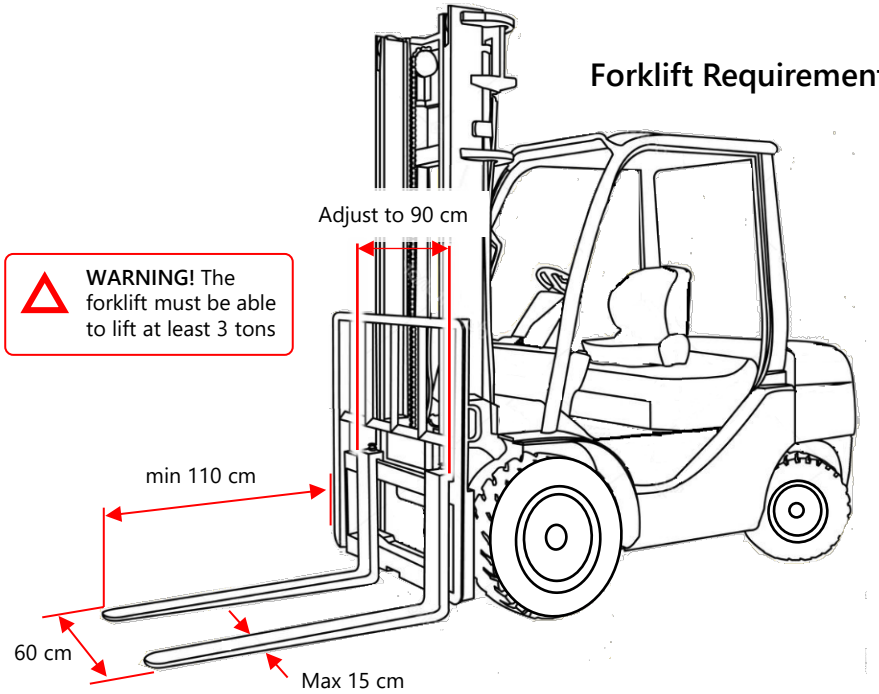
Transporting Battery Cabinet with the Wooden Box

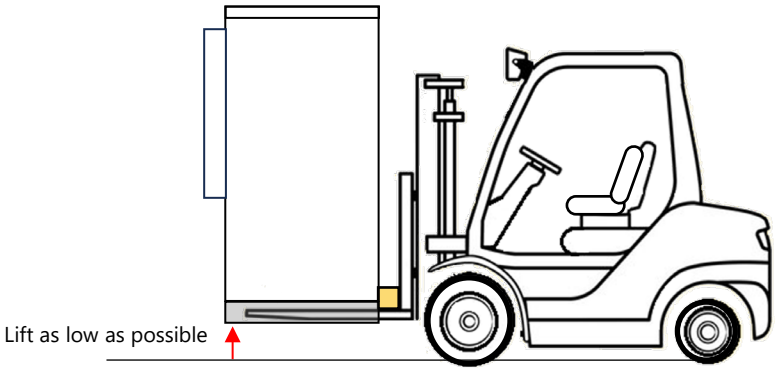


Transporting Battery Cabinet Standalone



Forklift Requirements





Battery Cabinet Transportation – Crane Lifting Guidelines

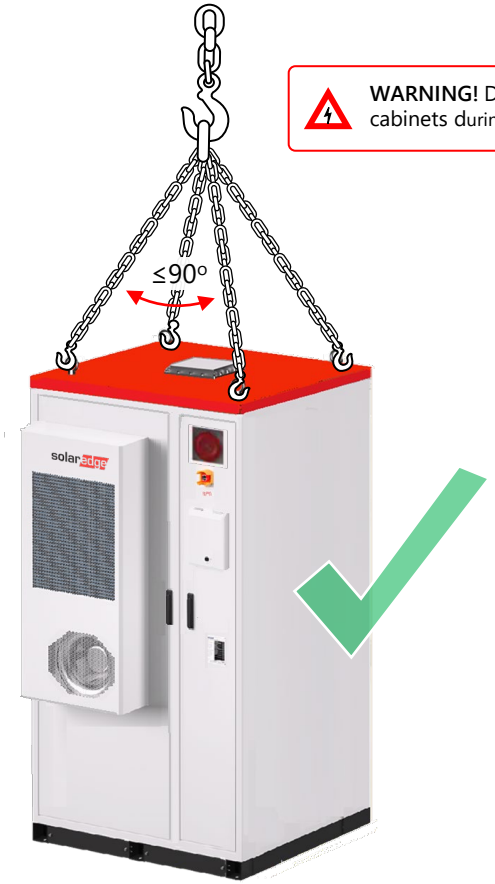
HOISTING REQUIRMENTS

WARNING!

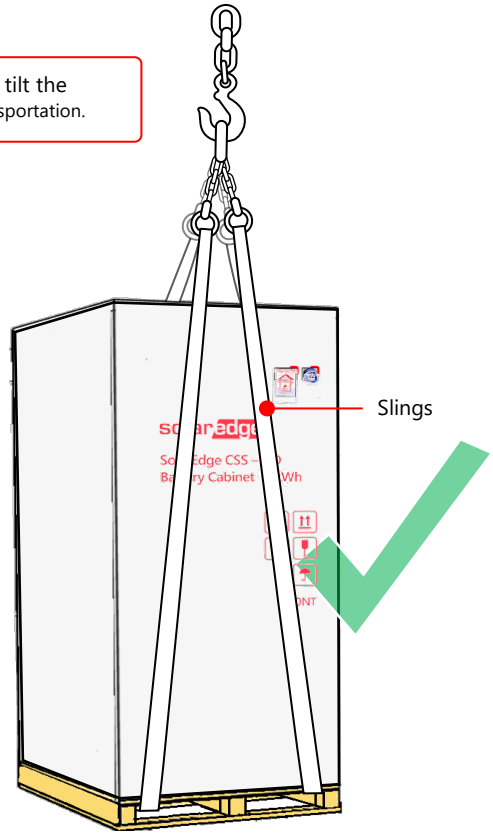
1. A trained and qualified lifting personnel is required.
2. Do not operate a hoist if severe weather or wind is apparent when conducting hoisting outdoors.
3. Keep unauthorized people from entering the area and standing under crane boom.
4. Ensure that the crane and slings meet the load-bearing requirements.
5. To prevent the cabinet from scratching, do not drag it when installing and removing hoisting equipment.
6. Check to ensure that the hoisting tools are in good condition.
7. Ensure that all the doors of the equipment are closed and locked during transportation.

Standalone Battery Cabinet Crane Transportation

WARNING! Do not tilt the cabinets during transportation.



Packaged Battery Cabinet Crane Transportation



Unpacking Battery Cabinet



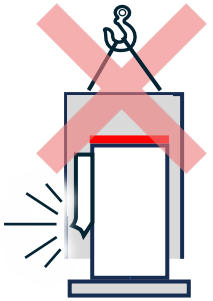
NOTE: Disassembly of wooden box must start from the top side

1 Top

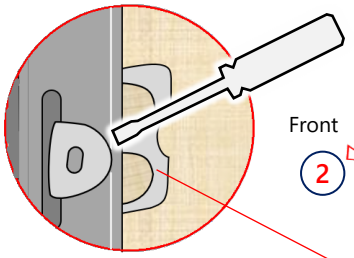
NOTE: Leave protective nylon covering in this area

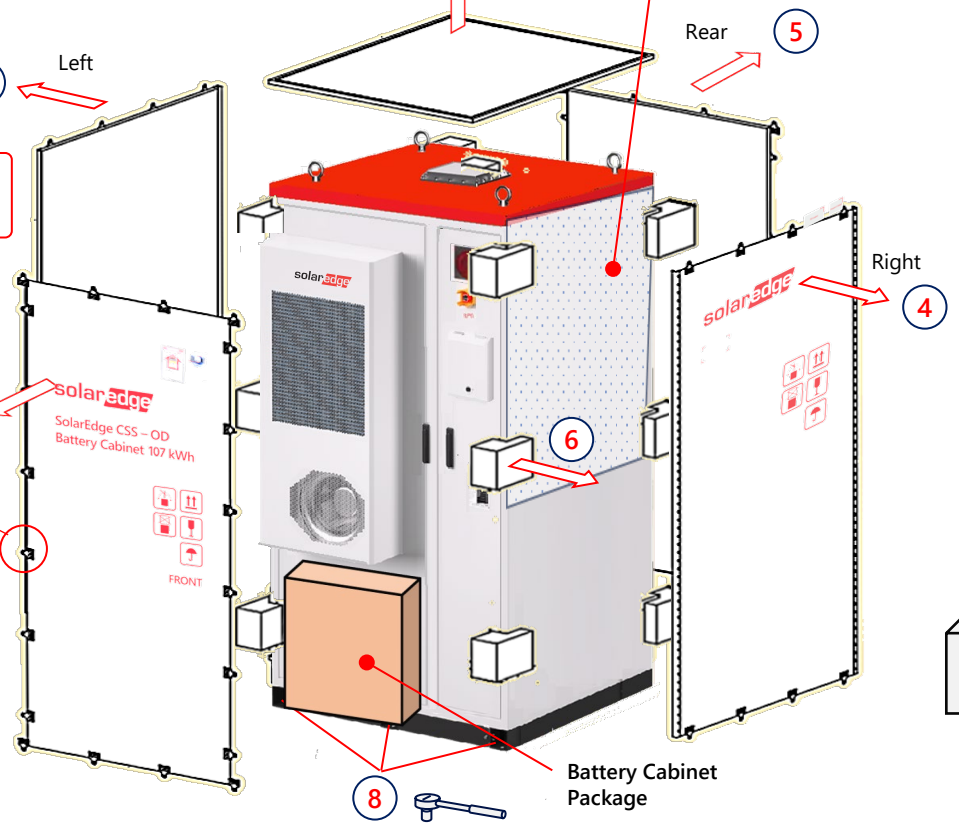
CAUTION! DO NOT REMOVE THE SHIPPING CRATE FROM THE BATTERY CABINET BY LIFTING IT!

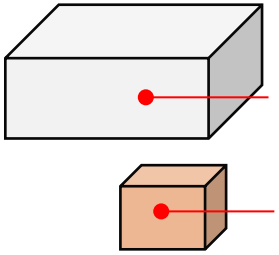
To avoid damage to the battery cabinet, make sure it is unpacked in the order shown.



NOTE: Use flat head screwdriver to unfold the connecting buckles







Battery Inverter Package

Cabling Package
(See section Part Kits 4-5 for the correct box)

7

NOTE: Remove the screws and nuts securing the cabinet to the pallet using 19 mm socket (x6)

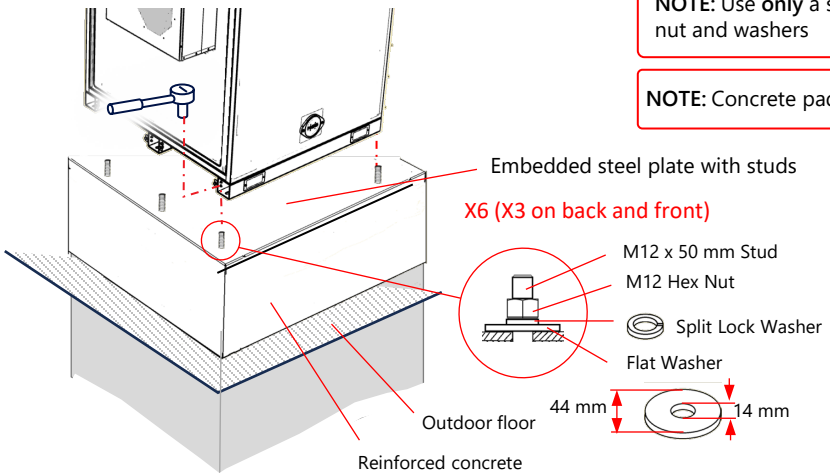
Mounting Battery Cabinet on Concrete Base Platform

Option 1: Unified Concrete Platform Base with Embedded Steel Plate with Studs

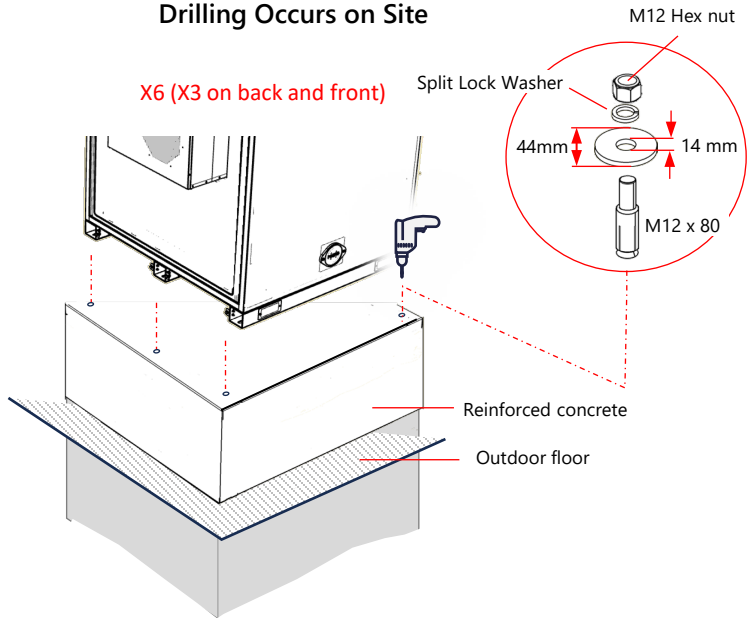
NOTE: Bolts, nuts, and washers are not supplied. Torque depends on the mounting pad. For concrete pads use 60 Nm.

NOTE: Use **only** a stainless steel 12.8 grade nut and washers

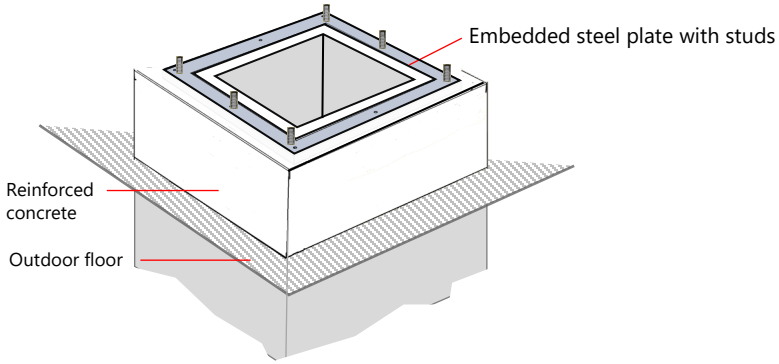
NOTE: Concrete pad guidelines are in Appendix B



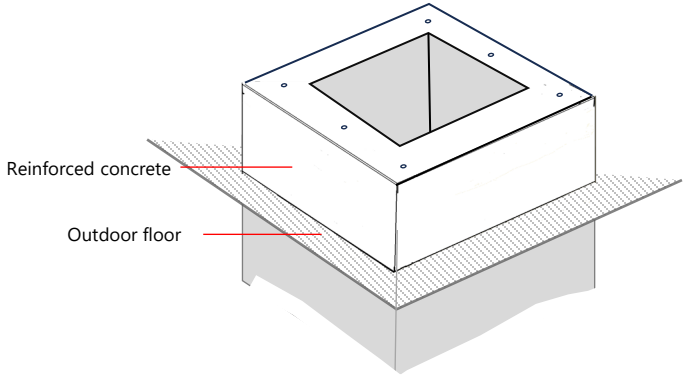
Option 3: Unified Concrete Platform Base with Drilling Occurs on Site



Option 2: Hollow Concrete Platform Base with Embedded Steel Plate with Studs

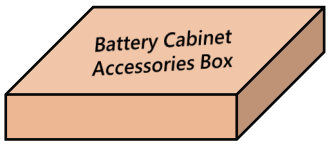


Option 4: Hollow Concrete Platform Base with Drilling Occurs on Site

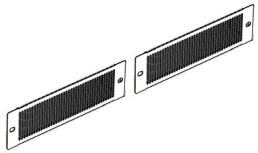


Battery Cabinet Package Contents (Inside Accessories Box)

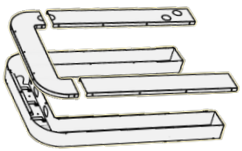
PAY ATTENTION!
All Cables are marked with a designation label



Forklift Slots Covers (x4) (Y)
(Outside Accessories Box)



Battery Cabinet
Wiring Duct (G)

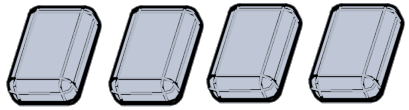


PE cable (0.7m) (E)



Battery Cabinet Package Contents (Inside Battery Cabinet)

Sealant (x4) (H)



Corrugated Plastic Conduit ⌀34.5 mm (I)



Corrugated Plastic Conduit ⌀21 mm (J)

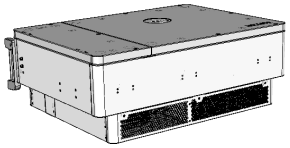


Battery Inverter Package Contents

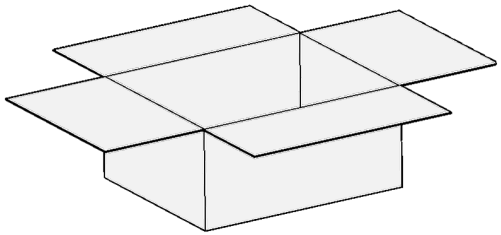
Battery Inverter Mounting Bracket kit (K)



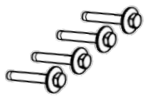
Battery Inverter







Bracket M10 Mounting Bolts (x12 - 8 on cabinet wall) (Q)



Bracket Lock M6 Bolts (x2)(R)



Bracket Assembly Bolts (x4)(P)



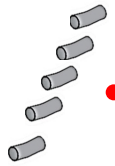
Right-angled Trox Star Allen key



M6 Lugs (x15) (S)



Cables Shrinks (x15) (T)

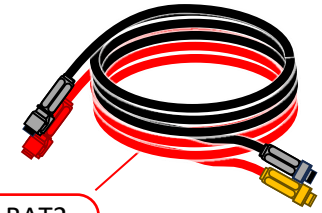


NOTE: These lugs are compatible with class 2 wires. Please ensure you provide your own lugs if class 5 or 6 wires are used on site.

Cabling Package Contents

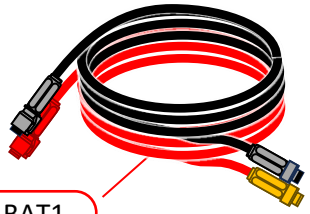
PAY ATTENTION!
All Cables are marked with a designation label

Battery Cabinet to Battery Inverter DC Cables (3m) (B)



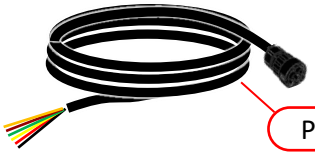
BAT2

Battery Cabinet to Battery Inverter DC Cables (3m) (A)



BAT1

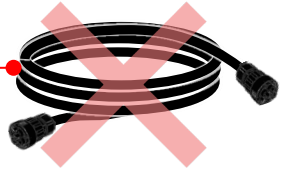
Battery Cabinet to Battery Inverter COM cable (3.5m) (C)



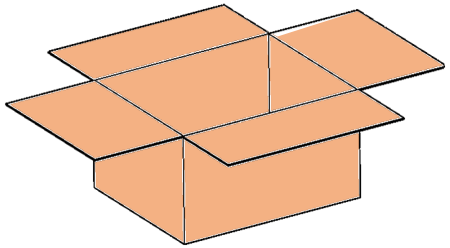
PCS-COM

PCS-PARA1/2 Cable

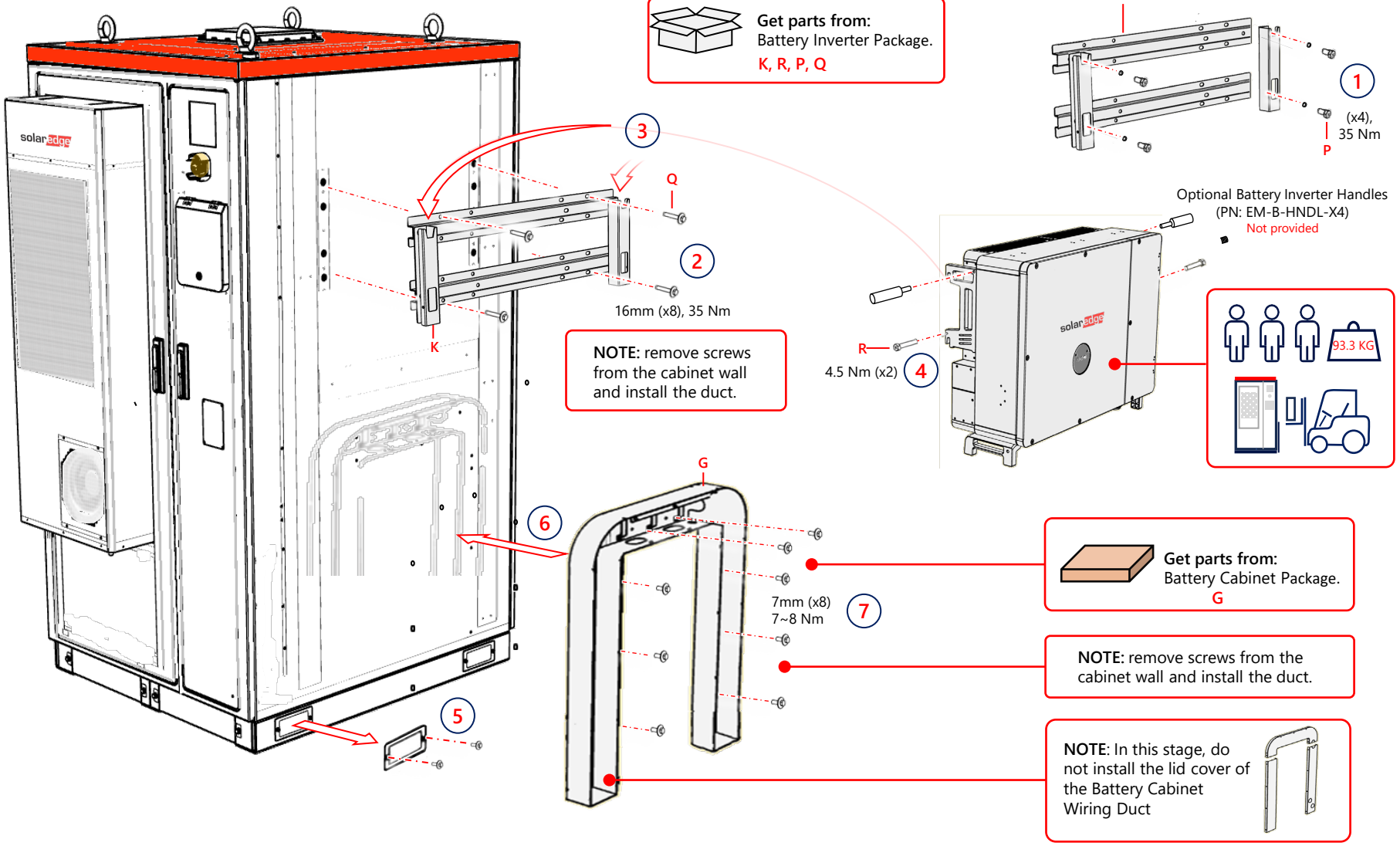
NOTE: THIS PROVIDED CABLE SHOULD NOT BE USED



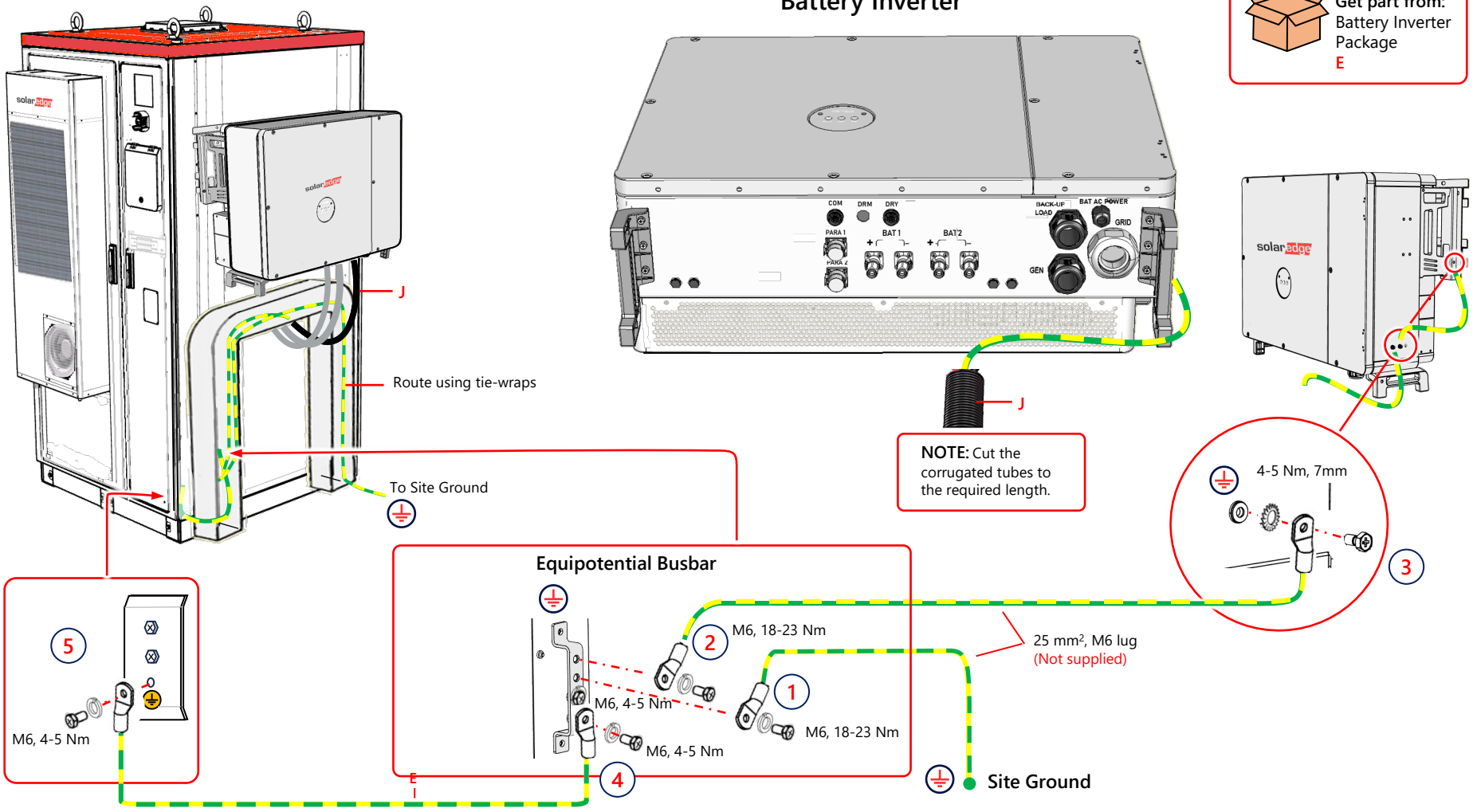
DO NOT USE!



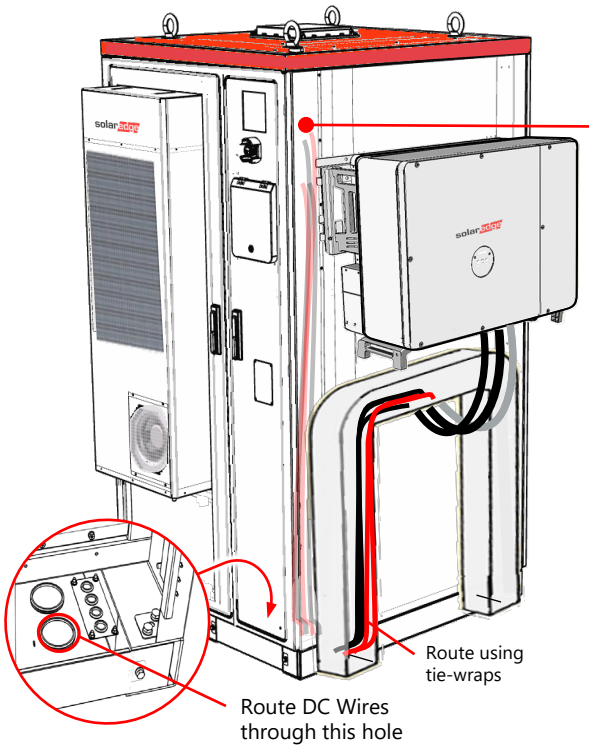
Mounting Battery Inverter onto the Battery Cabinet



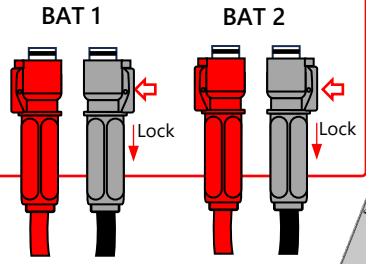
Battery Cabinet & Battery Inverter PE Wiring



Battery Inverter to Battery Cabinet DC Wiring

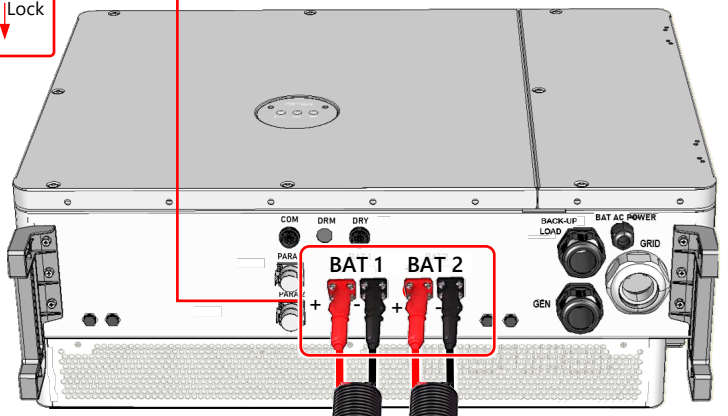


IMPORTANT! Make sure that the locking tabs are in the following positions.

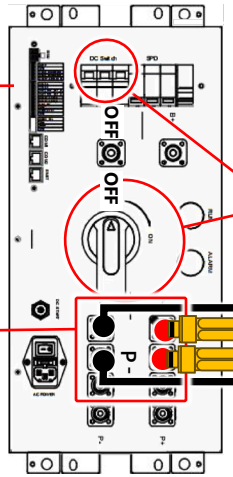


Get part from:
Battery Cabling Package
A, B

Battery Inverter



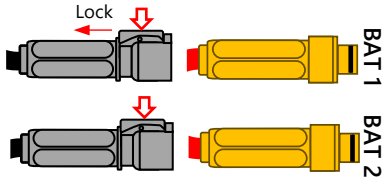
Battery Management System (BMS)



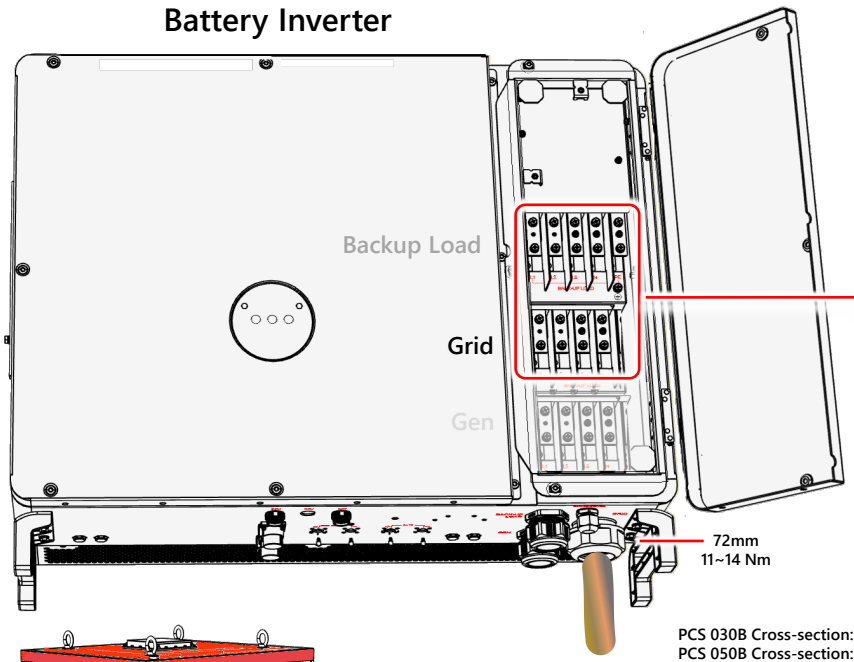
WARNING! HAZARD OF ELECTRIC SHOCK. DISCONNECT POWER BEFORE INSTALLATION OR SERVICE – TURN SWITCHS TO **OFF**

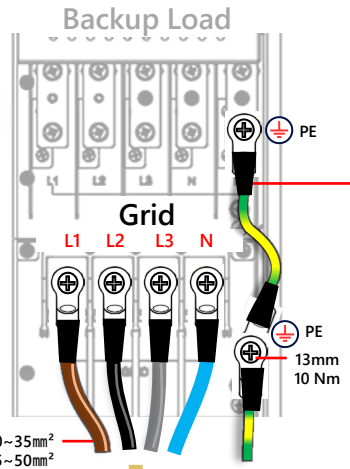
NOTE: Cut the corrugated tubes to the required length.

IMPORTANT! Make sure that the locking tabs are in the following positions.



AC Wiring of Battery Inverter without Backup





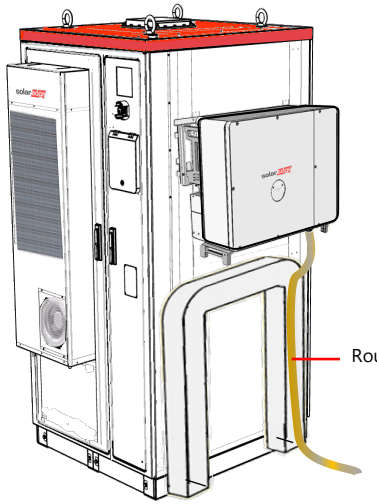
Cable Type	Max Current (per phase)	Wire Cross-section (mm²)	Proposed Diameter (AWG)	Lug size
Grid	44A (PCS030B)	20~35 mm²	2~4 AWG	M6
	72A (PCS050B)	35~50 mm²	2 AWG	M8
Ground		<16 mm²	5~6 AWG	M6

WARNING! To ensure proper and safe grounding, a Ground wire must be connected between the Backup Load and Grid PE terminals.

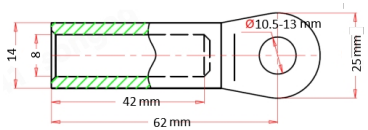
IMPORTANT! It is the installer's responsibility to ensure the installation complies with all local regulations and standards (wiring, safety etc.)

NOTES: Cable properties: (Not supplied)
- Multi-stranded class 5 or 6 flexible **copper** conductors
- Lugs fit class 2 cables. For class 5 or 6, bring your lugs.
- To keep the gland sealed, use 5C or 4C cable type. (3ph+N+PE)

WARNING! Connect the ground wires in accordance with local regulations.

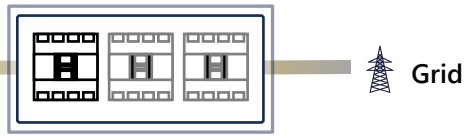


NOTE: Strip ≤240mm of the cable jacket

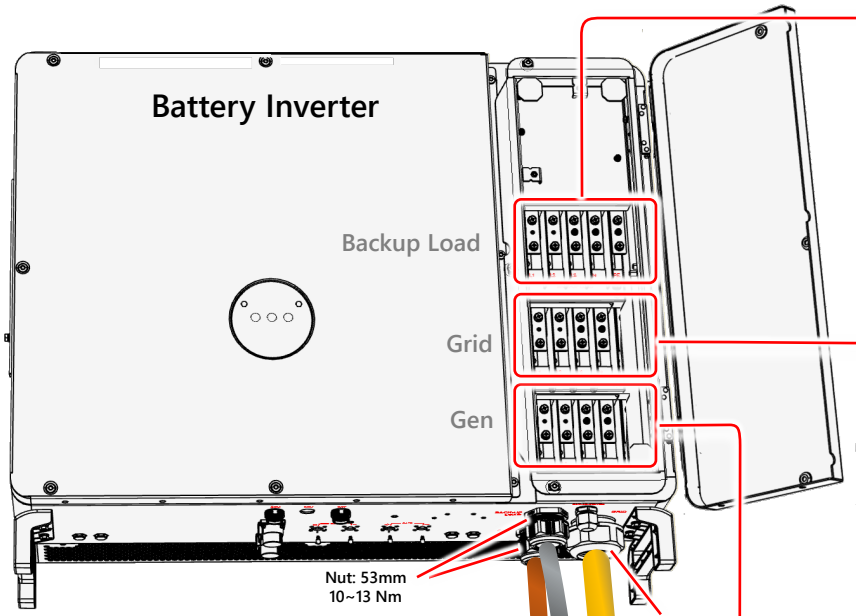


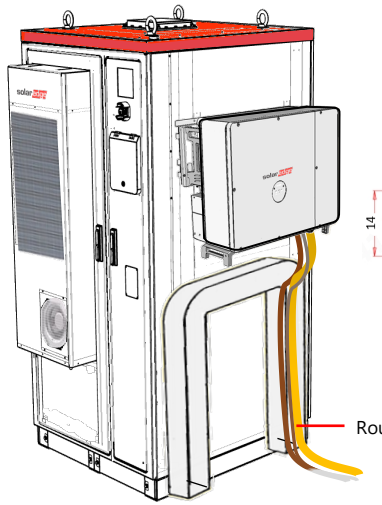
AC Distribution Panel

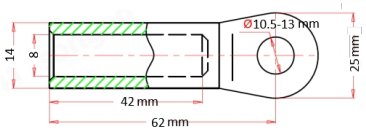
(Infrastructural preparation of the client, not supplied by SolarEdge)

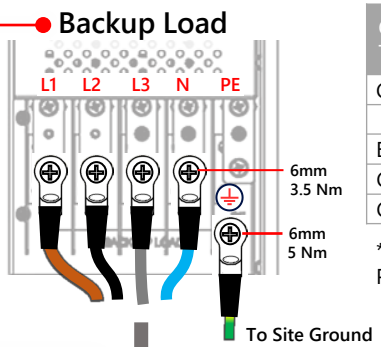


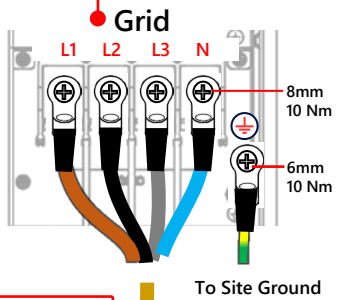
AC Wiring of Battery Inverter with Backup



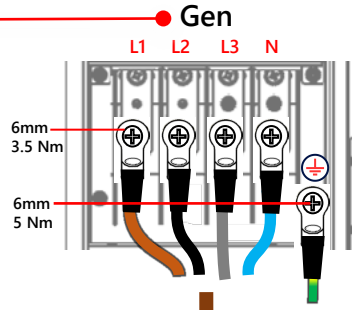








NOTE: Strip ≤240mm of the cable jacket



Cable Type	Max Current (per phase)	Wire Cross-section (mm²)	Proposed Diameter (AWG)	Lug Size
Grid*	87A (PCS 030B)	20~35 mm²	2~4 AWG	M6
	144A (PCS 050B)	35~50 mm²	2 AWG	M8
Backup Load	110A	16~20 mm²	4~6 AWG	M6
Generator	110A	16~20 mm²	4~6 AWG	M6
Ground		<16 mm²	5~6 AWG	M6

* In **Italy**, the maximum grid input current per phase is 72 A for the PCS 050B and 44 A for the PCS 030B.

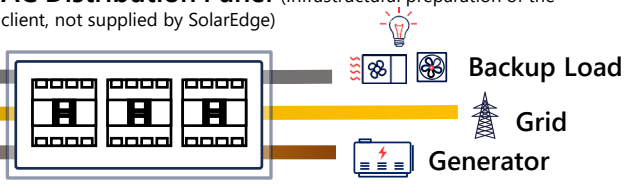
NOTE: Cable properties: (Not supplied)
- Multi-stranded class 5 or 6 flexible **copper** conductors
- Crimp-provided M6 lugs for the generator and backup load wires. Lugs fit class 2 cables. For class 5 or 6, bring your lugs.
- To keep the gland sealed, use 5C or 4C cable type. (3ph+N+PE)

WARNING! Connect the ground cables in accordance with local regulations.

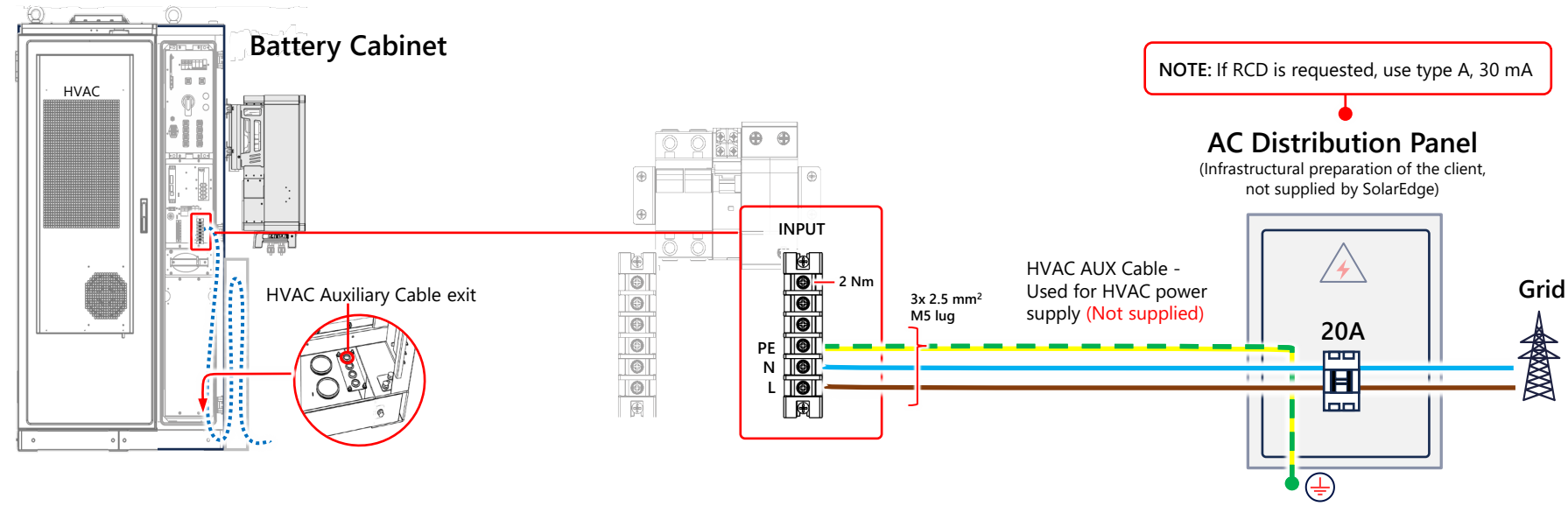
NOTE:
- Recommended Grid circuit breaker parameters: 3P 200A/400VAC. (In **Italy**, the recommended grid breaker for PCS 050B is 100A and for PCS 030B is 63A). If required by local regulations, use type A, 300 mA RCD
- Recommended Backup Load and Generator circuit breaker parameters: ≥ 125A/≥ 400VAC

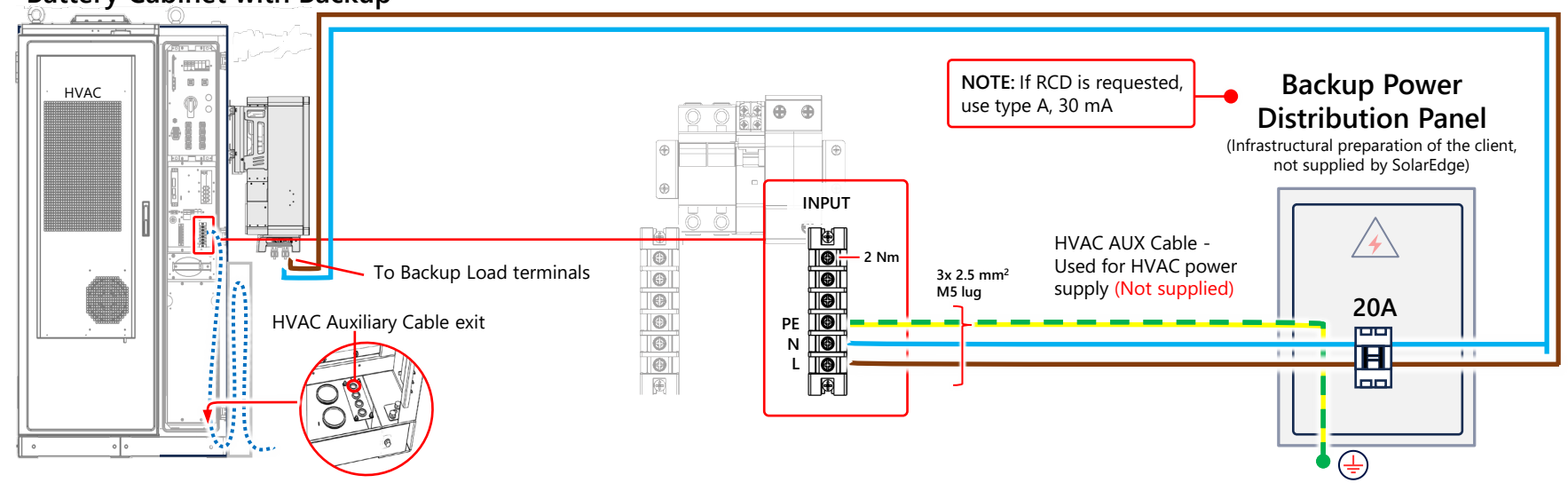
WARNING! When the Inverter runs in a TN-C-S system:
- The neutral (N) and protective earth (PE) must be separated before connecting to the backup Inverter and the backed-up loads.
- This separation is done at the main distribution point, where the system transitions from TN-C-S to TN-S.
- After this point, no additional neutral-to-ground connections are allowed.

AC Distribution Panel (Infrastructural preparation of the client, not supplied by SolarEdge)

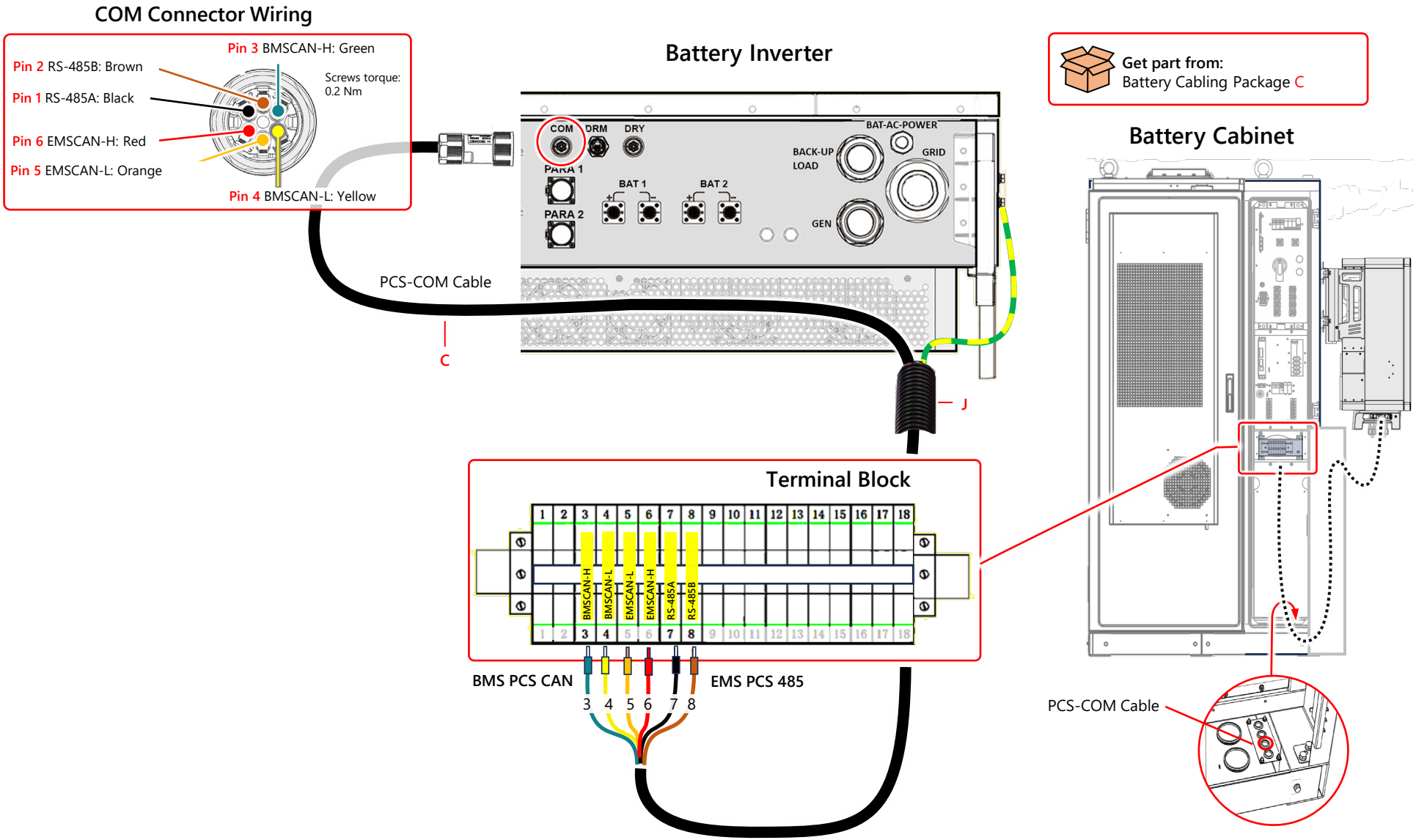


Wiring the HVAC



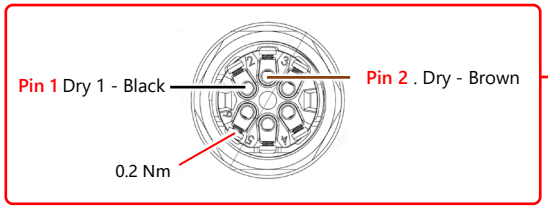


Wiring Communication between Battery Cabinet & Battery Inverter

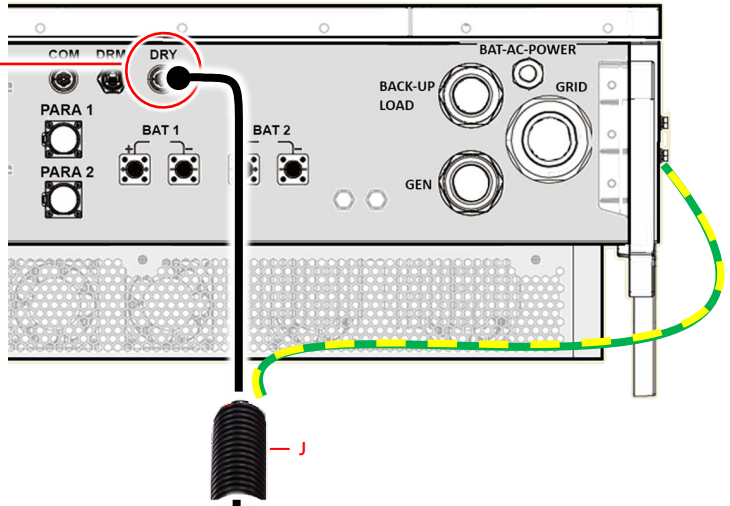


Wiring Communication Between Battery Cabinet & Diesel Generator

DRY Connector Wiring

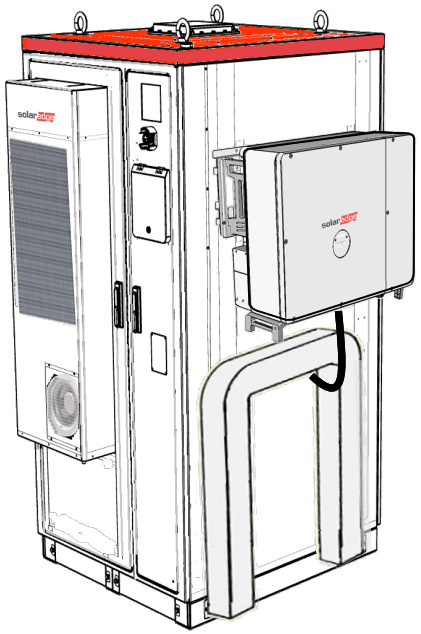


Battery Inverter

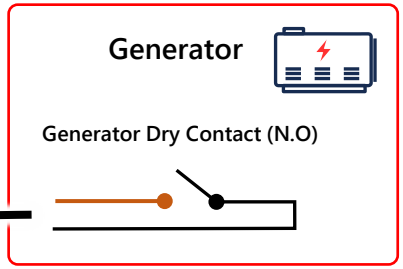


Get parts from:
Battery Cabinet Package C and D

Battery Cabinet

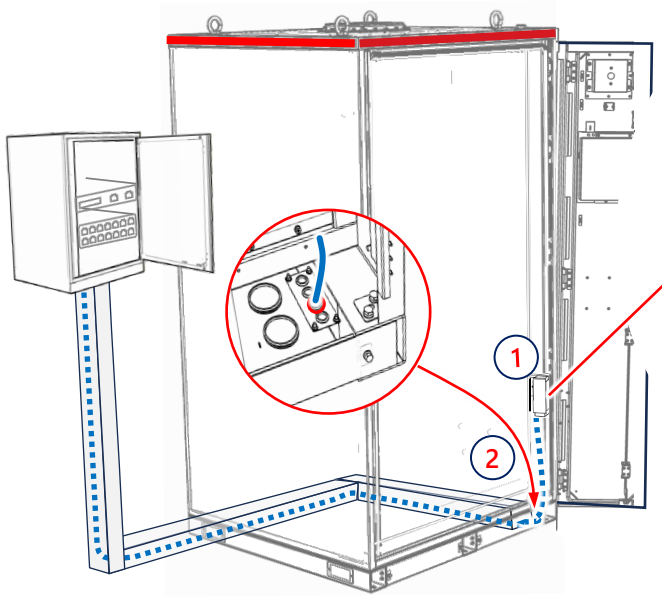


DRY Contact Communication Cable

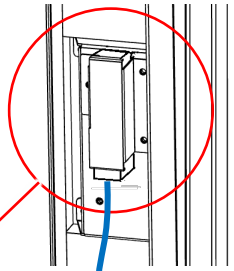


**The diesel generator option will be enabled in a future release.

Wiring Communication Between Battery Inverter(s) & SolarEdge ONE for C&I



LAN Adaptor



Modbus TCP-LAN communication cables (Customer supplied)

Energy Meter
(Purchased separately)

Grid

Energy Meter
(Purchased separately)

Diesel Generator (Optional)

Internet Router
(Customer supplied)

6

3

(Customer supplied)

4

(Customer supplied)

5

ETH2

ETH1

Up to 20 CSS OD Cabinets
(The number of supported cabinets may depend on future product releases)

Unmanaged Ethernet Switch (Customer supplied)

- Minimum 100 Mbps (Recommended 1000 Mbps)
- Recommended RJ4516 ports
- Recommended DIN rail mounting
- Recommended Industrial-grade switch, fanless design, with port link indications

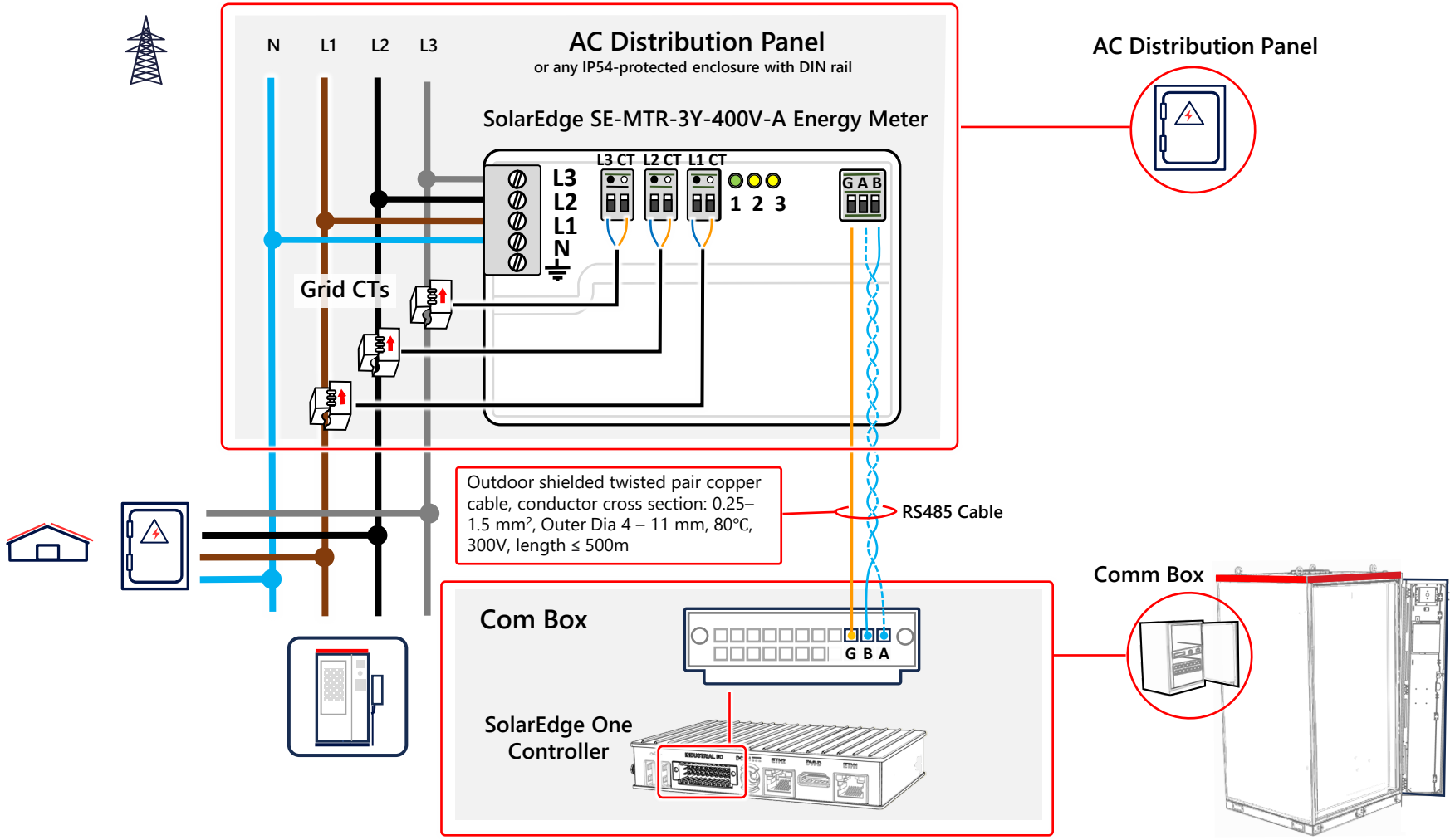
SolarEdge ONE Controller

The SolarEdge ONE Controller is purchased separately and connects the battery cabinet to the cloud via a customer-provided local gateway.

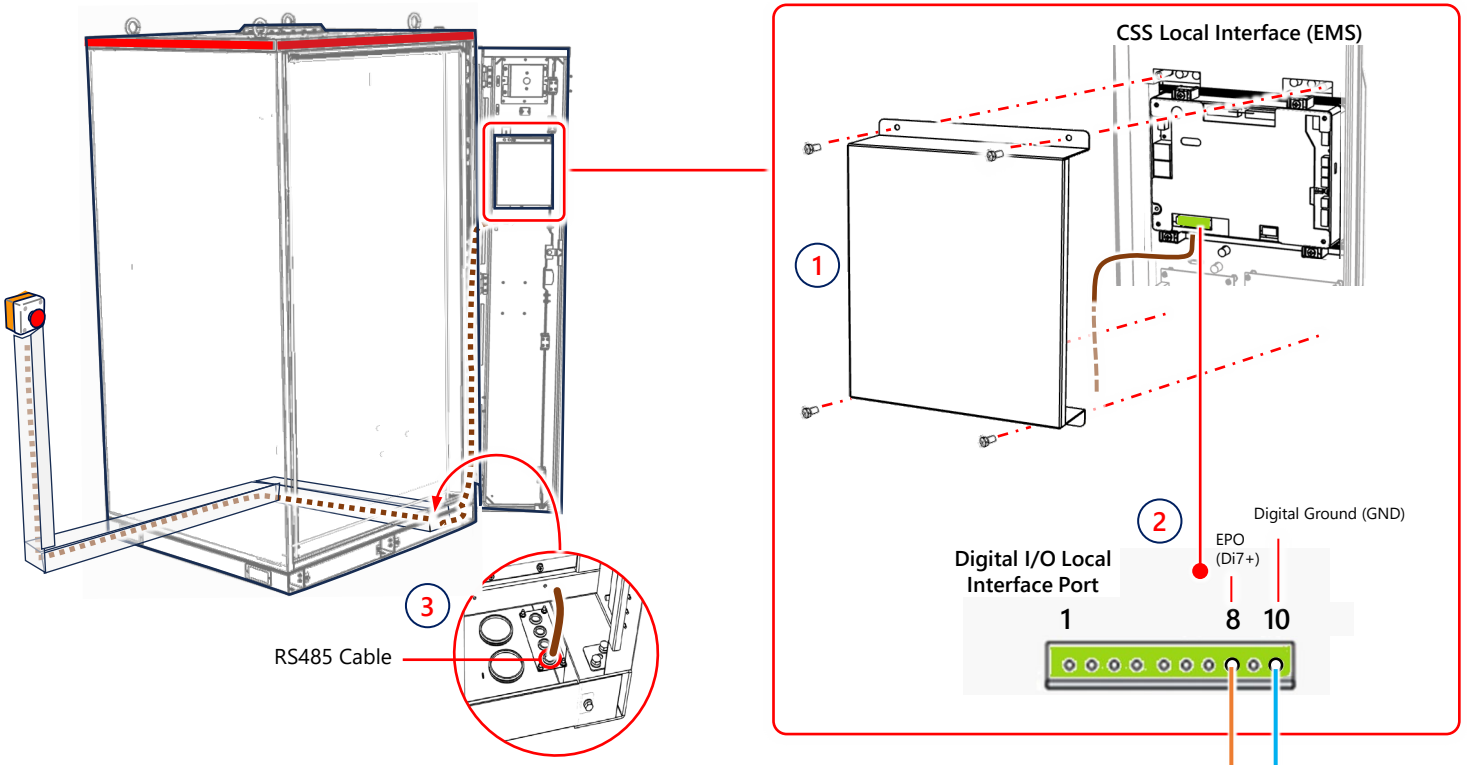
SolarEdge ONE for C&I

Logon to SolarEdge ONE for C&I portal and refer to User Guide to set, manage and monitor your site.

Connecting Energy Meter



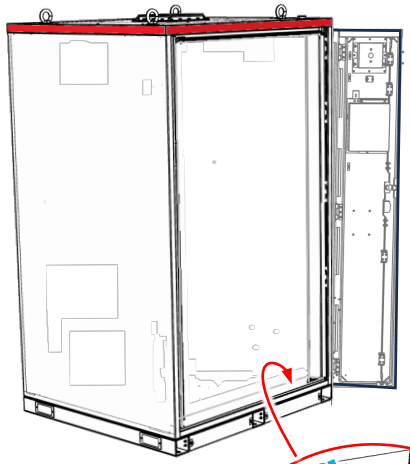
Wiring Remote EPO Push-button to Battery Cabinets & Battery Inverters (Optional)



Remote EPO Requirements

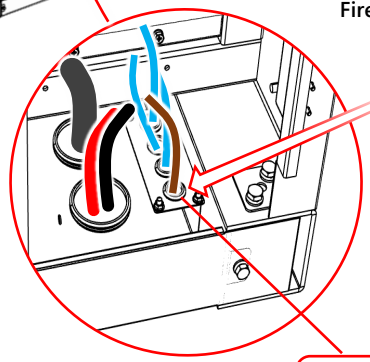
- Use only a passive Normally Open (N.O) EPO push-button
- Connect the EPO in parallel to the Battery Cabinets, using pins 8 and 10 of the Digital I/O Local Interface Port of the EMS
- The EPO push-button trips the entire string of Battery Cabinets
- Recovery duration is 1 second
- Do not add any additional wiring to Battery Cabinets

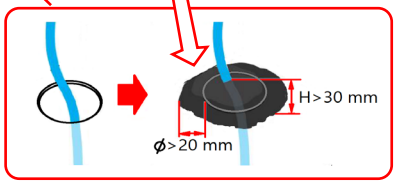
Sealing and Closing Wiring Duct Lid and Panels

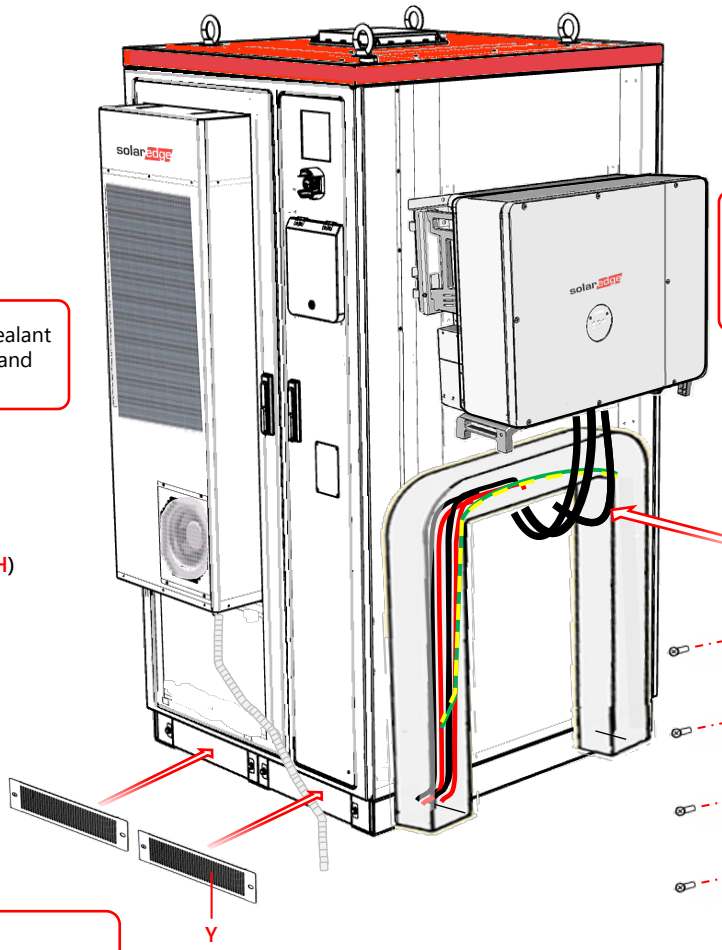


IMPORTANT! Use fire clay sealant to block the cable exit gaps and seal unused wiring holes.

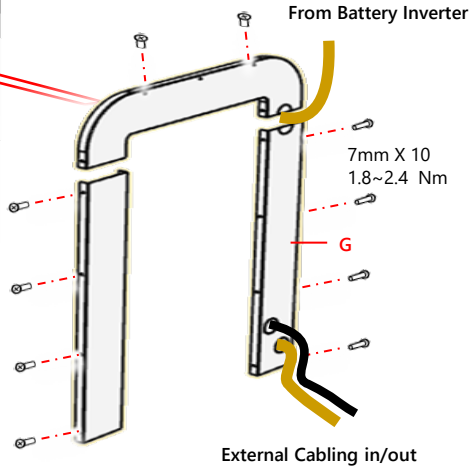
Fire Clay Sealant (x4) (H)





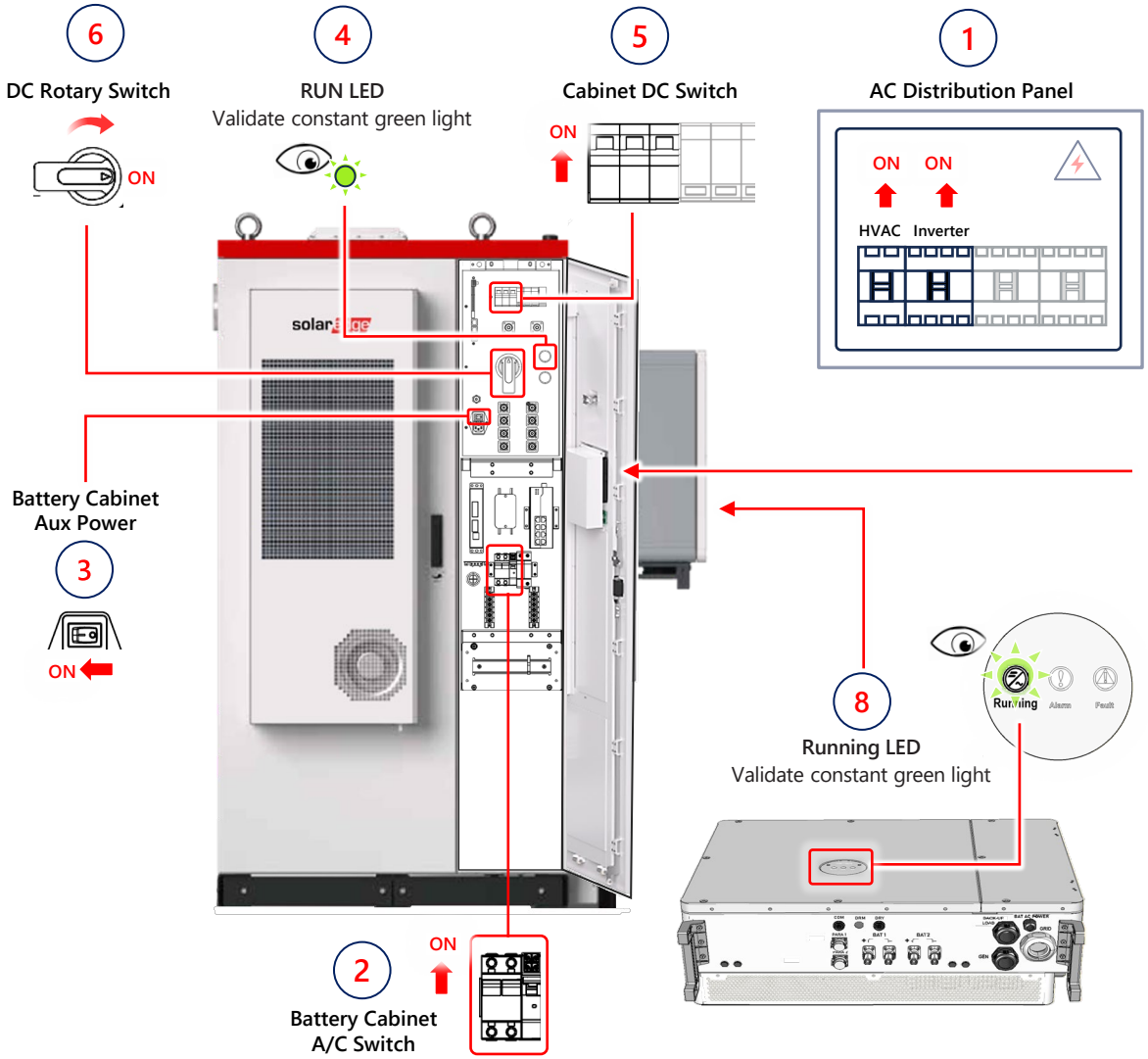


Get parts from: Battery Cabinet Package (Y, G [Duct Cover])



Appendix A
Powering the CSS-OD

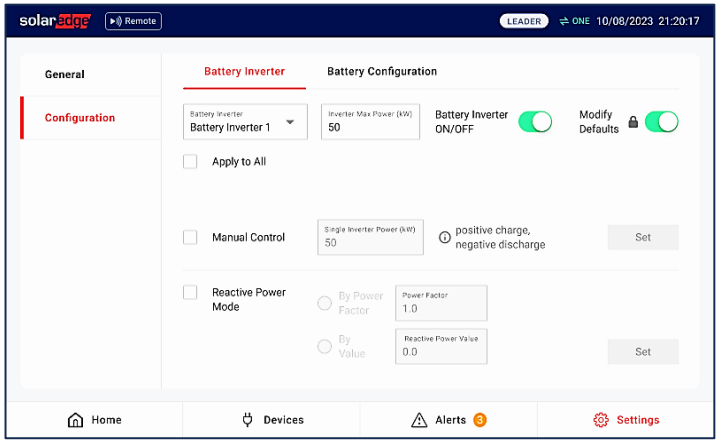
Follow the numbered steps to power on the system



CAUTION! Before powering up the Battery Inverter, it is necessary to verify the connection of all cables and make sure they are correct and tight.

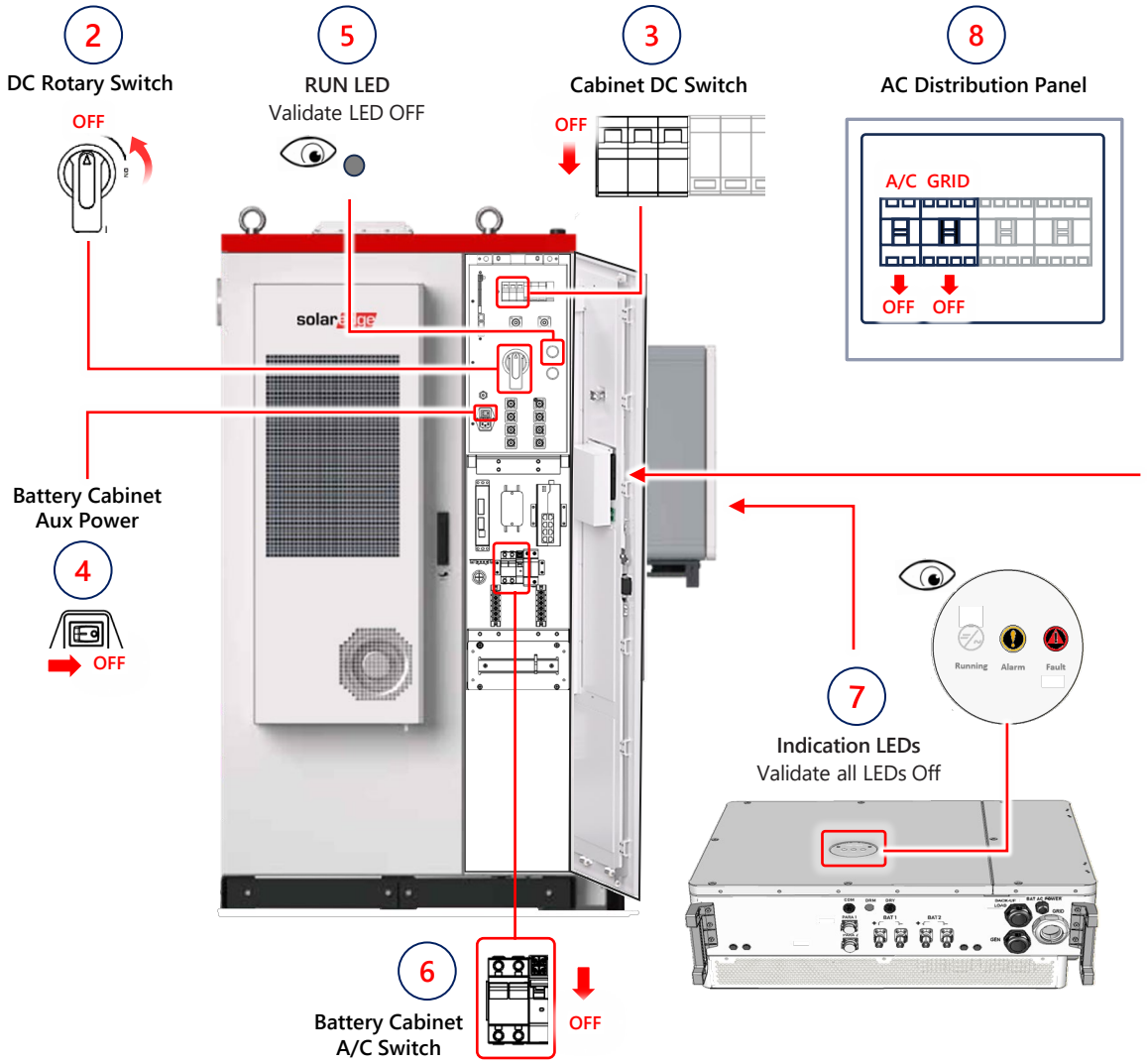
7 EMS Screen

1. Click : **Settings** → **Configuration** → **Battery: Inverter** → **Modify Defaults** → **ON**. **Battery Inverter On/Off** → **ON**.
2. Enter the password to power on the Inverter (Get the password from SolarEdge Support). The → **Battery Inverter ON/OFF** button changes from green to gray, and the Running LED light changes from steady red to green.
3. Click **Home** to check device status, active power, and DC voltage to confirm successful operation.
4. Click the **Device** tab to check the operating status and voltage of Inverter and battery cabinet to confirm successful operation.



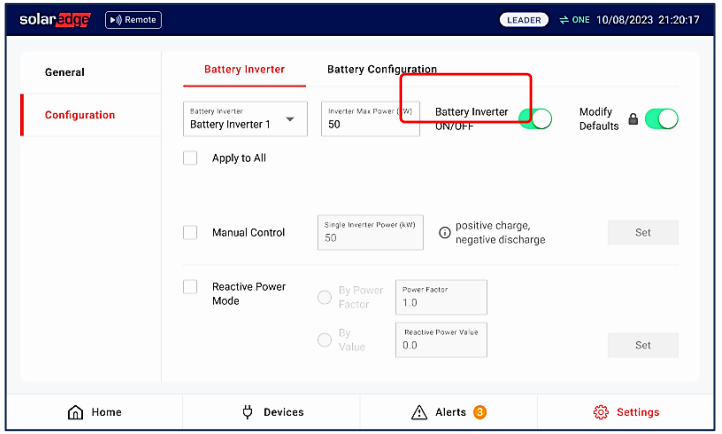
Power Off Sequence

Follow the numbered steps to power off the system



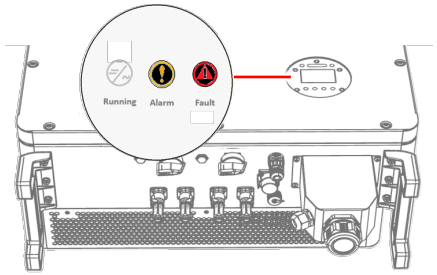
1 EMS Display

1. Click: **Settings → Configuration → Battery Inverter → Battery Inverter On/Off → OFF**.
2. Enter the password to power off the Inverter (Get the password from SolarEdge Support). The shutdown button changes from green to gray, and the Running LED changes from steady green to flashing red.



Appendix B
Commissioning

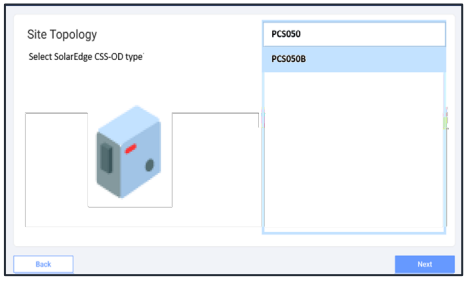
1 Ensure CSS-OD 107 Inverter is powered on and in standby – Alarm and Fault LEDs illuminate.



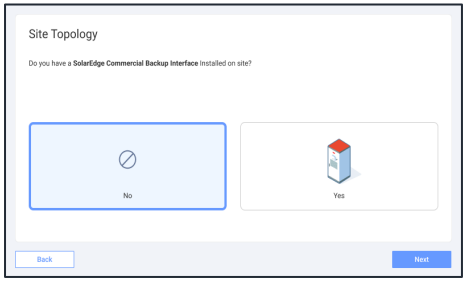
2 When the cabinet boots, it displays a Welcome screen - Tap 'Let's Start'.



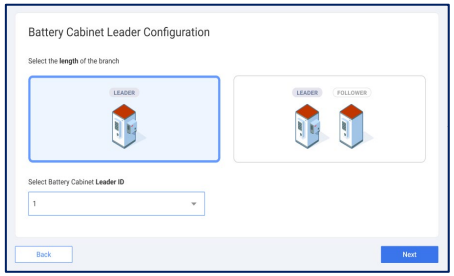
3 Select the PCS050B battery Inverter type, then tap **Next**



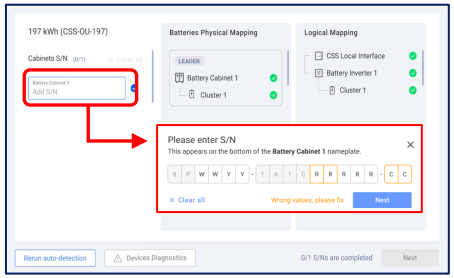
4 Select **No** and tap **Next**



5 Select the Cabinet Leader ID=1, then tap **Next**

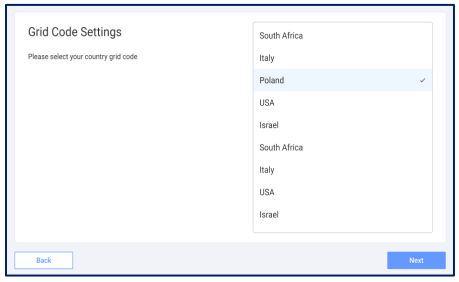


6 Enter the serial number found on the nameplate of the battery cabinet and tap **Next**

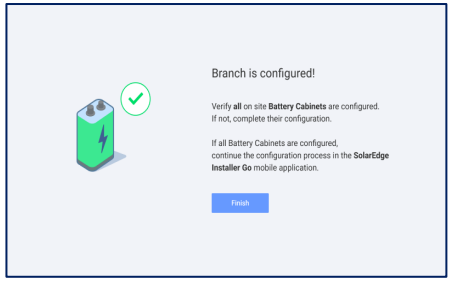




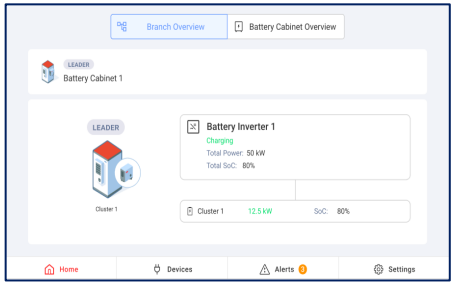
7 Select your Grid Code Setting based on your local utility requirements, then tap **Next**



8 Tap **Finish**



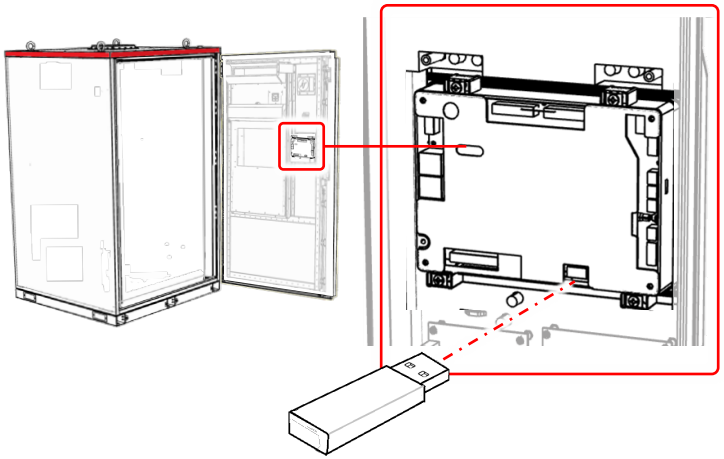
9 Verify that the battery cabinet shows **Charging**



Watch the commissioning video

Firmware Upgrade

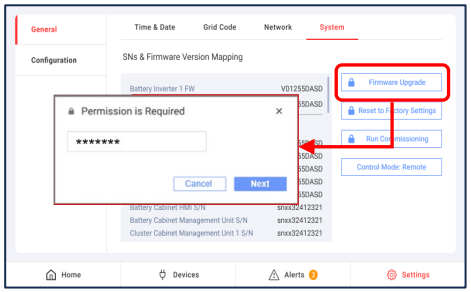
1 Contact SolarEdge support to download a firmware upgrade file to a USB flash drive. Insert the drive into the USB port on the back of the EMS.



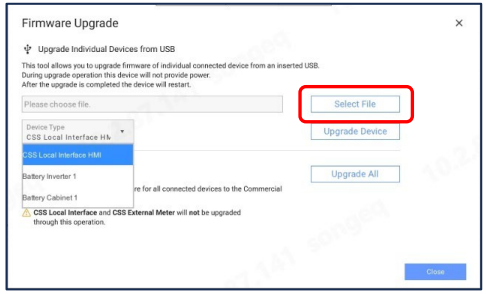
IMPORTANT!

- The capacity of the USB flash drive must be exactly 32 GB.
- The flash drive must be formatted using the FAT32 file system.
- Download the .7zip file from the URL provided by SolarEdge Support directly to the root directory of the USB flash drive and unzip the file.

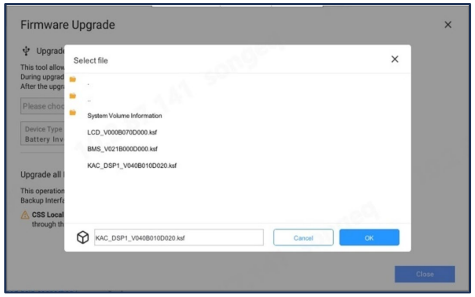
2 Tap: **General** > **Settings** > **Firmware Upgrade**



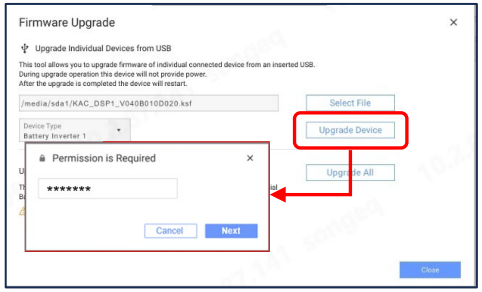
3 Select Battery Inverter **1** or **2**, and tap **Select File**



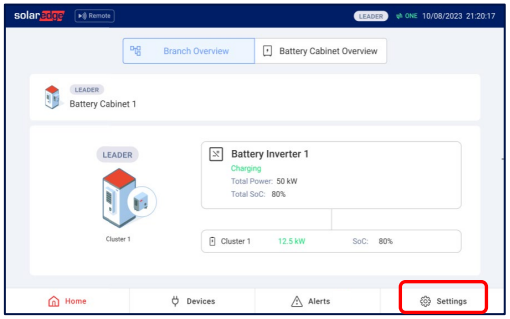
4 For the HMI upgrade, select the LCD file.
For the Battery Inverter upgrade, select the KAC file.
For the MBMU, select the BMS file. Tap **OK** to continue.



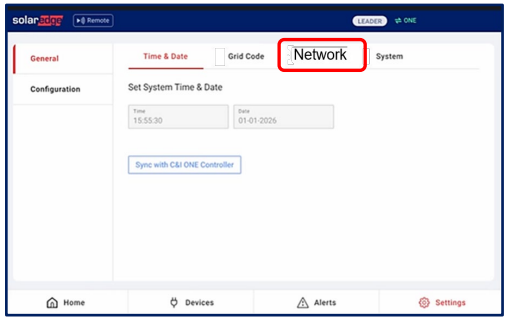
5 Tap Modify Defaults, enter the password, and tap **Next**.



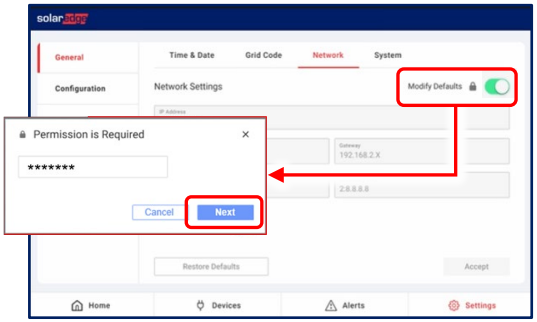
1 Tap **Settings** on the Home Screen



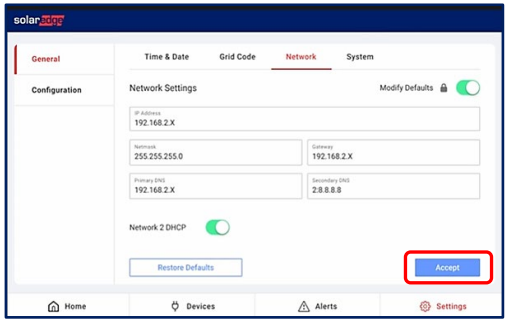
2 Tap General > **Network**



3 Tap **Modify Defaults** and enter the password > **Next**



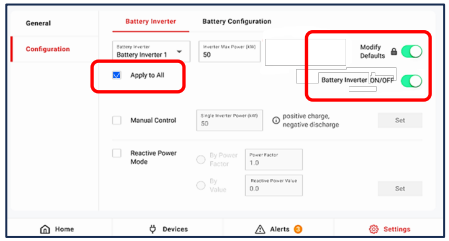
4 Tap **Accept**



Battery Cabinet Activation

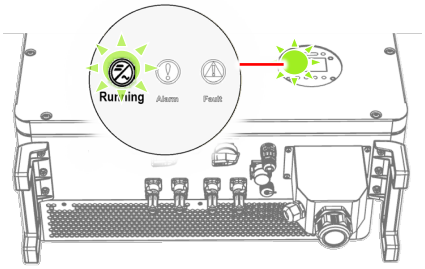
1 Before proceeding, make sure all the switches on the Inverter are in the ON position.

1. Turn on the **Modify Defaults** switch.
2. Check the **Apply to All** option.
3. Tap on **Battery Inverters** to begin the inverter activation process.

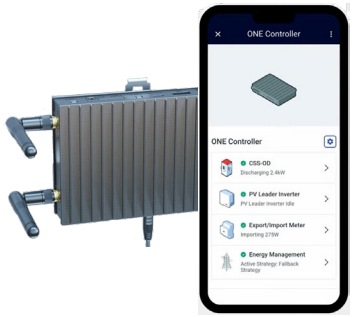


2 Disconnect AC and DC power from the Inverter and reconnect to reset the Inverter. (See Appendix A: Powering the CSS-OD)

3 Validate that the **Running LED** shows a constant green light



4 Install SolarEdge Go for SolarEdge ONE Controller for C&I Configuration



[For SolarEdge ONE Controller for C&I configuration, watch the commissioning Video]

Appendix C
Troubleshooting and Maintenance

Troubleshooting

Fault Description	Possible Cause	Corrective Action
Grid Overvoltage	Grid voltage above permissible limit	• Check Grid Code settings • Check grid voltage with a multimeter. • Contact utility provider if voltage remains high.
Grid Undervoltage	Grid voltage below permissible limit	• Verify connection at AC terminals. • Check for utility fluctuations or loose wiring.
Grid Frequency Error	Frequency outside 50/60 Hz ±0.5 Hz	• Confirm local grid frequency stability. • Wait for automatic reconnection once frequency normalizes.
Insulation Resistance Fault	Low insulation resistance detected on DC side	• Check for good earth resistance of BT+ and BT– battery terminals is greater than 2 MΩ. • Replace defective module or cable.
Ground Fault	Leakage current detected	• Inspect for damaged cables or moisture ingress. • Dry the system and re-test insulation.
Temperature Overheat	Inverter temperature exceeds safe limit	• Ensure ambient temperature is within range. • Clean heat sink and check for blocked airflow. • Verify fan operation (if equipped).
Communication Failure	Lost connection with SolarEdge ONE system	• Check communication wiring and connectors. • Verify that SolarEdge ONE Controller is powered. • Verify that your site router is powered and connected to the internet.

Maintenance

NOTE: For CSS-OD routine maintenance guide, refer to: https://knowledge-center.solaredge.com/sites/kc/files/se-css-od-90-routine-maintenance-guide.pdf

Battery Inverter LED Indications

LED Indication(s)		Description
All LEDs are Off		The battery inverter is powered off
Steady Green		Standard operation
Flashing Yellow and steady Red		Self-test
Steady Yellow and steady Red		Standby mode
Steady		Faulty Inverter (Contact support)
Flashing Red		Severity level: Inverter fault (Contact support)
Steady Green and flashing Yellow		Normal operation; state of charge approaching 100% or 0%

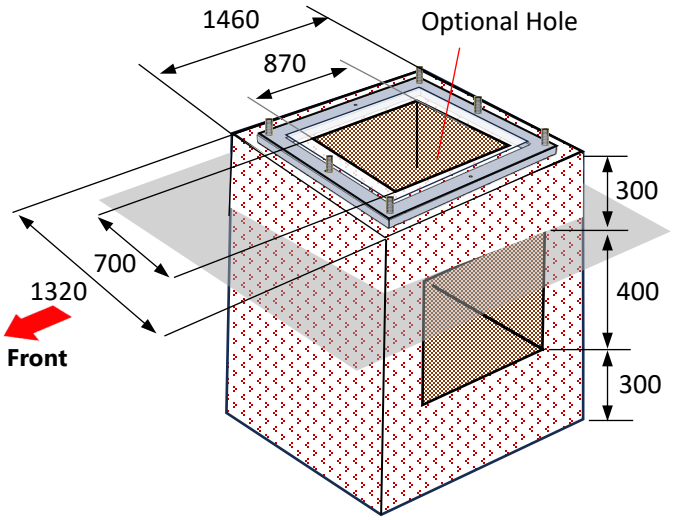
Appendix D
Construction Details

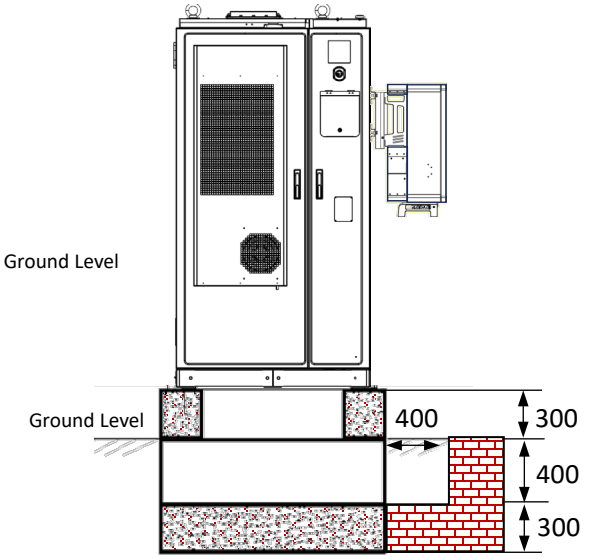
Battery Cabinet Concrete Platform Base Guidelines

IMPORTANT NOTES!

1. Battery Cabinet must be installed on a reinforced concrete platform base.
2. Dig a trench or reserve a cable entry hole by considering the electrical wiring of the equipment before construction of the foundation.
3. The foundation must be made of non-combustible materials.
4. The bearing capacity of the foundation shall be > 3 t.
5. When designing and manufacturing the embedded steel plates for the battery cabinet, it is necessary to consider that there must be a reliable connection (reinforcement hook) between the embedded steel plate and the concrete base.
6. When molding the concrete pad, it shall protrude below the ground a minimum of 700 mm.
7. To avoid flood damage and safety hazards, the cabinet must be installed on a concrete platform with a minimum height of 300 mm. The Concrete base surface smoothness shall be ≤ 3mm.
8. The upper surface tolerance of the foundation shall be ±5mm.
9. The concrete pad shall prevent rainwater accumulation on top of it. The foundation construction should meet the drainage requirements for the maximum volume of rainfall in the locality, and the discharged water needs to be treated in accordance with local laws and regulations.
10. The foundation drawing is only for reference and cannot be regarded as the final construction drawing. Operators shall recheck the basic parameters according to the environment, geological conditions, seismic requirements, etc., of the installation site.

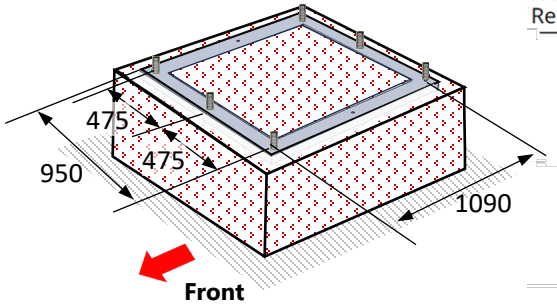
Concrete Platform Base

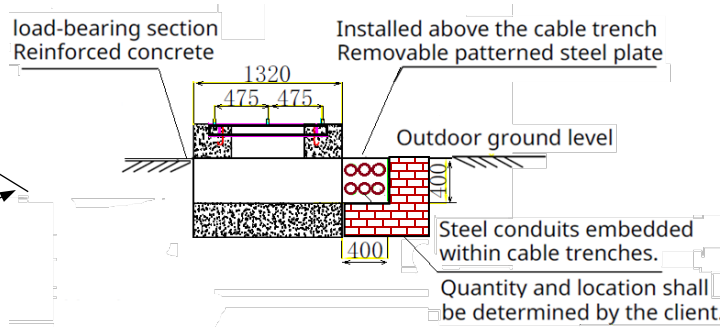




Embedded Steel Plate with Studs

Steel plate embedded with six M12×50 welded studs. Embedded Steel Plate 100 / 10





All dimensions are in mm

Support Contact Information
If you have technical problems concerning SolarEdge products, please contact us:
https://www.solaredge.com/service/support

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