

SolarEdge Home Hub Inverter Three Phase with Backup, for Europe

SE5K-RWB48, SE8K-RWB48, SE10K-RWB48

INVERTERS



Three phase inverter for storage and backup applications

- Simple installation with single inverter for managing both PV production, battery storage, and operation during power outage for full house backup applications⁽¹⁾
- More energy using DC coupled solution architecture that stores PV power directly to the battery without AC conversion losses
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Designed to eliminate high voltage during installation, maintenance or firefighting for enhanced safety
- Enables module-level monitoring and full visibility of battery status, PV production, and self- consumption data
- Allows connection of batteries from SolarEdge and other vendors⁽²⁾ to provide greater flexibility

(1) Requires additional hardware and firmware version upgrade

(2) Pending firmware support

SolarEdge Home Hub Inverter

Three Phase with Backup, for Europe

SE5K-RWB48, SE8K-RWB48, SE10K-RWB48



	SE5K-RWB48	SE8K-RWB48	SE10K-RWB48	UNITS
BATTERY MODULE SPECIFICATION				
Rated AC Power Output	5000	8000	10000	VA
Maximum AC Power Output	5000	8000	10000	VA
AC Output Voltage — Line to Line / Line to Neutral (Nominal)	380/220 ; 400/230			Vac
AC Output Voltage — Line to Neutral Range	184 - 264.5			Vac
AC Frequency	50/60 ± 5			Hz
Maximum Continuous Output Current (per Phase)	8	13	16	A
Residual Current Detector / Residual Current Step Detector	300 / 30			mA
Grids Supported	3 / N / PE Three Phase (WYE with Neutral)			
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes			
OUTPUT - AC BACKUP				
Maximum AC Power Output	4500	7200	9000	VA
AC Output Voltage — Line to Line / Line to Neutral (Nominal)	380/220 ; 400/230			Vac
AC Output Voltage — Line to Neutral Range	184 - 264.5			Vac
AC Frequency	50/60 ± 5			Hz
Maximum Continuous Output Current (per Phase)	7.2	11.7	14.4	A
Residual Current Detector / Residual Current Step Detector	300 / 30			mA
Grids Supported	3 / N / PE Three Phase (WYE with Neutral)			
Transformer-less, Ungrounded	Yes			
Utility Monitoring, Ensure Safe Disconnection from Utility Grid in Backup Operation, Configurable Power Factor, Country Configurable Thresholds	Yes			
Automatic Switchover Time	<10			Sec
Max Allowed Imbalanced Between Phases	1.66	2.66	3	Kw
INPUT PV				
Maximum DC Power (Module STC)	10000	13000	15000	W
Maximum Input Voltage	900			Vdc
Nominal DC Input Voltage	750			Vdc
Maximum Input Current	13.3	17.3	20	Adc
Reverse-Polarity Protection	Yes			
Ground-Fault Isolation Detection	700kΩ Sensitivity			
Peak Inverter Efficiency	98			%
European Weighted Efficiency	97.3	97.6		%
INPUT/OUTPUT BATTERY				
Supported Battery Types(1)	SolarEdge BAT-05K48 (1-5 battery modules)			
	Pending firmware support: LG Chem RESU3.3, RESU6.5, RESU10, RESU12, RESU13			
	Pending firmware support: BYD Battery-Box Premium LVS 4.0, 8.0, 12.0, 16.0, 20.0, 24.0			
Maximum Charge/Discharge Power	5000			W
Input Voltage Range	40-62			Vdc
Maximum Continuous Input/Output Current	125			Adc
Peak Battery to Grid Discharge Efficiency	96.1			%
Battery to Inverter Communication	CAN			
ADDITIONAL FEATURES				
Supported Communication Interfaces	Built in: 2 x RS485, Ethernet, SolarEdge Home Network			

(1) Each battery may have different number of modules connected in parallel for excess storage capacity, pending vendor's support and inverter firmware. For the current list of modules support, please refer to the firmware release note

SolarEdge Home Hub Inverter

Three Phase with Backup, for Europe

SE5K-RWB48, SE8K-RWB48, SE10K-RWB48



	SE5K-RWB48	SE8K-RWB48	SE10K-RWB48	UNITS
STANDARD COMPLIANCE				
Safety	IEC62109			
Grid Connection Standards ⁽²⁾	VDE-AR-N 4105, Tor Erzeuger Typ A, EN 50549-1, CEI 0-21, G98 Type A, G98 NI Type A, RD1699 / RD413 / NTS, VDE-V 0126-1-1, VFR 2019, EN 50438			
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, EN55011			
RoHS	Yes			
INSTALLATION SPECIFICATIONS				
AC Output – Cable Gland Diameter	15 - 21			mm
Battery DC – Cable Gland Outer Diameter	2 x 11-16.5			mm
PV DC Input	2 x MC4 pair			
Dimensions (H x W x D)	907 x 317 x 192			mm
Weight	37			kg
Operating Temperature Range	-40 to +60			°C
Cooling	Internal and external fans			
Noise	< 50			dBA
Protection Rating	IP65 — outdoor and indoor			
Mounting	Brackets provided			

SOLAREEDGE HOME HUB INVERTER - ACCESSORIES (PURCHASED SEPARATELY)

SUPPORTED COMMUNICATION INTERFACES
Wi-Fi (requires Wireless Gateway)
Cellular

SolarEdge Home Battery

Low Voltage, for Europe

BAT-05K48



Optimized storage solution for SolarEdge Home Hub Inverter - Three Phase with Backup

- DC coupled battery featuring superior overall system efficiency, generating more energy to store and use for on-grid and backup* power application
- Integrates seamlessly with the complete SolarEdge Home ecosystem, offering a single source for warranty, support and training, to streamlined logistics & operations
- Includes enhanced safety features for battery protection
- Scalable solution that enables to stack up multiple battery modules per inverter for increased capacity (up to 23 kWh)
- Solar, storage, EV charging, and smart devices all monitored and managed by a single app for optimized production, consumption, and backup* power
- Simple plug and play installation, with automatic SetApp-based configuration

* Backup applications are subject to local regulation and may require additional components and firmware upgrade

/ SolarEdge Home Battery

Low Voltage, for Europe

BAT-05K48

BAT-05K48 ⁽¹⁾		UNITS
BATTERY MODULE SPECIFICATION		
Usable Energy (100% depth of discharge)	4600	Wh
Continuous Output Power (Charge/Discharge) – for a single module	2825/4096	W
Continuous Output Power (Charge/Discharge) – for multiple modules	5000/5000	W
Peak Roundtrip Efficiency	>94.5	%
Warranty ⁽²⁾	10	years
Voltage Range	44.8 – 56.5	Vdc
Communication Interfaces	RS485 between modules, CAN bus to inverter	
Modules per Inverter	Up to 5 connected in parallel	
STANDARD COMPLIANCE		
Safety (cell level)	IEC62619, UL1973, UL9540A, UN38.3	
Safety (Module level)	IEC62619, IEC63056, IEC62040-1, VDE-AR-E 2510-50	
Emissions	IEC61000-6-1, IEC61000-6-2, IEC61000-6-5, EN55011	
MECHANICAL SPECIFICATIONS		
Dimensions (W x H x D)	540 x 500 x 240	mm
Weight	54.7	kg
Mounting	Floor stand and wall attach	
Operating Temperature ⁽³⁾ Discharge/Charge	-10 to +50	°C
Storage Temperature (12 months between recharge)	-10 to +30	°C
Storage Temperature (8 months between recharge)	-10 to +45	°C
Maximum Altitude	2000	m
Enclosure Protection	IP65 / NEMA 3R - indoor and outdoor (water and dust protection)	
Cooling	Natural convection	
Noise (at 1m distance)	<25	dBA

(1) Specification applies to PN "BAT-05K48S0B-01"

(2) For warranty details, please refer to the SolarEdge Home Battery Limited Warranty.

(3) Derating applies. Please note that operating the SolarEdge Home Battery at extreme temperatures for extended durations of time may void the Battery warranty coverage. Please see the SolarEdge Home Battery Limited Product Warranty for additional details.

SOLAREGE HOME BATTERY - ACCESSORIES (PURCHASED SEPARATELY)

DESCRIPTION	PN
Accessory residential battery, top cover (1 required per tower)	IAC-RBAT-5KMTOP-01
Accessory Residential battery, cable set battery to inverter	IAC-RBAT-5KCINV-01
Accessory residential battery, cable set battery to battery	IAC-RBAT-5KCBAT-01
Accessory Residential battery, cable set tower to tower	IAC-RBAT-5KCTOW-01
Floor stand (optional)	IAC-RBAT-5KFSTD-01

Technical Note - Compatibility Matrix for SolarEdge Home Three Phase Inverters and Batteries

This matrix shows the compatibility between SolarEdge Home Three Phase Inverters and SolarEdge Home batteries, as well as third-party batteries. In addition, it includes the maximum number of batteries or battery modules per inverter. For SolarEdge Home Network and inverter compatibility, see the [SolarEdge Home Network plug-in kit selection technical note](#).

	Model Name	SolarEdge Home Battery - Low Voltage	BYD Battery-Box Premium LVS	LG Chem LV Battery	SolarEdge Home Battery - High Voltage
Maximum Number of Batteries per Inverter		1-5 battery modules per inverter	1-6 battery modules per inverter	Up to 2 batteries with RESU Plus Box per inverter	Up to 3 batteries per inverter
SolarEdge Home Hub Inverter – Three Phase	SExxxK-RWB48	✓	✓ ¹	✓ ¹	✗
SolarEdge Home Wave Inverter – Three Phase (Formerly StorEdge Three Phase Inverter)²	SExxxK-RWS	✓ ^{1, 2}	✓	✓ ³	✗
SolarEdge Home Wave Inverter – Three Phase (Formerly SolarEdge Three Phase Inverter for Short PV strings)	SExxxK-RWB	✗	✗	✗	✓ ¹

¹ Pending firmware version support

² Supported from Production Week 29, 2021 and excluding "BYD-only" Part Numbers SE*K-RWS48BEB4. The production week can be identified by the serial number of the inverter. "SxWWYY" indicates production week WW in year YY. For example, "SJ3021" was produced in week 30, 2021

³ Excluding "BYD-only" Part Numbers SE*K-RWS48BEB4

SolarEdge Home Backup Interface

Three Phase, for Europe

BI-EU3P

BACKUP



Flexible Backup Interface

- Automatically provides backup power to home loads in the event of grid interruption
- Flexibility in which loads to back up - the entire home or selected loads
- Scalable solution to support higher power & higher capacity
- Seamless integration with the SolarEdge Home Hub Inverter to manage and monitor both PV generation and energy storage

SolarEdge Home Backup Interface

Three Phase, for Europe

BI-EU3P



BI-EU3P ⁽¹⁾		UNITS
GRID CONNECTION		
AC Current Input	3*63	A
AC Voltage Line – Neutral (Min/Nom/Max)	160/230/264	V
AC Frequency (Min/Nom/Max)	45/50/55	Hz
Microgrid Interconnection Device Rated Current	3*63	A
Grid Disconnection Switchover Time	< 10 ⁽²⁾	Sec
OUTPUT TO DISTRIBUTION PANEL		
Maximum AC Current Output	3*63	A
AC Voltage Line – Neutral (Min/Nom/Max)	160/230/264	V
AC Frequency (Min/Nom/Max)	45/50/55	Hz
Oversvoltage Category	III	
ADDITIONAL FEATURES		
Operation During Backup	Connection of 3 phases + N from external grid; PE to Neutral connection / disconnection configuration option on internal grid	
Number of Communication Inputs	1	
Communication	RS485 and SolarEdge Energy Network	
Energy Meter (for Import/Export)	Integrated ⁽³⁾ , 1.25% accuracy	
Manual Control Over Microgrid Interconnection Device	Yes	
STANDARD COMPLIANCE		
Safety	IEC/EN 62109-1	
Emissions	IEC 61000-6-2, IEC 61000-6-3, IEC 61000-3-11, IEC 61000-3-12, EN55011	
INSTALLATION SPECIFICATIONS		
Supported Inverters	SolarEdge Home Hub Inverter - Three Phase with Backup	
AC From Grid Conductor Cross Section	6 - 16	mm ²
Grid / Loads Conduit Diameter	25 - 32	mm
AC Conductor Cross Section	6 - 16	mm ²
Communication Cable Cross Section	0.2 – 1.5	mm ²
Communication Gland Diameter	5 - 15	mm
Weight	<5	kg
Noise	< 50	dBA
Operating Temperature Range	-40 to +50	°C
Relative Humidity Range	0 - 100	%
Protection Rating	IP65	
Dimensions (H x W x D)	390 x 238 x 147	mm
Environmental Category	Outdoor	
Pollution Degree	3	
Maximum Altitude Rating	2000	m

(1) Applicable for PN BI-NEUNU-3P-01

(2) According to local grid settings

(3) Pending firmware support

Energy Bank Floor Mount Battery Stand Assembly Guide

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Floor Mount Battery Stand Overview 1

Energy Bank Floor Mount Arrangement and Gross Dimensions 1

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Floor Mount Battery Stand Overview

The SolarEdge Energy Bank battery can be floor mounted with each battery secured in a SolarEdge Energy Bank Floor Mount battery stand. The floor mount stand is provided as a kit that is purchased separately from the SolarEdge Energy Bank battery.

This document lists the contents of the SolarEdge Energy Bank Floor Mount stand kit and provides a guideline for assembling the stand and securing the battery on the stand. For convenience you can view a video that guides you through the process.



Energy Bank Floor Mount Arrangement and Gross Dimensions

Where more than one battery is used for a system, multiple floor mount stands can be placed against and secured one to the other to form a battery bank. Figure 1 shows the arrangement of a bank of SolarEdge Energy Bank batteries mounted on floor stands and arranged in a row.

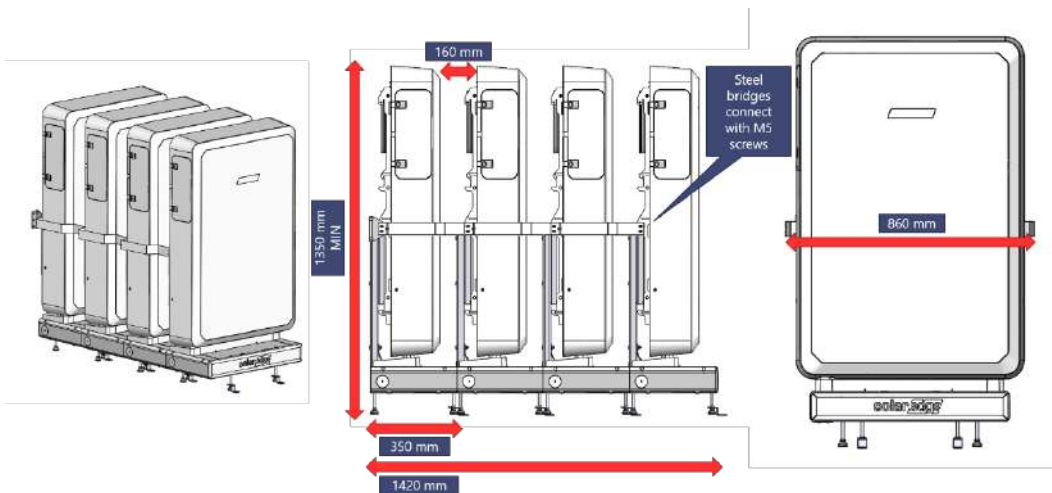


Figure 1: Energy Bank Arrangement – Perspective, Side and Front Views

Table 1: Stand and Mounted Battery Dimensions

Dimension	Minimum Measurement (mm)
Stand and Mounted Battery height	1350
Stand and Mounted Battery Width	860
Stand Depth	350
Space between Mounted Batteries	160

Floor Stand Base Mount and Back Holder

Parts for the Floor Stand Base Mount and Back Holder are supplied as part of the SolarEdge Energy Bank Floor Mount kit.

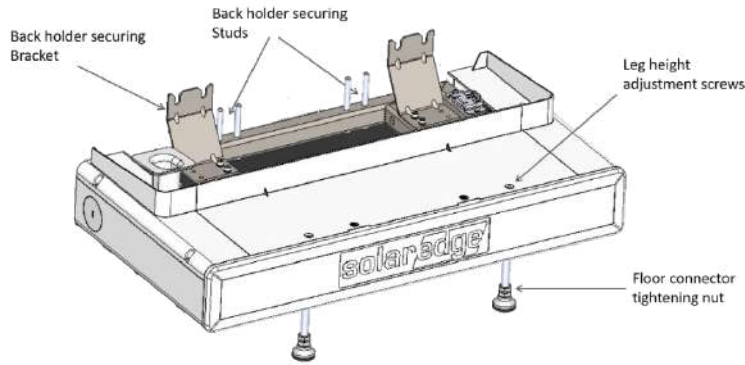


Figure 2: Base mount assembly and securing points

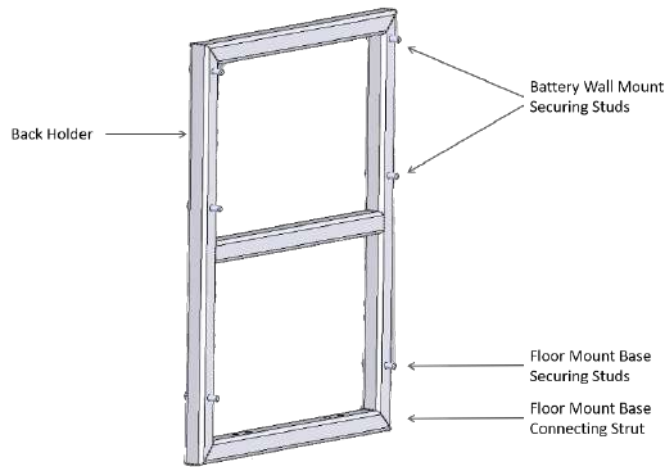


Figure 3: Back Holder

Assembled Floor Stand

The assembled floor stand includes the base and back holder as illustrated on the left in the Figure 4. The right part of the figure shows the Battery Wall Mount after being attached to the assembled floor mount stand.

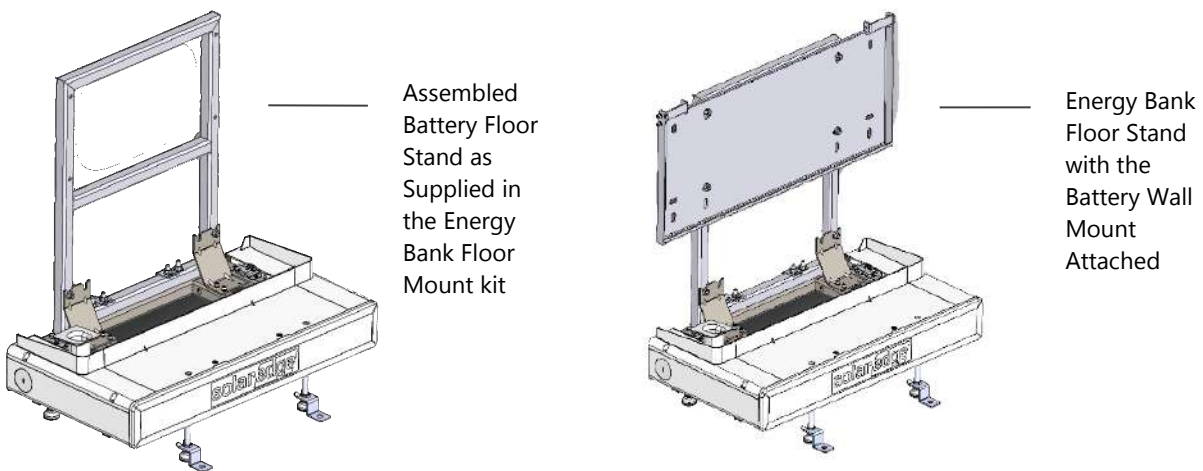


Figure 4: Assembled Floor Stand and Floor Stand with Battery Wall Mount



NOTE

The Battery Wall Mount is distributed together with the Battery and is not part of the SolarEdge Energy Bank Floor Mount kit.

Energy Bank Floor Stand Kit Parts List

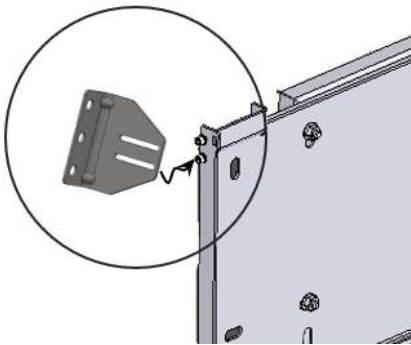
Part Number	Part Name	Part Image	Quantity
TBD	Base Mount		1
MCM-AS-00937-02	Back Holder		1
MCM-BR-00353-05	Wall Bracket		2
MCM-BR-00422-02	Side Bracket		2
MCM-MC-06694-02	Stand to Stand Connector		2
MCM-MC-05595-04	Floor Connector (for optional use)		2
MCI-NT-00109	M8 nut		10
MCI-SC-00307	Screw M5x13		6
MCI-SC-01519	Screw M5x80		2
MCI-SC-00077	Screw M5x10		2
MCP-MC-02218	decorative front cover		

Required Tools

- Power drill
- Spirit level
- Allen Keys: 5/32", 5/16", 5mm
- Drill bits
- Torque Wrench
- Wrench or Sockets: M8 / 1/2"

Assembling the Energy Bank Floor Stand

1. Unpackage the SolarEdge Energy Bank Floor Mount Stand kit and arrange the parts so you can check the parts against the parts list.
2. Move and position the floor mount base close to but not against the wall to which it will be secured. Position the base so that the front of the base is parallel to and facing away from the wall.
3. Level and set the height of the base mount using a 5mm Allen key to turn the **leg height adjustment screws** for each of floor mount base legs.
4. Hold the back holder so that the six studs are facing toward you and the connecting strut with four holes is at the bottom.
5. Lower the back holder over the four connecting studs located at the rear of the base. As you do this, the two lower studs on the Back Holder must sit in the outer slots of the Back Holder Securing Bracket.
6. Loosely screw the M8 (1/2") nuts onto each of the back holder and base studs to hold the back holder in place. Fully tighten at 17Nm/150 in lb to finally secure the back holder.
7. Hold the wall mount, front facing you, and position the mount on the securing studs of the back-holder's battery mounting bracket.
8. Loosely screw an M8 (1/2") nut onto each of the four back holder studs to hold the wall mount in place and then fully tighten at 17Nm/150 in lb to finally secure the wall mount as shown in Figure 4.
9. Use the M5 (5/32" Allen) short screw to attach the lower slot of the wall bracket to each side of the wall mount and then position the Floor Mount against the wall.



10. Use the holes in the wall bracket to mark the position on the wall for three attachment holes on each side. Move the Floor Mount aside to allow access to drill. Drill the holes, reposition the Floor Mount and attach the wall brackets to the wall.
11. (Optional) Insert a floor connector bracket between the bracket securing nut and the foot of each leg. Position the floor connector bracket and mark a drilling hole. Remove the bracket and drill the floor attachment holes.



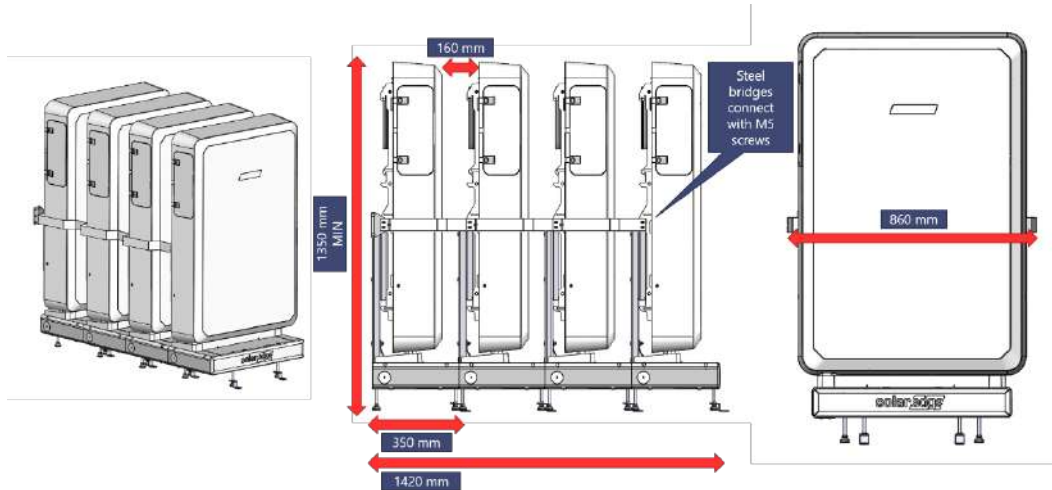
CAUTION!

Attaching the Floor Connector Brackets is optional. This step should be only be performed after determining that doing so does not:

- Breach any local or national safety codes.
- Damage any infrastructure built into the floor. For example, sealing, plumbing lines or floor heating systems.

12. Position and hang the battery on the wall mount.
13. Check that the battery is turned off.
14. Open the wiring gutter on the left side of the floor mount base and lay the wires in place. Pass the cables through the wiring sleeve on the top left side of the floor mount base and connect to the battery. If installing more than one battery per inverter, use branch connectors. See the [Energy Bank Quick Installation Guide](#).
15. Insert and loosely tighten the long m5 wall bracket securing screw in the upper wall bracket slot on each side. The long securing screw threads through the battery housing and acts a safety suspension pin.
16. Recheck that the stand is level and if necessary fine tune the height of the legs until the stand is level.

17. In case the floor stand is being optionally fastened to the floor, replace the floor connector brackets, and position them over the drilled hole. Secure to the floor at 17Nm/150 in lb and then tighten the M10 (11/16") bracket securing nuts on each leg also at 17Nm/150 in lb.
18. Tighten the two Wall Bracket screws M5 (5/32" Allen) on each wall bracket at 17Nm/150 in lb.
19. Assemble the decorative cover.
20. If installing more floor stands arranged front to back , position the additional base mount against the front of the already positioned base mount and repeat the floor mount assembly process for steps 1-8. The figure indicates how the batteries are arranged and attached to each other.



21. Attach the Stand to Stand connectors from the front of the rear base mount to the two internal base mount studs and tighten the M8 (1/2") nuts to secure the front base mount to the rear base mount.
22. Disregard the steps that refer to the wall bracket and continue from step 11 to mount the battery, wire the battery, attach the decorative cover, and then secure the two batteries to each other using M5 screws to attach a side bracket to each side of the battery.
23. You can reverse the positioning of the floor connector bracket for the last floor stand in the bank so that the connector is hidden under the front of the stand. This prevents the floor connector bracket from getting in the way of anyone walking around the battery stand. This step is optional, see the caution [Optional Floor Connector](#).
24. Clip the gutter cover to the base.
25. Screw the front decorative logo to the base.

Note

Use the QR-Code to view a video that shows you how to wire and chain up to 3 batteries together on floor stands.



SolarEdge Home Battery Low Voltage

Used with SolarEdge inverters



Quick Installation and Operation Guide for Europe

Unpacking and mounting video



Wiring video



Battery Installation Manual



Emergency Response guide, including emergency phone numbers



Safety Datasheet



Battery Datasheet

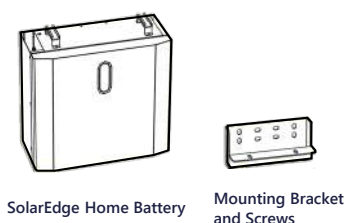


Support Contact Information

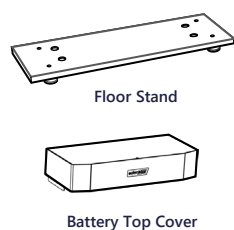
In case of any technical issues with SolarEdge products, please contact us at:
<https://www.solaredge.com/service/support>

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What's in the Package



Ordered Separately

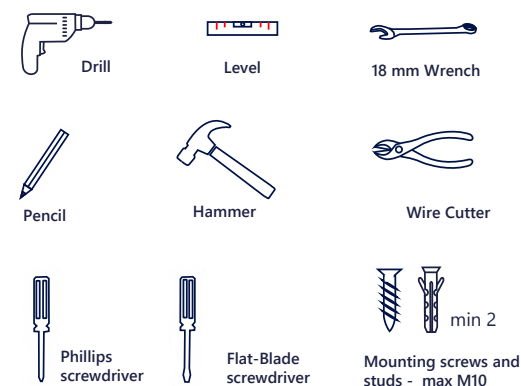


Available Cables	Available Cables		
	Battery to Battery	Tower to Tower	Battery to inverter
DC cables	57cm	260 cm	260 cm
Ground cable	55cm	170 cm	260 cm
Communication cable	57cm	170 cm	260 cm

Required Personnel



Tools and Materials



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.

WARNING! Before installing or operating the SolarEdge Home Battery, read the Safety and Handling instructions at the back of this page.

1 Turning off the Battery Power

WARNING! Make sure that the circuit breakers of the battery are in the OFF position and all LEDs are turned off

3 Floor Stand Positioning and Leveling

WARNING! Mount the battery on a stable surface

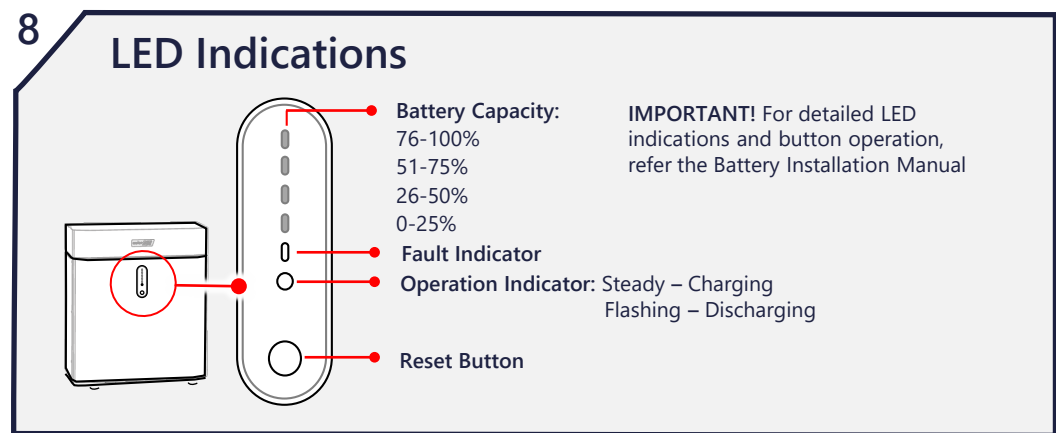
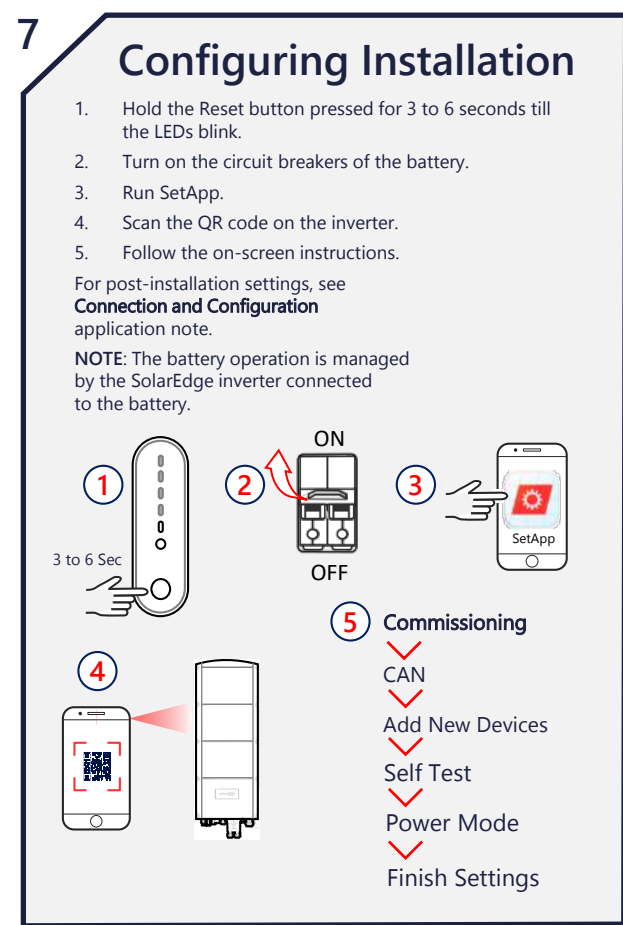
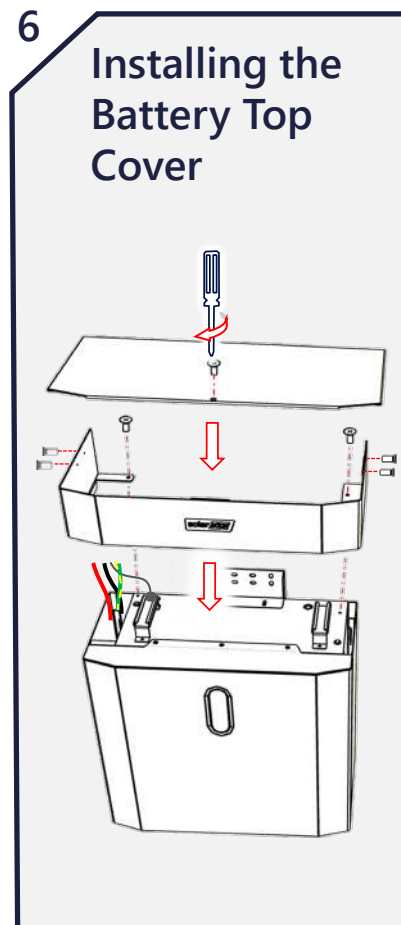
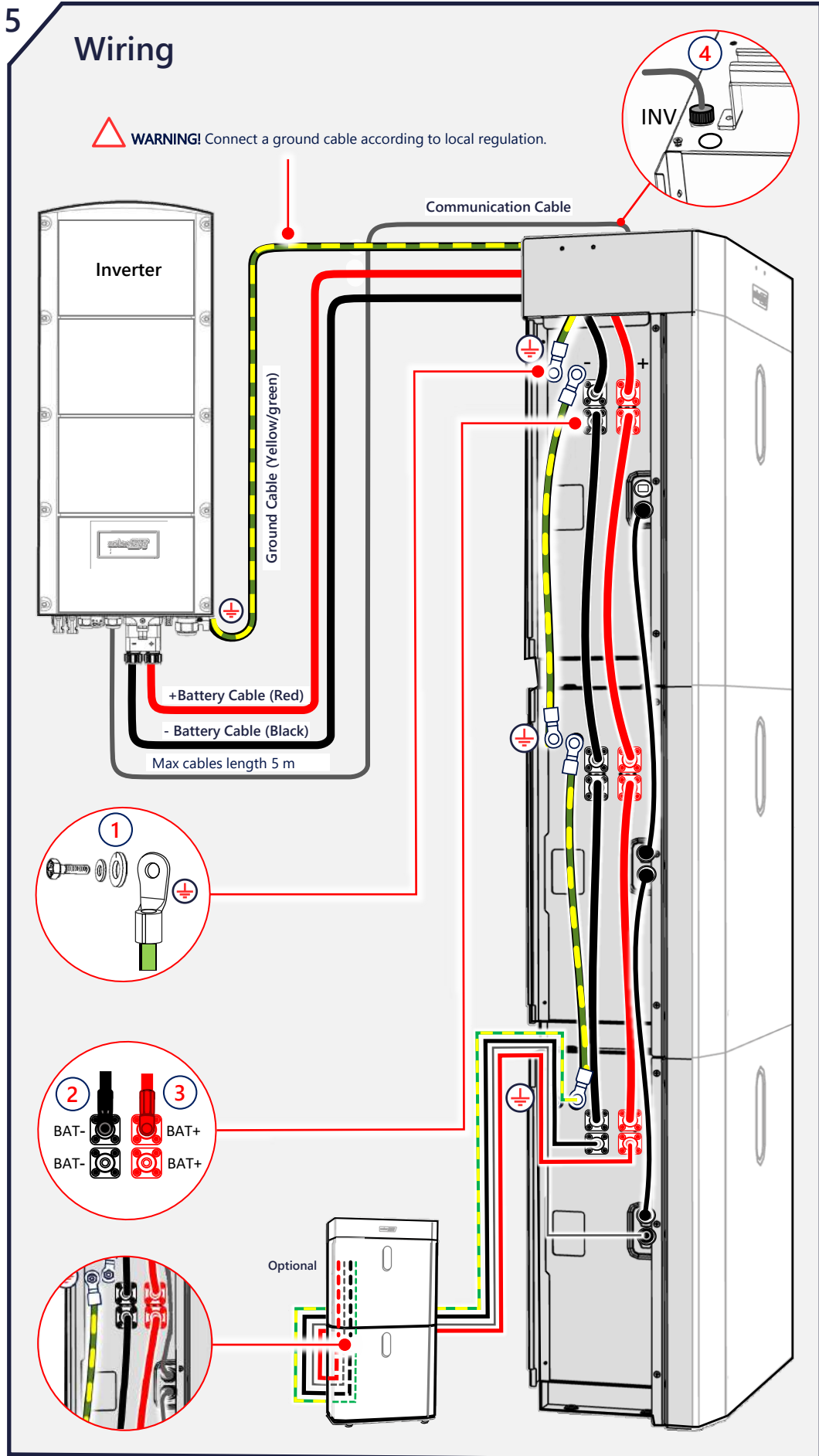
NOTE: Before installing batteries on top of each other, checked that the max tilt of the wall is 1.5%

2 Planning and Considerations

WARNING! Connect no more than 5 batteries per inverter. Use no more than 3 batteries per battery tower.

4 Installing the Mounting Bracket


NOTE: Use a minimum of two wall screws to install the bracket. Use additional screws to reinforce installation according to wall condition.



Operation

- The Battery contains rechargeable lithium-ion cells that are potentially hazardous and can present a serious fire hazard, injury and/or property damage if damaged, defective or improperly used.
- In case of an electrolyte leak from the Battery, avoid contact with electrolyte and follow the instructions in the *SolarEdge Home Battery – Emergency Response Guide*.

Emission Compliance

- Changes or modifications not expressly approved by SolarEdge for compliance may void the user's authority to operate the Battery.
- Use the Battery only as directed in this document.
- Do not use the Battery if it is defective, appears cracked, broken, or otherwise damaged, or fails to operate.
- The Battery and its components are not user-serviceable.
- Do not attempt to open, disassemble, repair, tamper with, or modify the Battery. The Battery cells are not replaceable.
- Do not operate the Battery at ambient temperatures of above 50°C/122°F or below -10°C/14°F. Operating the Battery in temperatures outside the specified range might cause damage to the Battery.
- Do not expose the Battery or its components to direct flame.
- Do not store or use flammable liquids or gasses in the vicinity of the Battery.
- Do not place any combustible items in the vicinity of the Battery.
- If the Battery catches fire, or if fire breaks out near the Battery, call the fire department immediately and follow the instructions in the *SolarEdge Home Battery – Emergency Response Guide*.
- The Battery is prone to re-ignition after extinguishing. Use caution and follow the emergency response instructions.
- Do not immerse the Battery or its components in water or other fluids.
- Charge and discharge voltage: 44.8-56.5 Vdc.
- Do not use solvents to clean the Battery or expose the Battery to flammable or harsh chemicals or vapors.
- Do not use fluids, parts, or accessories other than those specified in this guide, including use of non-genuine SolarEdge parts or accessories, or parts or accessories not purchased directly from SolarEdge or a SolarEdge certified party.
- After the installation, do not place the Battery in storage conditions for more than one (1) month, or permit the power feed to the Battery to be discontinued for more than one (1) month.
- Do not paint any part of the Battery, including any internal or external components such as the exterior shell or casing.
- Ensure that snow does not accumulate around the Battery.
- A non-functioning Battery must be handled with caution. The Battery state of charge and risk of venting may be unknown. Contact SolarEdge for assistance.
- Do not attempt to remove or transport a damaged or non-functioning battery. Contact SolarEdge or your SolarEdge certified installer for support.
- This symbol  on the product means: Do not dispose of this product with general household waste. Consult your local regulations for proper disposal instructions.

SAFETY AND HANDLING INSTRUCTIONS

Read this entire document before installing or operating the SolarEdge Home Battery (referred to as the "Battery"). Failure to do so or to follow any of the instructions or warnings in this document can result in electrical shock, serious injury, or death, or may damage the Battery and other property. Do not discard this document! After installation, keep it adjacent to the Battery for future reference!

Installation

- Install the battery according to national and local codes and standards and in locations compliant with local building codes and standards.
- The Battery installation must be carried out only by qualified electricians who have been trained in handling low voltage electricity works.
- The Battery is heavy. Adhere to local regulations for material handling and heavy lifting, when installing heavy equipment.
- Do not install the Battery in habitable spaces, including sleeping rooms.
- Make sure the mounting surface can sustain the total weight of the Battery and mounting bracket.
- Do not install the Battery, if it has been dropped, crushed, or has signs of physical damage.
- When the Battery is installed in a residential environment, fire detection and protection equipment must be installed in accordance with local building and fire codes.
- Do not install the Battery near heating equipment, ignition sources, or open flames.
- Install the Battery only on non-combustible surfaces and under non-combustible ceilings, overhangs, or eaves.
- Do not install the Battery in proximity to gas meters, valves, regulators, lines, or gas appliances. Follow local codes. However, 2m / 6ft or more spacing is highly recommended. A failing battery may ignite flammable gasses resulting in property damage, serious injury, or death.
- Avoid installing the Battery in direct sunlight.
- Install the Battery in a location protected from flooding.
- Do not install the Battery in the vicinity of water sources, including downspouts, sprinklers, or faucets.
- When installing the Battery in a garage or near vehicles, keep it out of the driving path. If possible, install the Battery on a side wall and/or above the height of vehicle bumpers.
- Before beginning the wiring, ensure that the Battery is switched off. Also, make sure that the DC safety switch of all inverters in the PV system is turned off.



Installation Guide

Home Battery 48V Installation Guide

with SetApp Configuration

For Europe and APAC

Version 1.0



Iris Hellas
Technology Innovations
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Disclaimers

Important Notice

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The content of these documents is continually reviewed and amended, where necessary. However, discrepancies cannot be excluded. No guarantee is made for the completeness of these documents.

The images contained in this document are for illustrative purposes only and may vary depending on product models.


This manual describes installation of the SolarEdge Home Battery 48V . Read this manual before you attempt to install the product, and follow the instructions throughout the installation process. If you are uncertain about any of the requirements, recommendations, or safety procedures described in this manual, contact SolarEdge Support immediately for advice and clarification. The information included in this manual is accurate at the time of publication. However, the product specifications are subject to change without prior notice. In addition, the illustrations in this manual are meant to help explain system configuration concepts and installation instructions. The illustrated items may differ from the actual items at the installation location.

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Revision History

Version 1.0 (June 2022)

 First version of this guide

Handling and Safety Instructions

Read these instructions carefully before installing or operating the SolarEdge Home Battery 48V (referred to as the *Battery* or *Battery Pack*). Failure to do so or to follow any of the instructions or warnings in this document can result in electrical shock, serious injury, or death, or may damage the battery and other property.

Failure to abide by these instructions may void your warranty!

Do not discard this document! After installation, keep it adjacent to the battery for future reference!

Installation

WARNING!



Install the battery according to national and local codes and standards and in locations compliant with local building codes and standards.

WARNING!



The battery installation must be carried out only by qualified electricians who have been trained in handling low voltage electricity works.

WARNING!



The battery module is heavy. Adhere to local regulations for material handling and heavy lifting, when installing heavy equipment.

WARNING!



Do not install the battery in habitable spaces, including sleeping rooms.

WARNING!



Make sure the mounting surface can sustain the total weight of the battery module and mounting bracket.

WARNING!



Do not install the battery, if it has been dropped, crushed, or has signs of physical damage.

WARNING!



When the battery is installed in a residential environment, fire detection and protection equipment must be installed in accordance with local building and fire codes.

WARNING!



Do not install the battery near heating equipment, ignition sources, or open flames.

WARNING!



Install the battery only on non-combustible surfaces and under non-combustible ceilings, overhangs, or eaves.

WARNING!

Do not install the battery in proximity to gas meters, valves, regulators, lines, or gas appliances. Follow local codes. However, 2m or more spacing is highly recommended. A failing battery may ignite flammable gasses resulting in property damage, serious injury, or death.

**WARNING!**

Avoid installing the battery in direct sunlight.

**WARNING!**

Install the battery in a location protected from flooding.

**WARNING!**

Do not install the battery in the vicinity of water sources, including downspouts, sprinklers, or faucets.

**WARNING!**

When installing the battery in a garage or near vehicles, keep it out of the driving path. If possible, install the battery on a side wall and/or above the height of vehicle bumpers.

**WARNING!**

Before beginning the wiring, ensure that the battery is switched off. Also, make sure that the DC safety switch of all inverters in the PV system is turned off.

Operation

WARNING!

The battery contains rechargeable lithium-ion cells that are potentially hazardous and can present a serious fire hazard, injury and/or property damage if damaged, defective or improperly used.

**WARNING!**

Lithium-ion batteries and products that contain lithium-ion can expose you to chemicals, including antimony trioxide, cobalt lithium nickel oxide, and nickel.

**WARNING!**













In case of an electrolyte leak from the battery, avoid contact with electrolyte and follow the instructions in the SolarEdge Home Battery 48V Emergency Response Guide.






**WARNING!**

Use the battery only as directed in this document.

**WARNING!**

Do not use the battery if it is defective, appears cracked, broken, or otherwise damaged, or fails to operate. The battery and its components are not user-serviceable.

-  **WARNING!**
Do not attempt to open, disassemble, repair, tamper with, or modify the battery. The battery cells are not replaceable.
-  **WARNING!**
Do not operate the battery at ambient temperatures of above 50°C or below -10°C.
-  **WARNING!**
Do not expose the battery or its components to direct flame.
-  **WARNING!**
Do not store flammable liquids or gasses in the same room with the battery. When the battery is installed outdoors, keep any flammable liquids or gasses at a distance of at least 15m from the battery.
-  **WARNING!**
Do not place any combustible items within less than 2m of the battery.
-  **WARNING!**
If the battery catches fire, or if fire breaks out near the battery, call the fire department immediately and follow the instructions in the SolarEdge Home Battery 48V Emergency Response Guide.
-  **WARNING!**
The battery is prone to re-ignition after extinguishing. Use caution and follow the emergency response instructions. .
-  **WARNING!**
Do not immerse the battery or its components in water or other fluids.
-  **WARNING!**
Operating the battery in temperatures outside the specified range might cause damage to the battery.
-  **WARNING!**
Do not use solvents to clean the battery, or expose the battery to flammable or harsh chemicals or vapors.
-  **WARNING!**
Do not use fluids, parts, or accessories other than those specified in this guide, including use of non-genuine SolarEdge parts or accessories, or parts or accessories not purchased directly from SolarEdge or a SolarEdge certified party.
-  **WARNING!**
After the installation, do not place the battery in storage conditions for more than one (1) month, or permit the power feed to the battery to be discontinued for more than one (1) month.




-  **WARNING!** Do not paint any part of the battery, including any internal or external components such as the exterior shell or casing.
-  **WARNING!** Ensure that snow does not accumulate around the battery.
-  **WARNING!** A non-functioning battery must be handled with caution. The battery state of charge and risk of venting may be unknown. Contact SolarEdge for assistance.
-  **WARNING!** Do not attempt to remove or transport a damaged or non-functioning battery. Contact SolarEdge or your SolarEdge certified installer for support.
-  **WARNING!** Do not dispose of this product with general household waste. Consult your local regulations for proper disposal instructions.
-

Installation Tools




Make sure you have the following tools, before starting the installation:

-  Crimping tool
-  Torque wrench
-  Drilling machine
-  Level
-  Phillips screwdriver
-  Flat-blade screwdriver
-  Cable cutter
-  Wall plugs and screws
-  Hammer

Charging cable requirements

-  Conductor cross section - 35mm²
-  Outer diameter 14-21mm
-  maximum cable length 5m

What's in the Package

-  Battery module
-  Mounting bracket
-  2 x M5 screws

Battery accessories

SOLAREEDGE HOME BATTERY - ACCESSORIES (PURCHASED SEPARATELY)	
DESCRIPTION	PN
Accessory SolarEdge Home Battery 48V , mechanical top cover (1 required per tower)	IAC-RBAT-5KMTOP-01
Accessory SolarEdge Home Battery 48V to SolarEdge Home Hub Inverter – Three Phase (PN SE*K-RWB48)	IAC-RBAT-5KCINV-01
Accessory SolarEdge Home Battery 48V cable set SolarEdge Home Battery 48V to SolarEdge StorEdge Inverter –Three Phase (PN SE*K-RWS)	IAC-RBAT-5KCINV-02
Accessory SolarEdge Home Battery 48V , cable set battery module to battery module	IAC-RBAT-5KCBAT-01
Accessory SolarEdge Home Battery 48V , cable set tower to tower	IAC-RBAT-5KCTOW-01
Floor stand support SolarEdge Home Battery 48V (optional)	IAC-RBAT-5KFSTD-01
Accessory 10 * Spare connector kit for battery to Inverter connection, SolarEdge Home Battery 48V	IAC-RBAT-5KCNCT-01
Accessory 10 * Spare connector kit for tower to tower connection, SolarEdge Home Battery 48V	IAC-RBAT-5KCNCT-02

Selecting and Preparing the Installation Site

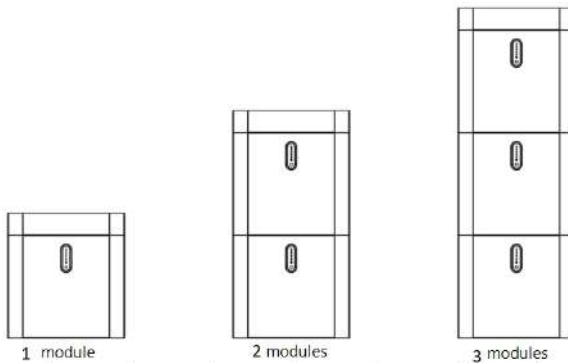
Make sure to observe the following requirements, when selecting an installation site.

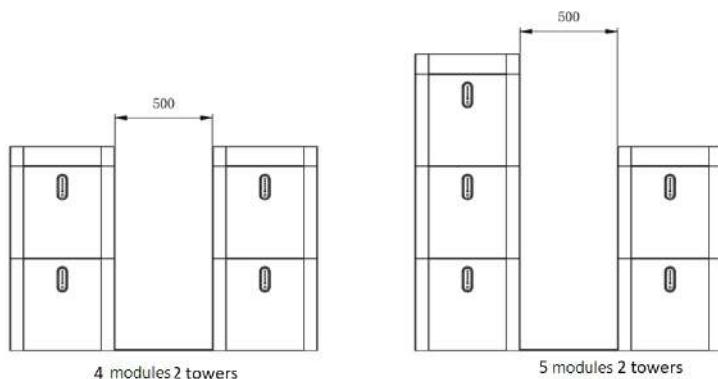
Configurations

The term *Battery module* refers to a single battery. The term *Battery Tower* or *Tower* refers to a number of modules stacked on top of each other and connected in parallel. The term *Battery pack* or *Battery* refers to all the battery modules connected to each other and to the same inverter, in one or two towers.

Connect up to 5 battery modules in two towers (maximum 3 in a tower).

Content	PN	Number of Towers						
		1			2			
		1 battery	2 batteries	3 batteries	2 batteries	3 batteries	4 batteries (3+1 or 2+2)	5 batteries (3+2 or 4+1)
Battery pack with	BAT-05K48M0B-01	1	2	3	2	3	4	5
Tower cover with 5 screws	IAC-RBAT-5KMTOP-01	1	1	1	2	2	2	2
Battery to battery cable kit (same tower)	IAC-RBAT-5KCBAT-01	0	1	2	0	1	2	3
Tower to tower cable set	IAC-RBAT-5KCINV-01	0	0	0	1	1	1	1
Battery to inverter cable set	IAC-RBAT-5KCTOW-01	1	1	1	1	1	1	1
Floor support stand(recommended)	IAC-RBAT-5KFSTD-01	1	1	1	2	2	2	2





General Guidelines and Requirements

- The battery may be installed in an outdoor or indoor location.
- Since the battery must be secured to a wall using the supplied mounting bracket, the installation location must be adjacent to a wall.
- When installed indoors, the battery must not be obstructed by any building structure, room furniture or equipment.
- The battery shall not be exposed to direct sun or rain.
- Since the battery has natural convection, the installation site must be clean, dry and well ventilated.
- The installation location must allow easy access to the battery for installation and maintenance.
- The front panel or battery module should not be covered.

Restricted Locations

Do not install the battery at any of following locations:

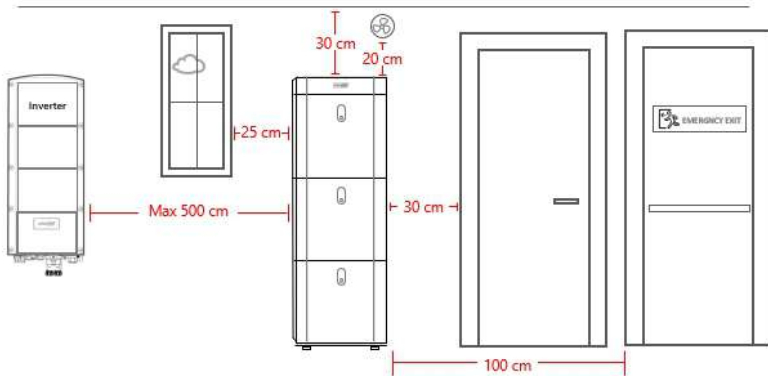
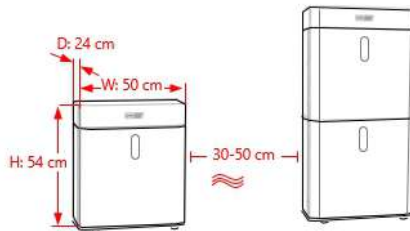
- residential rooms
- wall or ceiling niches
- entrance/exit areas or below a staircase/passage
- environments with humidity and condensed water level of over 90%
- earthquake zones where additional safety measures are required
- sites at altitudes of more than 2000 meters above the sea level

- sites exposed to direct sunlight or sites where the ambient temperature may exceed the specified maximum temperatures
- near flammable materials or gases or explosive environments

Clearance

Observe the following minimum clearance:

- 20 cm from all sides of the battery module



- 30 cm from another battery module or any heat source, such as water heater unit, gas-fueled heater, air conditioning unit or any other equipment
- 100 cm from emergency exits
- 30 cm from doors
- 20 cm from windows or air vents
- 20 cm from other devices

Residential Barrier

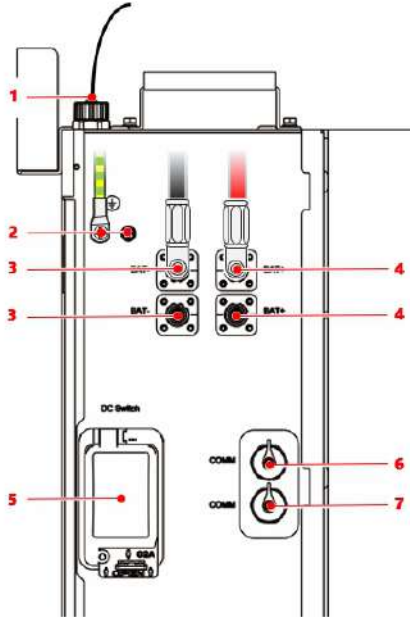
In order to prevent a fire from spreading, install a non-combustible barrier on the other side of the wall or structural surface, on which the battery is installed. If the installation surface is not made of a non-combustible material, a non-combustible barrier can be installed between the battery and the wall or structural surface.

If the Battery pack is installed on a wall or at a distance of 300mm from the wall that isolates the energy storage system from a residential space, the distance from other structures or objects must be increased.

Installing the Battery Modules

Battery description

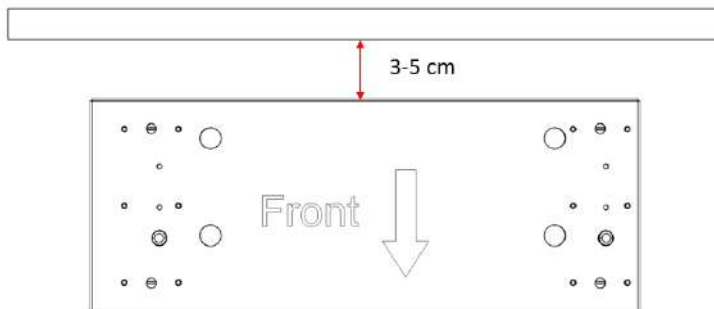
Figure below shows the single battery module with completed connections.



1	CAN-bus (RJ45) connection to inverter communication	5	Circuit breakers, 120A
2	Grounding terminal	6	RS485 Communication socket to connect the battery module above to this battery module (in a battery tower)
3	DC bat - connector	7	RS485 Communication socket to connect the battery module below to this battery module (in a battery tower)
4	DC bat + connector		

Installation procedure

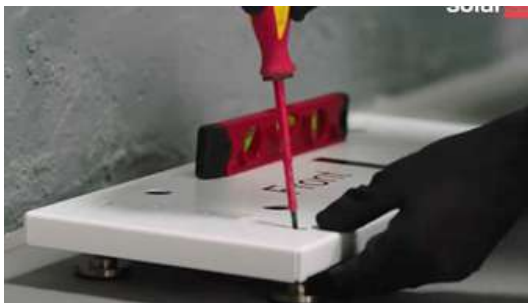
1. Install a floor stand (recommended by SolarEdge). Depending on wall leveling, consider when installing more than one module.
 - a. Place the floor stand at a distance of 3-5cm from the wall.



NOTE

The arrow should point at the battery module front.

- b. To level the floor stand, adjust each of the four legs by turning the screw using a flat screwdriver.

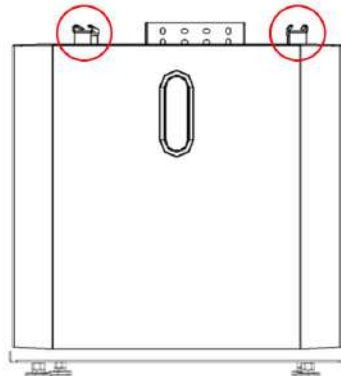


- c. When the floor stand is balanced, tighten the nut with an open wrench in order to secure the leg's height, then close the nut.

**CAUTION!**

Before moving the battery module to its location, make sure that both the CB switch and the power button (soft switch) of the battery module are off – refer to *Connecting a Single Battery Module* on page 19.

2. Take the battery module out of the box, move it to the installation location. You can use the battery handles located at the top of the battery for convenience of moving and placing it on the the right position.
3. Place the battery module on the floor stand using the top handles.



4. Put the bracket on the wall, mark the drilling holes location, then remove the bracket and drill holes in the wall.



NOTE

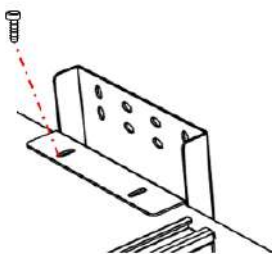
Don't drill through the bracket.

- Assemble the supplied mounting bracket to the battery module using two M5 screws. Tighten the screws to a torque of 2.5Nm.

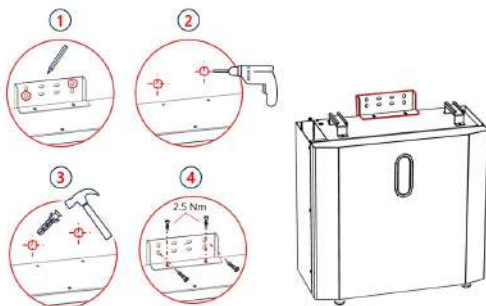
NOTE



For better cable routing, use the mounting bracket oval hole in a way to enable the maximum available distance between the battery module and the wall.

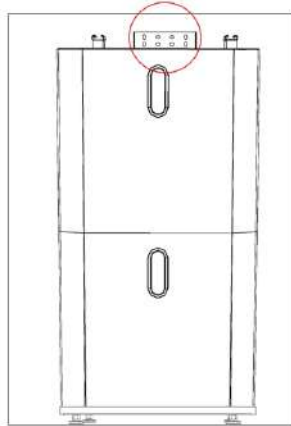


- Secure the battery module to the wall with screws and wall plugs. When using only two screws, make sure to use the two outer screws diagonally as shown on the figure below.



- When installing battery modules in a tower configuration (one on top of the other):
 - Before securing the wall brackets, make sure the battery modules are aligned (see the figure below).

- Secure all battery modules to the wall as described above.
- Note that the maximum allowed amount of battery modules in a tower is three.



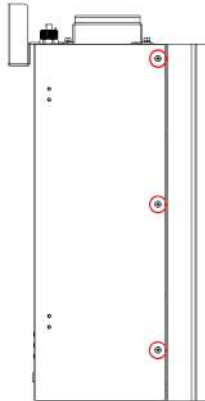
Connecting a Single Battery Module

If you are installing a single battery module, connect it to the inverter as follows:

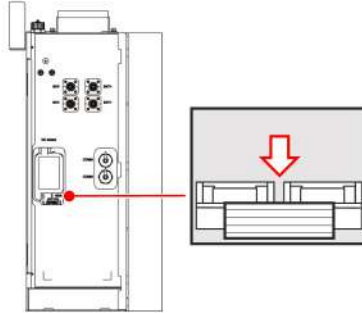
1. Make sure the battery module's DC switch is off.
2. Before connecting the cables to the inverter, make sure the accessory kit is on the correct length. If you need longer cable, you will have to crimp the connectors yourself using one of the following kits:

IAC-RBAT-5KCNCT-01	10 DC connectors (red) – battery side 10 DC connectors (black) – battery side 10 RJ45 connectors – inverter side 10 waterproof RJ45 – connectors
IAC-RBAT-5KCNCT-02	20 DC connectors (red) 20 DC connectors (black) 20 waterproof RJ45 connectors

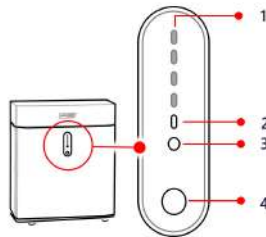
3. Release the three screws and slide the side door, that covers control interfaces on the left side of the battery module, to allow clear and secure access to the battery module interfaces.



4. Before continuing with the installation, make sure the battery is OFF, then make sure that the front panel LEDs are OFF. If the battery is on, use the following procedure to turn it off:
 - a. To turn off the battery module circuit breaker, remove the cover screw, click the door open, turn off the circuit breaker.

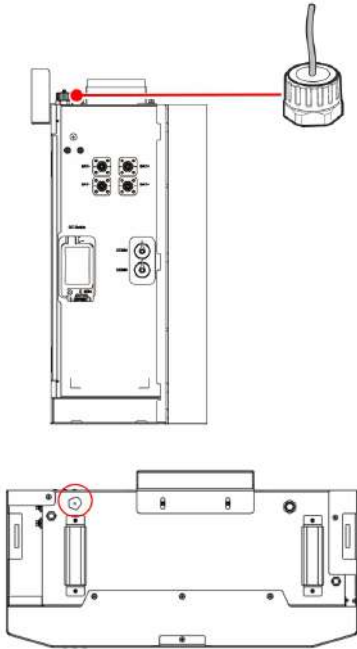


- b. Press the power button (soft switch) for 3-6 seconds until the indicator lights go out.

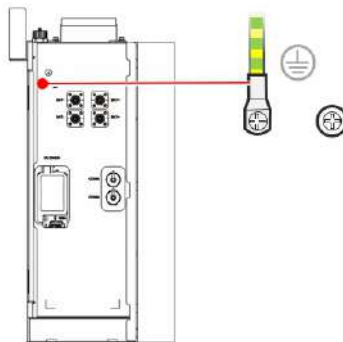


1	Battery Capacity/ Alarm ID
2	Indication LED
3	Operation Indicator
4	Power/Reset Button

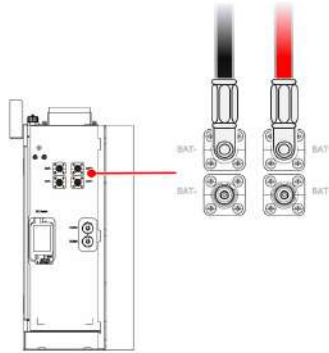
- 5. Connect the CAN-bus communication cable (RJ45) coming from the inverter, with the top battery module connector.



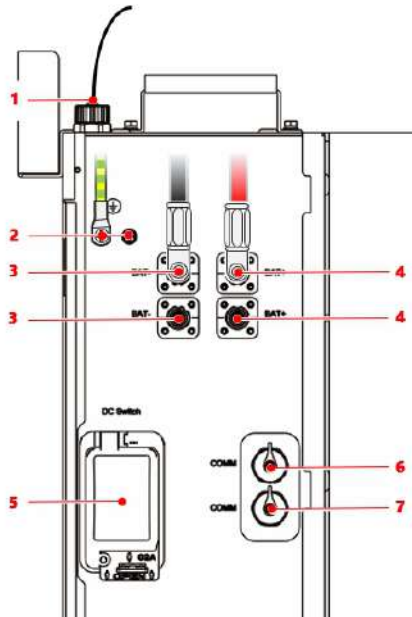
- 6. Use the left grounding terminal to connect the battery module, depending on the local regulation, to the inverter grounding or to the main grounding.



7. Use the upper pair of DC connectors (BAT- and BAT+) to connect power from the inverter. Note the polarity. Insert the connectors until you hear a click.

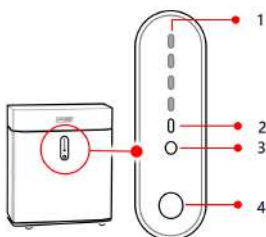


8. Figure below shows the single battery module with completed connections.



1	CAN-bus (RJ45) connection to inverter communication	5	Circuit breakers, 120A
2	Grounding terminal	6	RS485 Communication socket to connect the battery module above to this battery module (in a battery tower)
3	DC bat - connector	7	RS485 Communication socket to connect the battery module below to this battery module (in a battery tower)
4	DC bat + connector		

9. Using the power button (soft switch), turn on the battery modules, refer to *Powering on the Battery Module* on page 27. Press the power button (soft switch) shown on the figure below for 3-6 seconds, the LEDs will light. If this is a new battery (e.g. not RMA) only the first green LED or the first and second green LED should light constantly. No other LEDs should light. If you observe a different LEDs sequence, refer to *LED Indications* on page 1 for LED troubleshooting, or contact SolarEdge support with the Battery module SN and the LED sequence. Until this is solved, do not proceed with the installation.



1	Battery Capacity/ Alarm ID
2	Indication LED
3	Operation Indicator
4	Power/Reset Button

CAUTION!

Before turning on the battery module circuit breaker, make sure that the cables to the inverter are connected, with the DC cables, to the inverter at the right polarity. Failing to do so, may cause either the battery or the inverter to malfunction.

10. Turn on the battery module circuit breaker.
11. Close the side door and route all the cables above the door.
12. Fasten the side door with the three screws.

Connecting Multiple Battery Modules

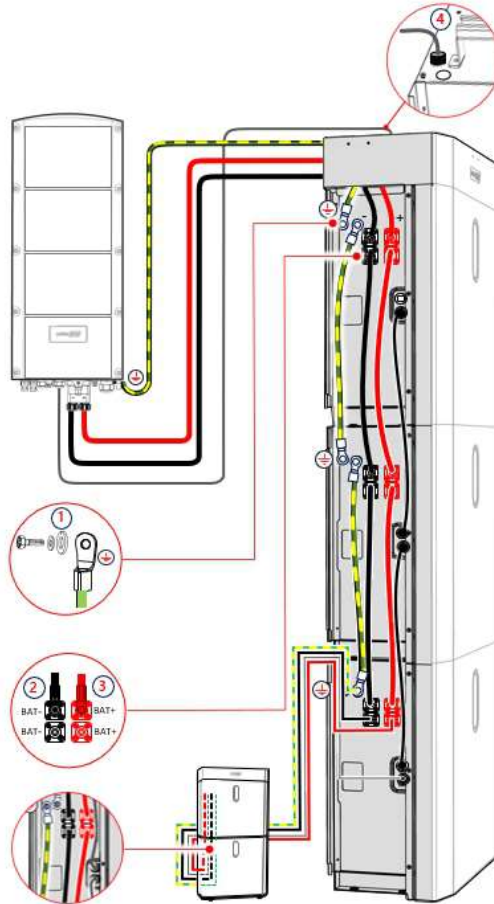


CAUTION!

Before connecting additional modules, make sure the CB and the LEDs are OFF.

When installing multiple battery modules, connect them in parallel. Contact SolarEdge or your distributor to order the appropriate cable kit for your configuration. For cable kits and accessories, see *What's in the Package* on page 9.

1. Open the side doors of the battery modules.
2. We recommend to turn off the power button (soft switch) in all battery modules.
3. Connect the DC, communication and grounding cables between the battery modules as shown below (example; your actual configuration may differ).



4. Connect the DC and communication cable of the first or last battery module to the inverter. See the inverter installation guide for connection instructions.

NOTE

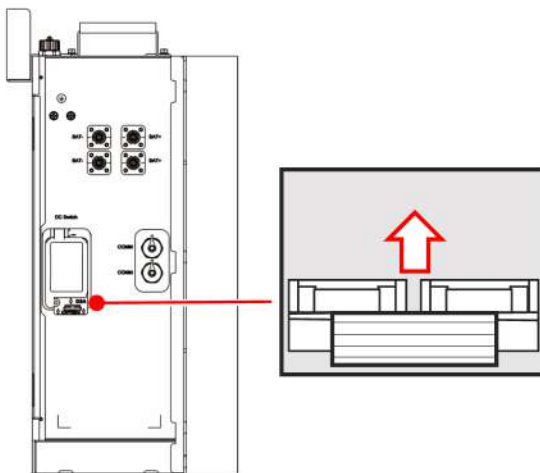


When you have two battery modules on top of each other, they are connected in a way that the top connectors of the lower battery module are connected to the bottom connectors of the upper battery module.

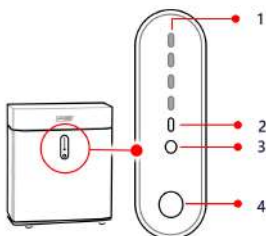
5. Fasten the side door with the three screws.

Powering on the Battery Module

1. Turn on the DC switch.



2. Press the power button for 3-6 seconds until the indicator lights are on.

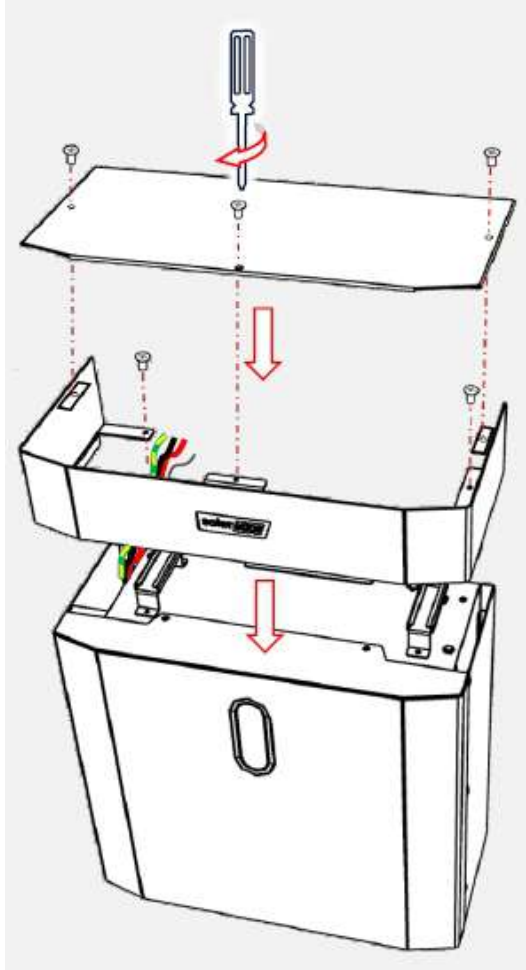


1	Battery Capacity/ Alarm ID
2	Indication LED
3	Operation Indicator
4	Power/Reset Button

Top Cover Installation

After installing the battery and making all the connections, install the top cover on the top battery module in every tower.




1. Take the top cover out of its box
2. Remove the top plate screws
3. Place the frame on top of the top battery module in the tower, secure it with the 3 screws provided in the kit
4. Assemble the top plate with the 5 screws.









LED Indications

The following section describes the LED behavior of the SolarEdge Home Battery – Low Voltage.

Mode	Behavior
Normal operation of the battery	Operational LED is ON or Blinking once NO other cases of operational LED
Alarm – there is an alarm, but battery still function	Operational LED blinks 3 times, Fault is OFF
Protection – battery have limited operation	Operational LED blinks 3 times, Fault is ON

Battery status	Mode of operation	Operation LED 	Fault LED 	Battery Level Indicator LED 
OFF	Hibernation	Off	Off	Off Off Off Off
Normal	Idle	1 blink	Off	Indicates battery SoC level
	Charge	On	Off	Indicates battery SoC level
	Discharge	On	1 blink	Indicates battery SoC level

Battery status	Mode of operation	Operation LED	Fault LED	Battery Level Indicator LED			
Alarm	Module over voltage	3 blinks	Off	On	On	On	On
	Module Under voltage	3 blinks	Off	On	On	On	Off
	Cell over voltage	3 blinks	Off	On	On	Off	On
	Cell under voltage	3 blinks	Off	On	On	Off	Off
	Charge MOS fault	3 blinks	Off	On	Off	On	On
	Discharge MOS fault	3 blinks	Off	On	Off	On	Off
	Cell over temperature	3 blinks	Off	On	Off	Off	On
	Cell under temperature	3 blinks	Off	On	Off	Off	Off
	Charging Over Current	3 blinks	Off	Off	On	On	On
	Discharge Over Current	3 blinks	Off	Off	On	On	Off
	Cell sampling fault	3 blinks	Off	Off	On	Off	On
	Heating fault	3 blinks	Off	Off	On	Off	Off
	Low SoC	3 blinks	Off	Off	Off	On	On
	Temperature sensor malfunction	3 blinks	Off	Off	Off	On	Off
	Battery Cell malfunction	3 blinks	Off	Off	Off	Off	On
Communication failure	3 blinks	Off	Off	Off	Off	Off	

Battery status	Mode of operation	Operation LED	Fault LED	Battery Level Indicator LED			
							
Protection	Short Circuit	3 blinks	On	On	On	On	On
	Charge	3 blinks	On	On	On	On	Off
	Module Over Voltage						
	Module Over current	3 blinks	On	On	On	Off	On
	Module Over voltage	3 blinks	On	On	On	Off	Off
	Module Under voltage	3 blinks	On	On	Off	On	On
	Reverse Polarity	3 blinks	On	On	Off	On	Off
	Cell Over voltage	3 blinks	On	On	Off	Off	On
	Cell Under voltage	3 blinks	On	On	Off	Off	Off
	Cell Over Temperature	3 blinks	On	Off	On	On	On
	Charge/Discharge	3 blinks	On	Off	On	On	On
	Cell Under Temperature						
	Charge/Discharge	3 blinks	On	Off	On	On	Off
	Ambient Over Temperature	3 blinks	On	Off	On	Off	On
	Ambient Under Temperature	3 blinks	On	Off	On	Off	Off
	Mosfet Over Temperature	3 blinks	On	Off	Off	On	On
	Reserved	3 blinks	On	Off	Off	On	Off
Reserved	3 blinks	On	Off	Off	Off	On	
Battery Locked	3 blinks	On	Off	Off	Off	Off	

Blink Mode	On	Off
Blinks once every 4 seconds	0.25S	3.75S
Blinks three times every 6 seconds	0.5S	1.5S

Support Contact Information

If you have technical problems concerning SolarEdge products, please contact us:



<https://www.solaredge.com/service/support>

Before contact, make sure to have the following information at hand:

- Model and serial number of the product in question.
- The error indicated on the SetApp mobile application, LCD screen, on the monitoring platform, or by the LEDs, if there is such an indication.
- System configuration information, including the type and number of panels connected and the number and length of strings.
- The communication method to the SolarEdge server, if the site is connected.
- The product's software version as it appears in the ID status screen.

solaredge

For updates, check:



Support Contact Information

In case of any technical issues with SolarEdge products, please contact us at:
<https://www.solaredge.com/service/support>



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Quick Installation Guide

v. 1.0

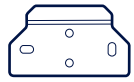
SolarEdge Home Backup Interface, Three Phase
BI-EU3P

for use with the SolarEdge Home Hub Inverter, Three Phase

What's in the Package



Backup Interface



Mounting bracket

Required Tools



Drill



Phillips screwdriver



Level



Watchmaker flat screwdriver



Torque wrench



CAT6 cable



M4, M5 Allen keys



Pencil

X 3
Mounting screws and wall plugs

SAFETY AND HANDLING INSTRUCTIONS

- Read this entire document before installing or operating the Backup Interface (also referred to as BUI). Failure to do so or to follow any of the instructions or warnings in this document can result in electrical shock, serious injury, or death, or may damage the Backup Interface and other property, it can also lead to warranty void.
- Do not discard this document! After installation, keep it adjacent to the Backup Interface for future reference!
- Before operating the Backup Interface and inverter, ensure that they are properly grounded. The Backup Interface and inverter must be connected to a grounded, metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead.
- Opening the Backup Interface and repairing or testing under power must be performed only by qualified service personnel familiar with the Backup Interface.

WARNINGS!



This symbol on the product or in the accompanying documentation 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.

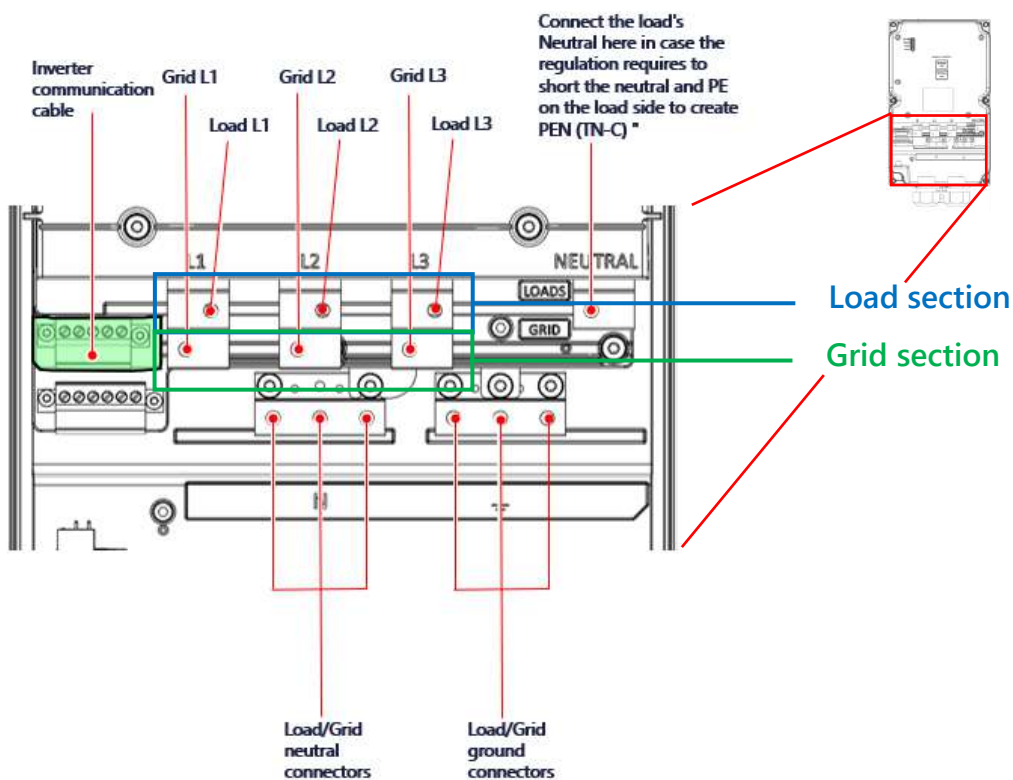


This symbol on the product denotes risk of electric shock due to stored energy. Before handling the product, wait for at least 5 seconds after disconnecting it from all sources of energy.

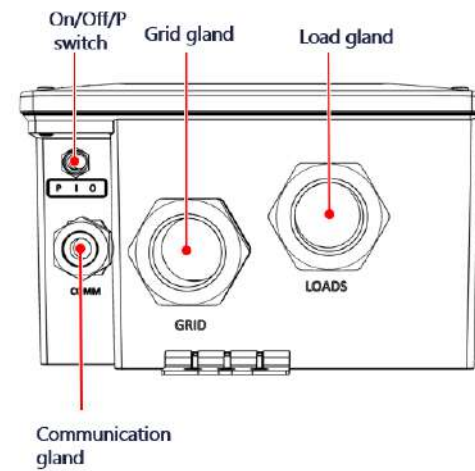


DANGER!
Before opening the covers and connecting the grid, please make sure that the main CB and the Inverters are OFF.

Main connection scheme



Bottom interface of the Backup Interface



1

Mounting the Backup Interface

- Select an installation location. Make sure you have enough space between the Backup Interface and other objects to securely access all its interfaces.
- Install the mounting bracket to the wall and secure it with 2-4 screws. If using only 2 screws, use left and right ones.
- Hang the Backup Interface on the mounting bracket.
- Hang the lower bracket on the hook behind the bottom glands, secure it to the wall with a screw.

2

Removing the covers

WARNING!
It is forbidden and dangerous to open the upper section. Only the lower section is for user interface usage.

- Using M5 Allen key, release six screws and remove the Backup Interface front cover.
- Using M4 Allen key, release two screws and remove the Backup Interface internal lower cover.
- Make sure the ON/OFF switch is in the OFF position.

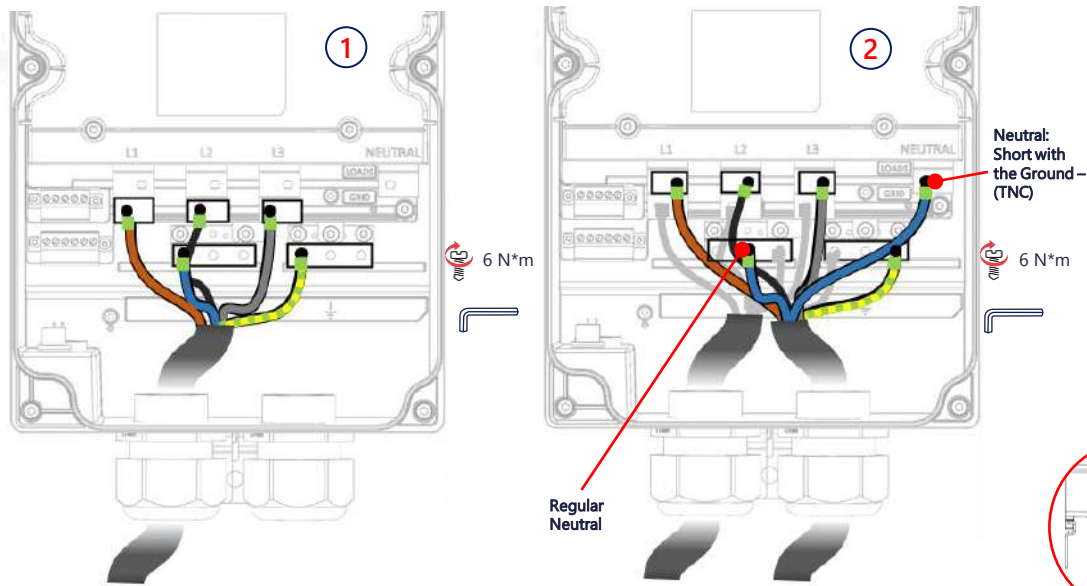
OFF

Cable

Outer diameter of 25-32mm

Cable cross section of 6²-16²mm

For the Home Hub inverter installation guide, scan



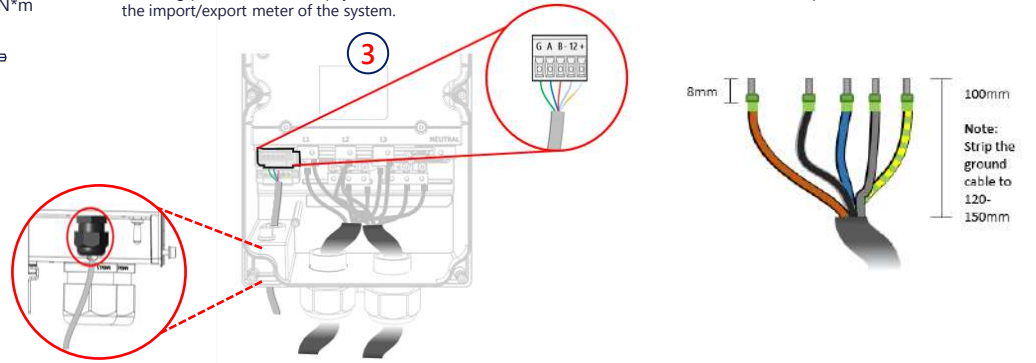
Connecting the Backup Interface



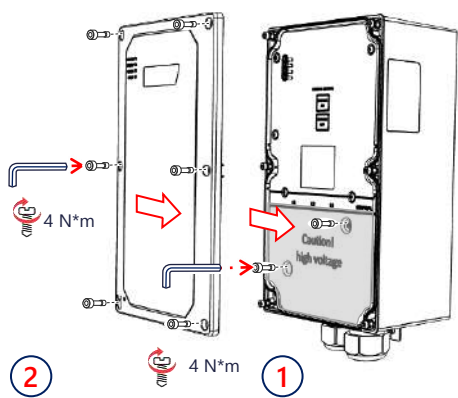
DANGER!

Before opening the covers and connecting the grid, please make sure that the main CB and the Inverters are OFF. **Note:** If your local regulations require a short between Neutral and Protective earth (e. g. according to TNC), use the upper-right terminal for the Load Neutral (see the figure below and the Main Connection Scheme).

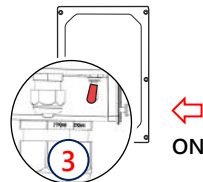
- Strip 100mm around the external **grid** cable and strip 8mm from the internal wire insulation. If needed, crimp the wire ferrules. Open the left gland marked with "Grid" and insert the grid cable. **Connect the ground wire first.** Torque – 6nm. Connect the wires Ground (yellow) L1 (brown) ,L2 (black), L3 (gray), and Neutral (blue) to their respective terminals.
- Strip 100mm around the external **load** cable and strip 8mm from the internal wire insulation. If needed, crimp the wire ferrules. Open the right gland marked with "Load" and insert the load cable. **Connect the ground wire first.** Torque – 6nm. Connect the wires Ground (yellow) ,L1 (brown) ,L2 (black), L3 (gray), and Neutral (blue) and to their respective terminals.
- If your system doesn't use solaredge home network, connect the Backup Interface to your inverter using a CAT5 E or a CAT6. Open the communication gland and insert the communication cable, close the gland. Pull out the communication connector and connect the communication cable wires to the G, A, B, and 12V +/- respectively. Please use a twisted pair connection for A and B. Connect the other side of this cable to the inverter.
- Backup Interface includes a built-in meter. If you are using full house backup, you will have to disconnect any other external export/import meter and remove it from SetApp. The internal meter must be configured as import/export. If you are using partial home backup, you will have to connect and define an external meter on the main panel and define it as the import/export meter of the system.



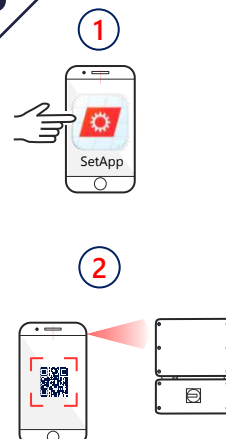
Closing the Backup Interface



- Using M4 Allen key, secure Backup Interface internal lower cover with two screws.
- Using M5 Allen key, secure Backup Interface external front cover with six screws.
- Now you can turn on the main CB and the inverter.



Configuring Installation



- Commissioning
- Power Control
- Energy Manager
- Backup Configuration
- Backup
- Enable

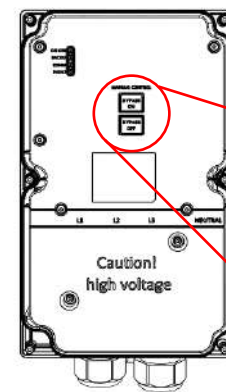
- Run SetApp.
- Scan the QR code on the inverter.
- Follow the on-screen instructions.
- Configure the import/export meter on SetApp.

Backup system checkup

Note: Before you start, make sure you have the Inverter system operating and producing with battery at above 20%. Checking the backup operation may cause 2-3 seconds of electricity supply failure to the loads before they are powered up again; if you have a load sensitive to such interruption, please disconnect it from the load backup section. Make sure the loads are evenly distributed between phases and do not exceed your inverter rating per phase.

- Make sure you have power from the grid and your inverter is working.
- Before you start, check that the Battery SoC level is above 20%.
- Make sure the Grid LED is ON and there is no fault detected. Turn OFF the main CB coming from the grid. Immediately after that, all home loads should shut down and the "On grid" LED should turn OFF.
- Wait for a few seconds till all the home loads are powered up again, the LED marked as "Backup" should turn ON.
- After a few minutes of stable operation, turn ON the main CB again.
- "Backup" LED should turn OFF and the "On grid" LED should turn on again.

Manually Switching to Grid-Connected Mode



WARNING!

Only a certified installer is permitted to perform this operation

In case the grid is back to operation, but, for some reason, the "Backup Interface" LED shows that backup is ON, you can manually connect the grid back to the loads by following the below procedure.

When the system is manually switched to the grid-connected mode, no backup of the loads is possible.

To switch to the grid-connected mode:

- Remove the Backup Interface front cover as shown above.
- Press "Bypass On" on Manual Control panel.
- Close the external cover.

LED Indications

Grid	Backup	Comm	Fault	All LEDs OFF
				No power
ON On grid or boot	ON In backup or boot	ON Connected to the network/ received modbus packet/ boot	ON Fault or boot	
OFF Backup mode	OFF On grid	Blinking There is no communication over RF or RS485	OFF No faults	
Blinking Firmware upgrade	Blinking Firmware upgrade	• On RF – not connected or temporarily disconnected	Blinking Firmware upgrade	
Fast blinking Backup interface received request to identify itself	Fast blinking Backup interface received request to identify itself	• On RS485 – no packet received for 30 seconds		
		Flickering Bootloader is upgrading software		
		Fast blinking Device received request to identify itself		

