

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

Energy Bank Floor Stand Kit Parts List 3

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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.

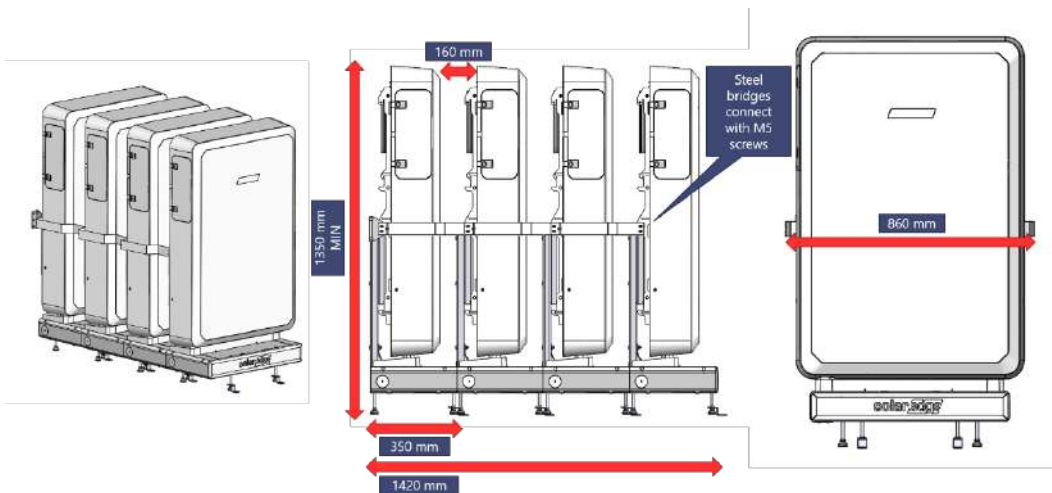


Figure 1: Energy Bank Arrangement – Perspective, Side and Front Views

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.

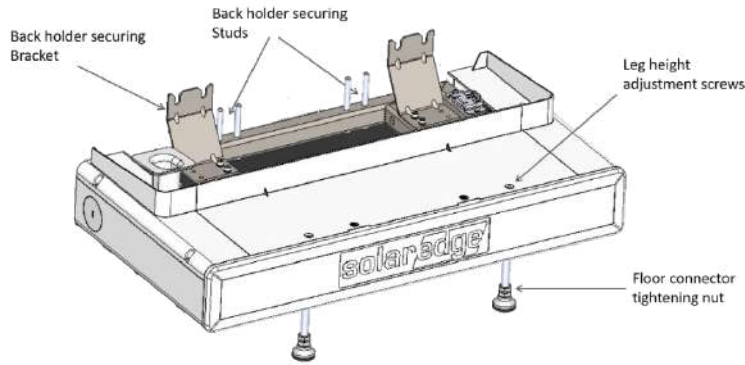


Figure 2: Base mount assembly and securing points

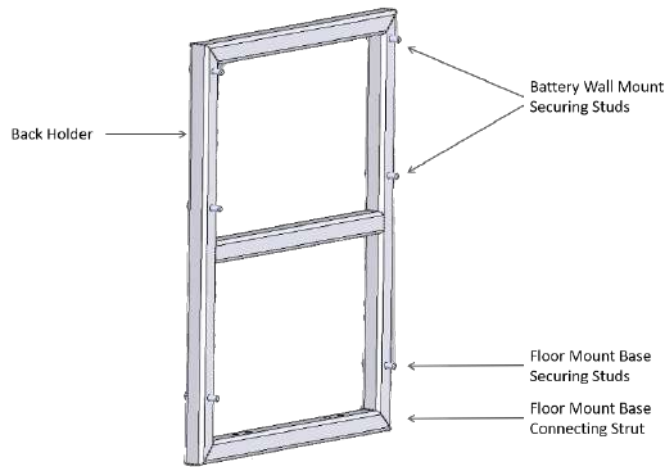


Figure 3: Back Holder

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.

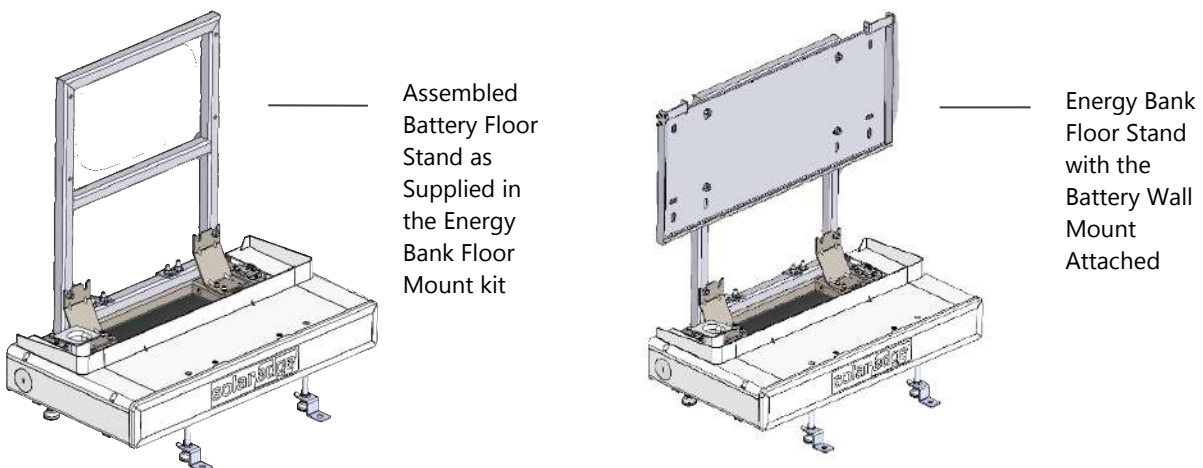


Figure 4: Assembled Floor Stand and Floor Stand with Battery Wall Mount



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

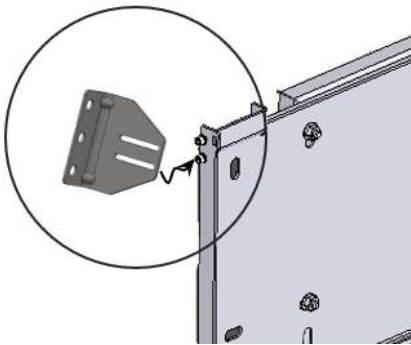
Part Number	Part Name	Part Image	Quantity
TBD	Base Mount		1
MCM-AS-00937-02	Back Holder		1
MCM-BR-00353-05	Wall Bracket		2
MCM-BR-00422-02	Side Bracket		2
MCM-MC-06694-02	Stand to Stand Connector		2
MCM-MC-05595-04	Floor Connector (for optional use)		2
MCI-NT-00109	M8 nut		10
MCI-SC-00307	Screw M5x13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



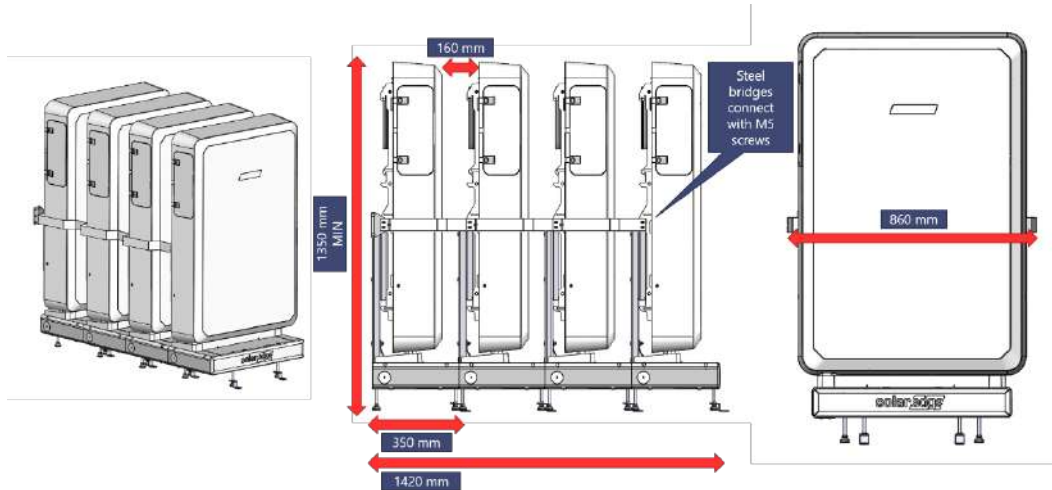
CAUTION!

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



Unpacking and mounting video



Wiring video



Battery Installation Manual



Quick Installation and Operation Guide for Europe

Emergency Response guide, including emergency phone numbers



Safety Datasheet



Battery Datasheet

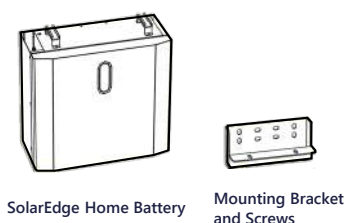


Support Contact Information

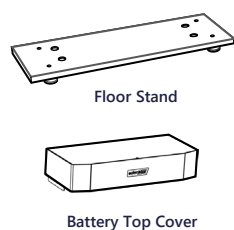
In case of any technical issues with SolarEdge products, please contact us at:
<https://www.solaredge.com/service/support>

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What's in the Package



Ordered Separately

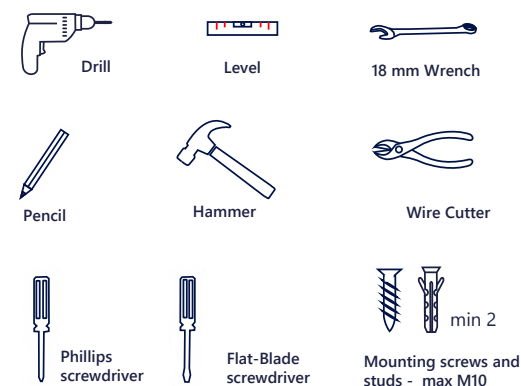


Available Cables	Available Cables		
	Battery to Battery	Tower to Tower	Battery to inverter
DC cables	57cm	260 cm	260 cm
Ground cable	55cm	170 cm	260 cm
Communication cable	57cm	170 cm	260 cm

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

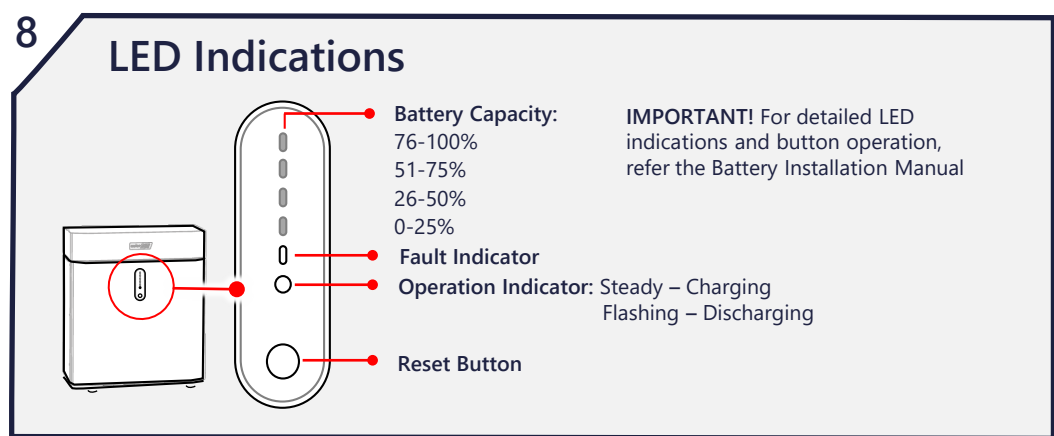
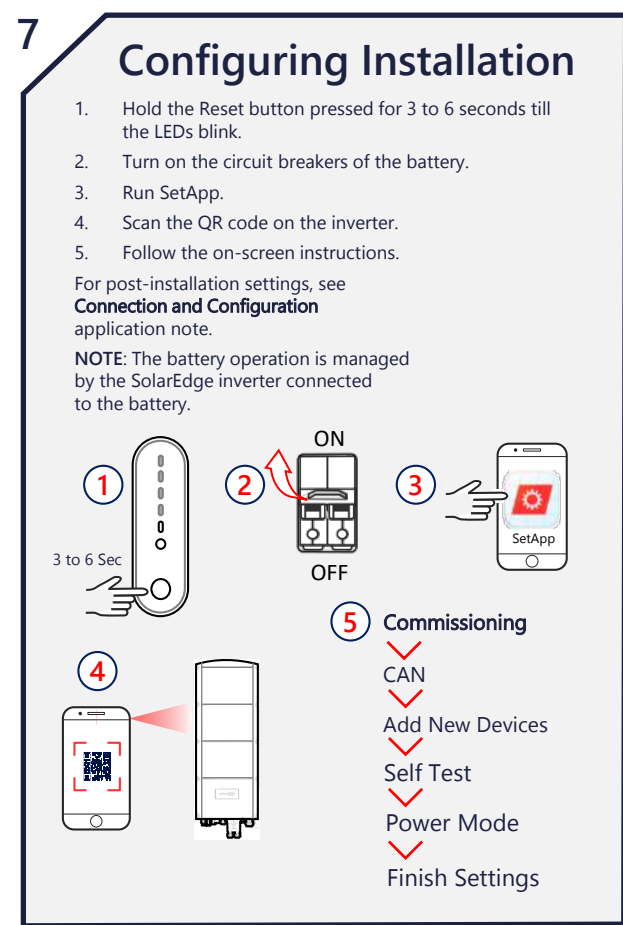
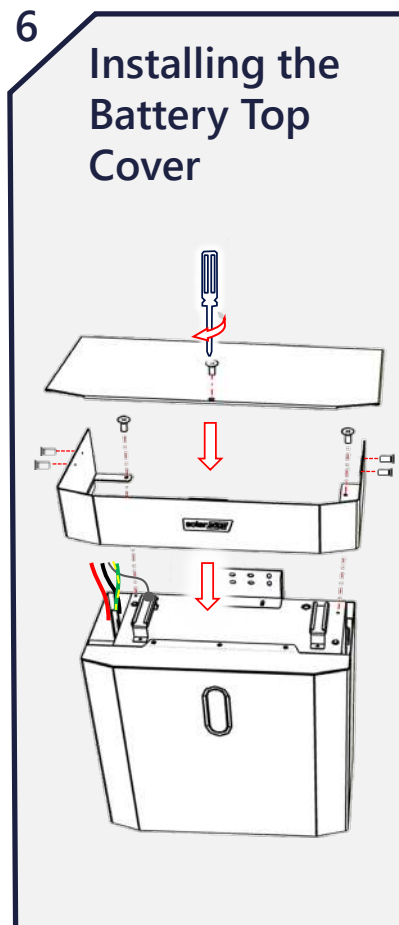
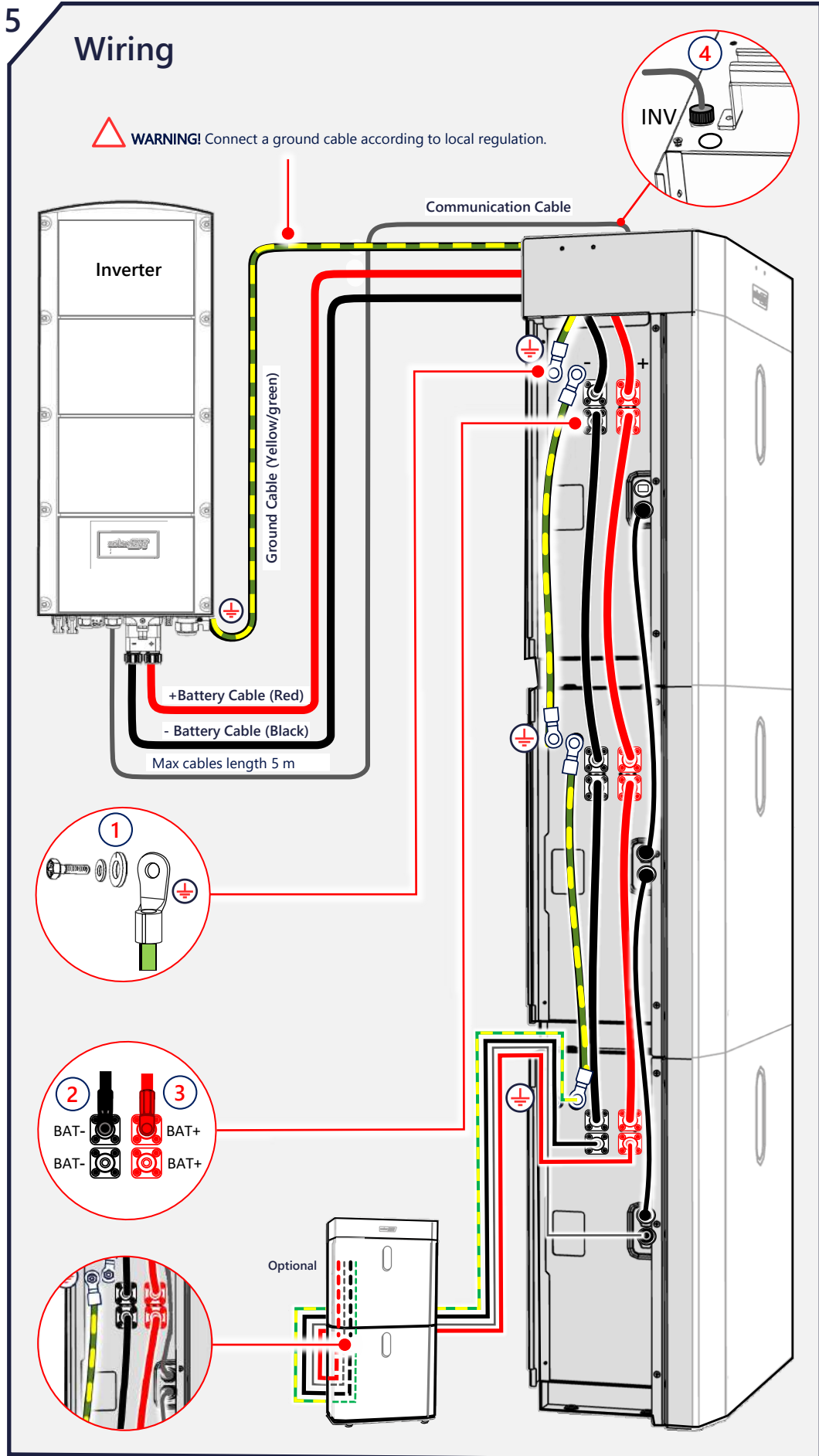
NOTE: Before installing batteries on top of each other, checked that the max tilt of the wall is 1.5%

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

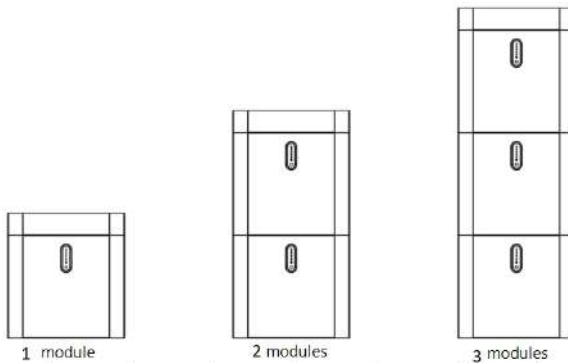
Make sure to observe the following requirements, when selecting an installation site.

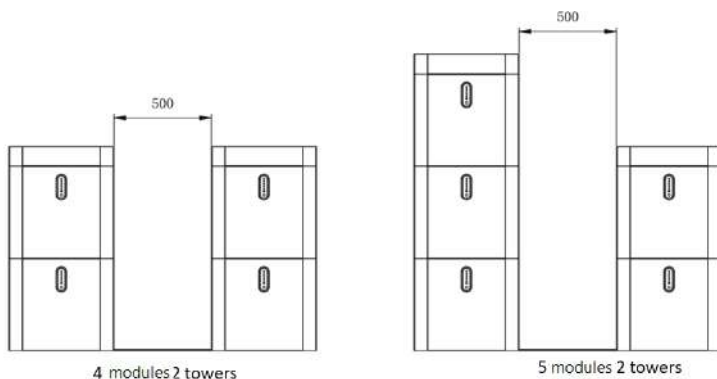
Configurations

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:

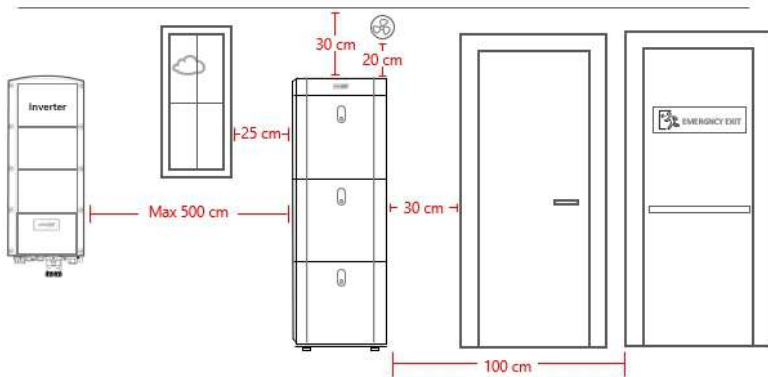
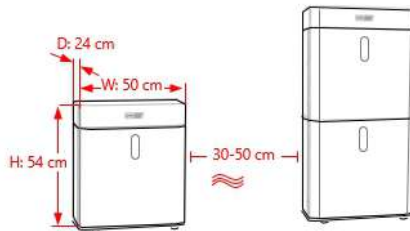
- residential rooms
- wall or ceiling niches
- entrance/exit areas or below a staircase/passage
- environments with humidity and condensed water level of over 90%
- earthquake zones where additional safety measures are required
- sites at altitudes of more than 2000 meters above the sea level

- 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

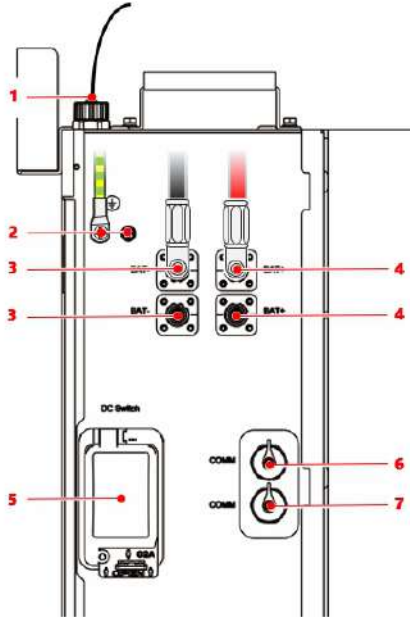
In order to prevent a fire from spreading, install a non-combustible barrier on the other side of the wall or structural surface, on which the battery is installed. If the installation surface is not made of a non-combustible material, a non-combustible barrier can be installed between the battery and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

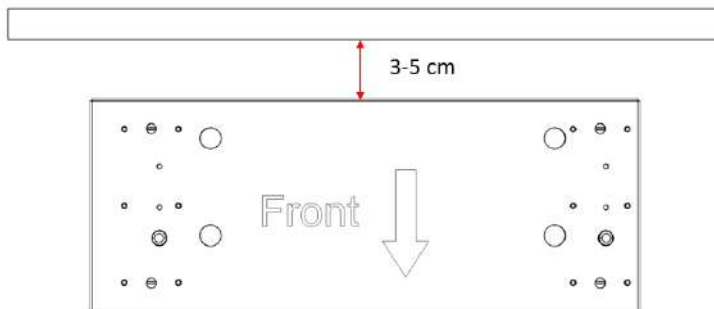
Figure below shows the single battery module with completed connections.



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

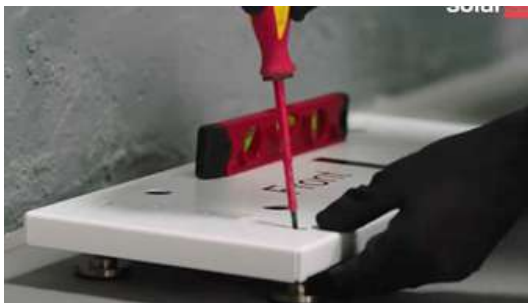
1. Install a floor stand (recommended by SolarEdge). Depending on wall leveling, consider when installing more than one module.
 - a. Place the floor stand at a distance of 3-5cm from the wall.



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.

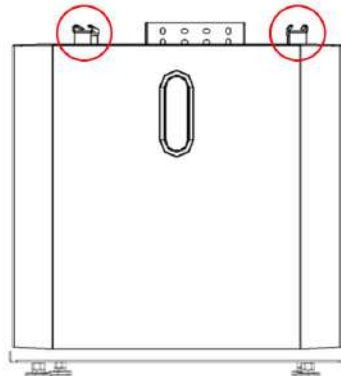


- c. When the floor stand is balanced, tighten the nut with an open wrench in order to secure the leg's height, then close the nut.

**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

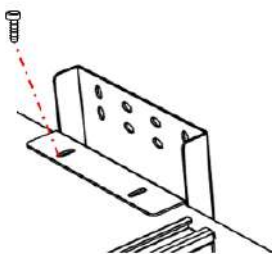
Don't drill through the bracket.

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

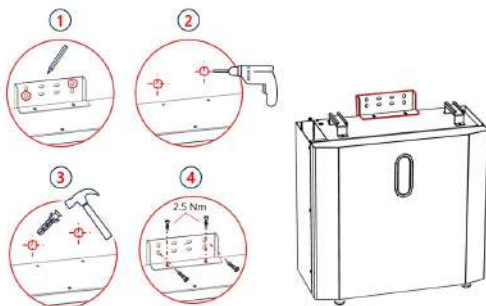
NOTE



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.

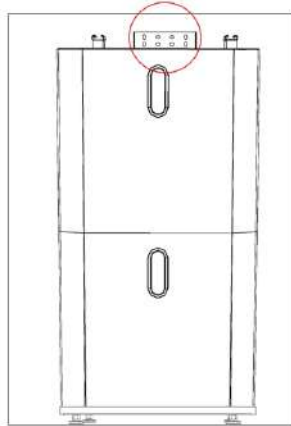


- Secure the battery module to the wall with screws and wall plugs. When using only two screws, make sure to use the two outer screws diagonally as shown on the figure below.



- 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.



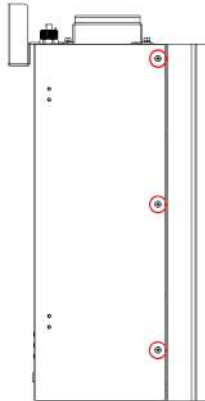
Connecting a Single Battery Module

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

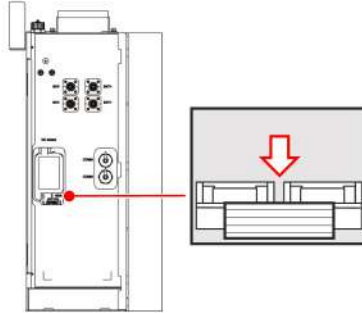
1. Make sure the battery module's DC switch is off.
2. Before connecting the cables to the inverter, make sure the accessory kit is on the correct length. If you need longer cable, you will have to crimp the connectors yourself using one of the following kits:

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

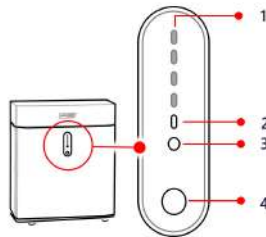
3. Release the three screws and slide the side door, that covers control interfaces on the left side of the battery module, to allow clear and secure access to the battery module interfaces.



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.

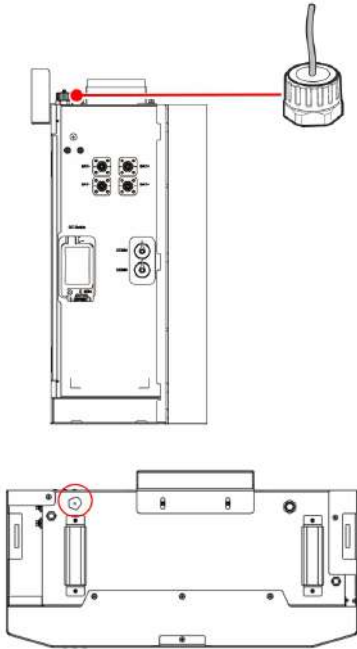


- b. Press the power button (soft switch) for 3-6 seconds until the indicator lights go out.

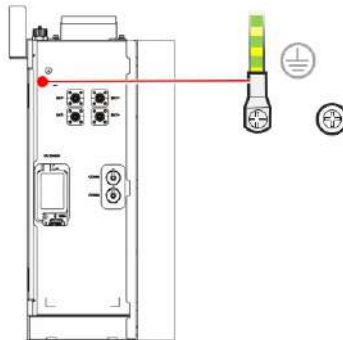


1	Battery Capacity/ Alarm ID
2	Indication LED
3	Operation Indicator
4	Power/Reset Button

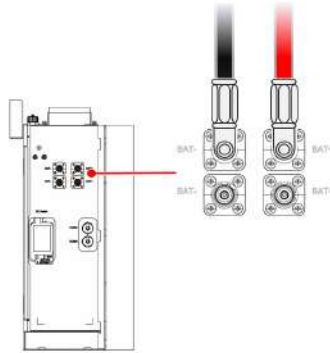
5. Connect the CAN-bus communication cable (RJ45) coming from the inverter, with the top battery module connector.



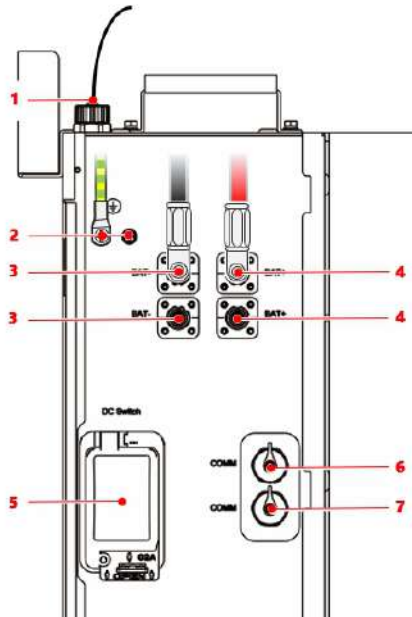
6. Use the left grounding terminal to connect the battery module, depending on the local regulation, to the inverter grounding or to the main grounding.



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.

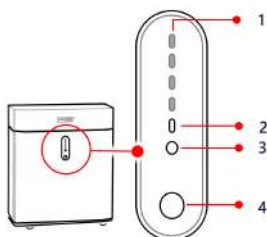


8. Figure below shows the single battery module with completed connections.



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

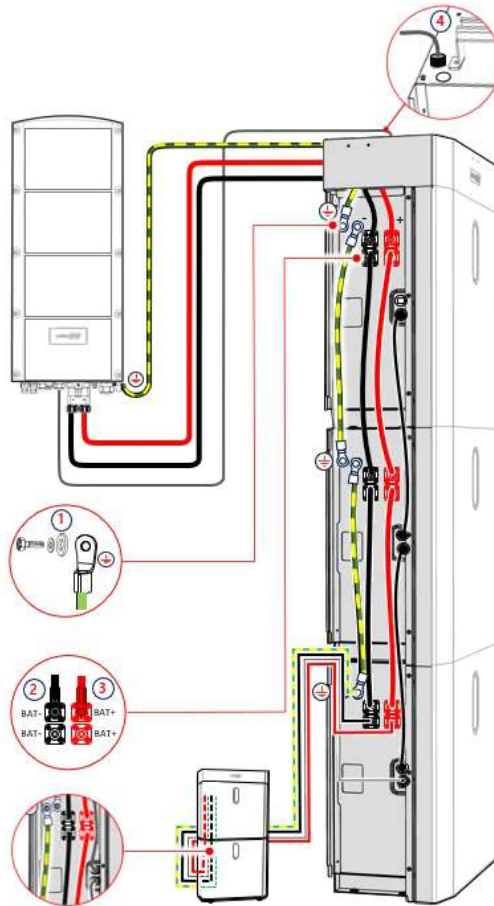


CAUTION!

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

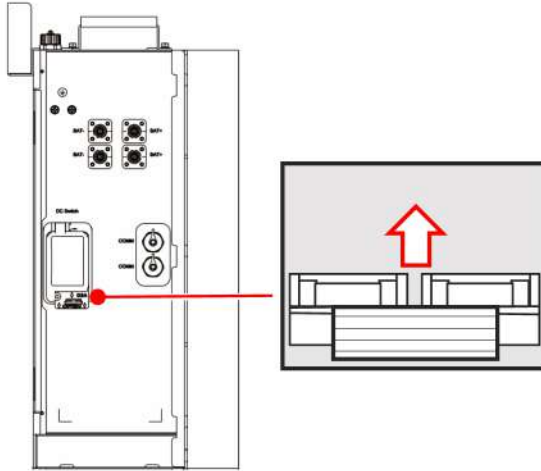


When you have two battery modules on top of each other, they are connected in a way that the top connectors of the lower battery module are connected to the bottom connectors of the upper battery module.

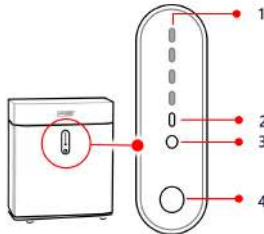
5. Fasten the side door with the three screws.

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.

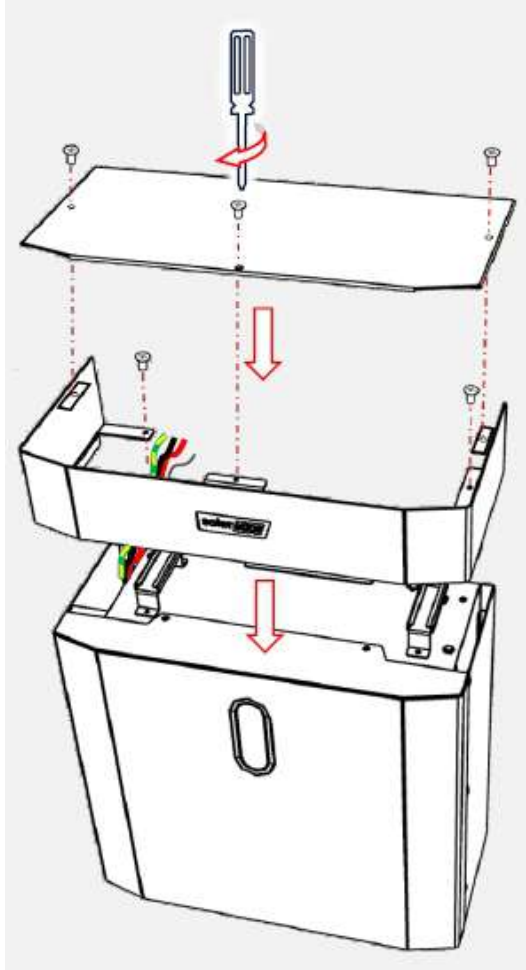


1	Battery Capacity/ Alarm ID
2	Indication LED
3	Operation Indicator
4	Power/Reset Button

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>



MAN-01-00988-1.0

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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.



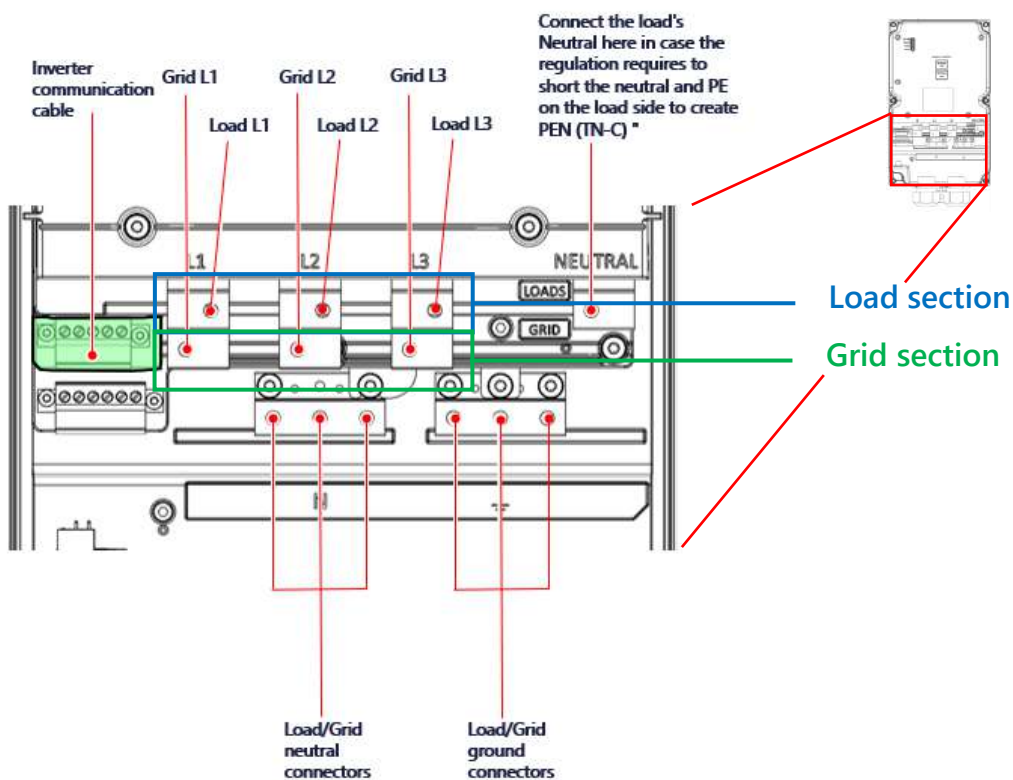
This symbol on the product denotes risk of electric shock due to stored energy. Before handling the product, wait for at least 5 seconds after disconnecting it from all sources of energy.



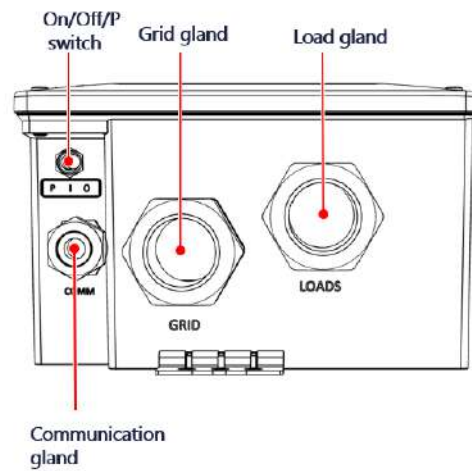
DANGER!

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.

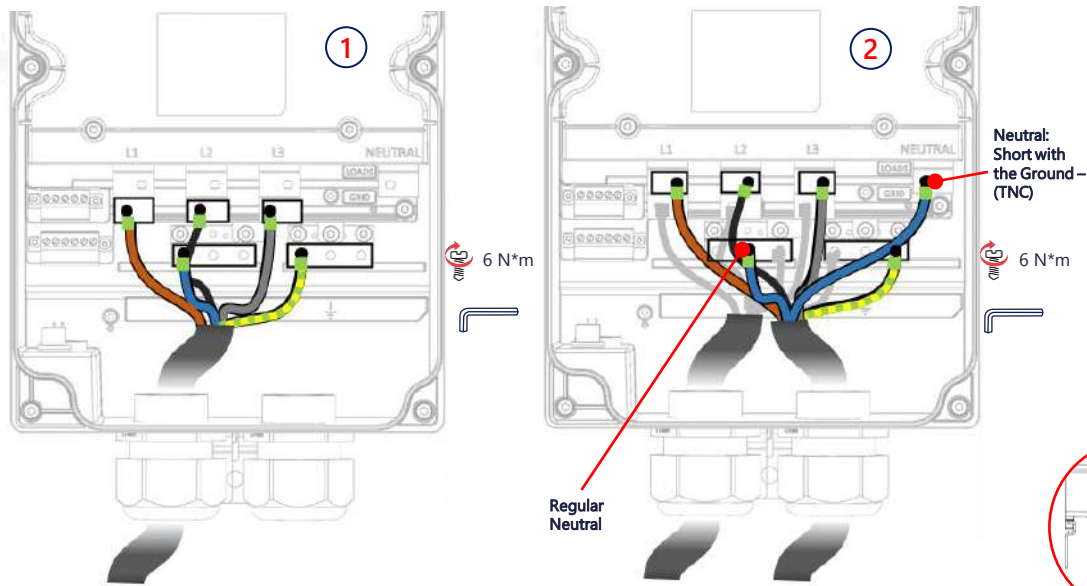
OFF

Cable

Outer diameter of 25-32mm

Cable cross section of 6²-16²mm

For the Home Hub inverter installation guide, scan



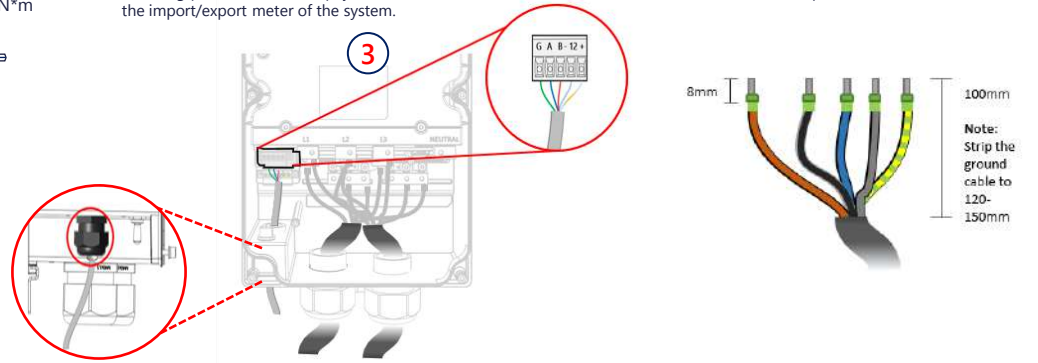
Connecting the Backup Interface



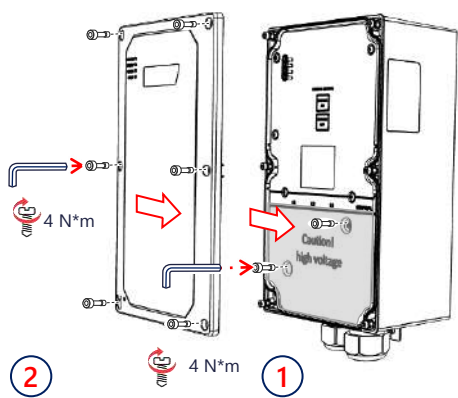
DANGER!

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).

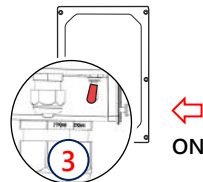
- Strip 100mm around the external **grid** cable and strip 8mm from the internal wire insulation. If needed, crimp the wire ferrules. Open the left gland marked with "Grid" and insert the grid cable. **Connect the ground wire first.** Torque – 6nm. Connect the wires Ground (yellow) ,L1 (brown) ,L2 (black), 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.



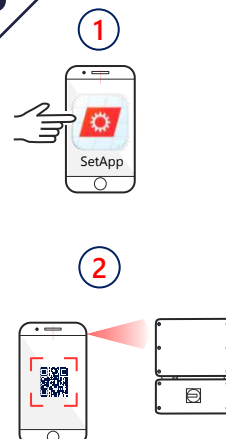
Closing the Backup Interface



- 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

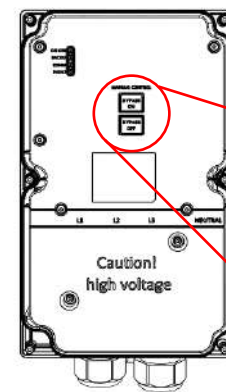
- Run SetApp.
- Scan the QR code on the inverter.
- Follow the on-screen instructions.
- Configure the import/export meter on SetApp.

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.

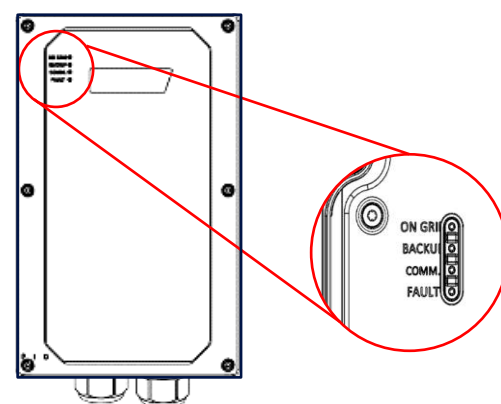
When the system is manually switched to the grid-connected mode, no backup of the loads is possible.

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		



LIMITED PRODUCT WARRANTY

This SolarEdge Technologies Ltd. limited warranty (the "Limited Warranty") covers defects in workmanship and materials of the below-listed products ("Products") for the applicable warranty period set out below ("Warranty Period"). See [Products Covered and Warranty Period](#).

The Limited Warranty only applies to the buyer who purchased the Products from an authorized seller of SolarEdge for use within the continent where SolarEdge originally sold the Products and in accordance with their intended purpose. The Limited Warranty may be transferred from the buyer to any assignee and will remain in effect for the time period remaining under the foregoing warranties, provided that the Products are not moved outside their original country of installation. Also, any reinstallation must follow the installation procedures and guidelines accompanying the Products (collectively the "Documentation").

Warranty Activation

If the buyer discovers any defect in workmanship and materials within the applicable Warranty Period and wants to activate the Limited Warranty, then the buyer must promptly after such discovery report the defect to SolarEdge by sending an email to support@solaredge.com. The email must include this information: (i) a short description of the defect, (ii) the Product's serial number, and (iii) a scanned copy of the purchase receipt or warranty certificate of the applicable Product. Note that the Product's serial number must be legible and properly attached to the Product in order to be eligible for coverage.

After receiving notification from the buyer, SolarEdge will determine whether or not the reported defect is eligible for coverage under the Limited Warranty. If SolarEdge determines that the reported defect is not eligible for coverage under the Limited Warranty, SolarEdge will notify the buyer accordingly and will explain the reason why such coverage is not available. See [Warranty Exclusions](#).

If SolarEdge determines that the reported defect is eligible for coverage under the Limited Warranty, SolarEdge will notify the buyer accordingly, and SolarEdge may, at its sole discretion, take any of the following actions:

- Repair the Product at SolarEdge's facilities or on-site.; or
- Issue a credit note for the defective Product in an amount up to its actual value at the time the buyer notifies SolarEdge of the defect, as determined by SolarEdge, for use toward the purchase of a new Product; or
- Provide the buyer with replacement units for the Product. When replacement Products are sent, SolarEdge generally sends them within 48 hours. SolarEdge may use new, used or refurbished parts that are at least functionally equivalent to the original part when making warranty repairs. The repaired Product or replacement parts or Product, as applicable, will continue to be covered under the Limited Warranty for the remainder of the then-current Warranty Period for the Product.

In any of the above, SolarEdge will determine if the Product should be returned to SolarEdge and, if SolarEdge so determines, the Return Merchandise Authorization ("RMA") Procedure will be invoked. When the RMA Procedure is invoked by SolarEdge, SolarEdge will instruct the buyer how to package and ship the Product or part(s) to the designated location. SolarEdge will bear the cost of such shipment, upon receipt of the Product or part(s), SolarEdge will, at its expense and sole discretion, either repair or replace the Product or part(s)

SolarEdge will deliver the repaired or replaced Product or part(s) to the buyer at the buyer's designated location in countries where SolarEdge has an office and/or there is a significant PV market. For the specific

list of countries to which such service is provided, see http://www.solaredge.com/articles/shipping_cost_coverage_warranty.

SolarEdge will bear the cost of such shipment, including shipping and customs (where applicable), and the buyer will bear any applicable value added tax. SolarEdge may elect to ship replacement Product(s) and/or part(s) prior to receipt of the Product and/or part(s) to be returned to SolarEdge as per the above.

All costs, including, without limitation, labor, travel, and boarding costs of SolarEdge service personnel or others that are incurred for labor relating to repairs, uninstalling, and reinstalling of Products on-site, as well as costs related to the buyer's employees and contractors repair or replacement activities, are not covered by the Limited Warranty and, unless otherwise agreed in writing in advance by SolarEdge, will be borne by the buyer.

Warranty Exclusions

The Limited Warranty does not apply to components that are separate from the Products, ancillary equipment, and consumables, such as, for example, cables, cable holders, fuses, wires, and connectors, whether supplied by SolarEdge or others. Some components may carry their own manufacturer warranty. See the product datasheet for more details.

This Limited Warranty will not apply if (a) the buyer is in default under the General Terms and Conditions of sale or any other Agreement governing the purchase of the Product, or (b) the Product or any part thereof is:

- Damaged as a result of misuse, abuse, accident, negligence or failure to maintain the Product;
- Damaged as a result of modifications, alterations or attachments thereto which were not pre-authorized in writing by SolarEdge;
- Damaged due to the failure to observe the applicable safety regulations governing the proper use of the Product;
- Installed or operated not in strict conformance with the Documentation, including without limitation, not ensuring sufficient ventilation for the Product as described in the SolarEdge Documentation;
- Opened, modified or disassembled in any way without SolarEdge's prior written consent;
- Used in combination with equipment, items or materials not permitted by the Documentation or in violation of local codes and standards;
- Damaged by software, interfacing, parts, supplies or other products not supplied by SolarEdge;
- Damaged as a result of improper site preparation or maintenance or improper installation;
- Damaged or rendered non-functional as a result of power surges, lightning, fire, flood, pest damage, accident, action of third parties, direct exposure to sea water or other events beyond SolarEdge's reasonable control or not arising from normal operating conditions; or
- Damaged during or in connection with shipping or transport to or from the buyer where the buyer arranges such shipping or transport.

Additionally, the Limited Warranty does not apply to:

- The input connector for all power optimizers with a part number ending in C.
- Any EV charger cable that is damaged due to: physical abuse and damage, commercial use, rust, water damage, domestic wear and tear, use of car inlets which are incompatible with the Smart EV Charger connector;
- Cellular Wireless Communication plans which are governed under the SolarEdge Communication Plan Terms and Conditions available on the SolarEdge website; or
- The SolarEdge Home Battery. See a dedicated warranty document for the SolarEdge Home Battery Low Voltage and the SolarEdge Home Battery High Voltage available on the SolarEdge website.

- Cosmetic or superficial defects, dents, marks or scratches, which do not influence the proper functioning of the Product.

THE LIMITED WARRANTIES SET OUT HEREIN ARE THE ONLY EXPRESS WARRANTIES MADE IN CONNECTION WITH THE PRODUCTS AND ARE IN LIEU OF ANY OTHER WARRANTIES WITH RESPECT TO THE PRODUCTS PURCHASED BY BUYER FROM SOLAREEDGE, WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL (INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), ALL OF WHICH ARE EXPRESSLY EXCLUDED TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW.

Claims by the buyer that go beyond the warranty terms set out herein, including claims for compensation or damages, are not covered by the Limited Warranty, insofar as SolarEdge is not subject to statutory liability. In such cases, please contact the company that sold you the Product. Eventual claims in accordance with the law on product liability remain unaffected.

Coverage under the Limited Warranty is subject to the buyer complying with the foregoing notification requirements and cooperating with SolarEdge's directions. SolarEdge's sole obligation and the buyer's exclusive remedy for any defect warranted hereunder is limited to those actions expressly stated above. Such actions are final and do not grant any further rights, in particular with respect to any claims for compensation.

Unless otherwise specified in an executed Agreement with SolarEdge, the Limited Warranty and related provisions set out herein are subject to SolarEdge's General Terms and Conditions, including, without limitation, the provisions thereof, which relate to disclaimer of warranties, limitation of liability and governing law and jurisdiction.

Products Covered and Warranty Period

Power Optimizers

25 years commencing on the earlier of: (i) 4 months from the date the power optimizers are shipped from SolarEdge; and (ii) the installation of the power optimizers

Module Embedded Power Optimizers (CSI and OPJ models)

25 years commencing on the earlier of: (i) 4 months from the date the power optimizers are shipped from SolarEdge; and (ii) the installation of the power optimizers, *provided, however*, that the Warranty Period shall not exceed the maximum of (1) the module product warranty and (2) the module power warranty periods provided by the applicable module manufacturer.

Inverters

12* years commencing on the earlier of: (i) 4 months from the date the products are shipped from SolarEdge; and (ii) the installation of the products.

Safety & Monitoring Interface (SMI), Auto-transformer, Backup Interface

12* years commencing on the earlier of: (i) 4 months from the date the products are shipped from SolarEdge; and (ii) the installation of the products.

* In some countries the inverter warranty is limited to 7 years. For a list of these countries, see http://www.solaredge.com/articles/warranty_exceptions

StorEdge Interface

10 years commencing on the earlier of: (i) 4 months from the date the Interfaces are shipped from SolarEdge; and (ii) the installation of the Interfaces.

ZigBee Gateway, Commercial Gateway, Firefighter Gateway, Smart Energy products, Cellular Communication Products, RS485 Plug-in, Energy Meter, Smart EV Charger (North America region only)

5 years commencing on the earlier of: (i) 4 months from the date the product is shipped from SolarEdge; and (ii) the installation of the product. Warranty duration of Cellular Communication Products is the same whether or not the product is pre-installed in the inverter.

SolarEdge EV Charger (Europe)

3 years commencing on the earlier of: (i) 6 months from the date the product is shipped from SolarEdge; and (ii) the installation of the product.

Revised: March 2022



Limited Product Warranty

SolarEdge Home Battery 48V Warranty

Subject to the terms of this **SolarEdge Home Battery 48V Limited Product Warranty** ("Limited Warranty"), SolarEdge Technologies Ltd. ("SolarEdge") shall cover defects in (i) workmanship and materials; and (ii) Energy Retention (as defined below) of the SolarEdge Home Battery **48V** ("SolarEdge Home Battery") for the Warranty Period set out below:

The SolarEdge Home Battery shall be covered by this Limited Warranty for 10 years from the earlier of (i) the SolarEdge Home Battery's installation date; or (ii) 12 months from the date the SolarEdge Home Battery is shipped from SolarEdge ("Warranty Period").

The SolarEdge Home Battery shall have a remaining usable capacity ("Energy Retention") of 70% at the earlier of (i) the end of the Warranty Period or (ii) reaching an energy throughput of 2.87MWh per each kWh usable capacity of the battery.

General Guidelines

The Limited Warranty shall apply to:

- ✓ a buyer who has purchased the SolarEdge Home Battery from SolarEdge or an authorized seller of SolarEdge for use within the continent where SolarEdge originally sold the SolarEdge Home Battery, in accordance with its intended purpose and subject to the installation and use of the SolarEdge Home Battery in compliance with applicable laws and regulations in the installation country.
- ✓ a SolarEdge Home Battery, that is connected to an approved SolarEdge Inverter and the SolarEdge Monitoring Platform for the entire duration of the Warranty Period.
- ✓ a SolarEdge Home Battery used solely for standard solar use in one of the following modes: solar self-consumption, time of use, peak shaving, backup applications or SolarEdge-managed Grid Services.
- ✓ a SolarEdge Home Battery used, installed and handled in accordance with the provisions of the SolarEdge Home Battery Documentation. In particular, SolarEdge Home Battery [Data Sheet](#)¹, SolarEdge Home Battery [Installation Manual](#)², SolarEdge Home Battery [Safety Data Sheet](#)³, and [Storage and Transportation Guide](#)⁴ available on the SolarEdge website
- ✓ the Limited Warranty may be transferred from buyer to any assignee and will remain in effect for the time period remaining under the Limited Warranty, provided that the SolarEdge Home Battery is not moved from its original installation site or de-installed and reinstalled following its original installation.
- ✓ the SolarEdge Home Battery is to be installed in a location where the ambient temperature falls between 0°C to 40°C for no less than 95% of the warranty period.
- ✓ If additional battery modules are added after the SolarEdge Home Battery is installed, the Energy Retention should be measured based on the oldest installed module, as long as it is under Warranty.

 ¹ <https://www.solaredge.com/sites/default/files/se-solaredge-home-battery-low-voltage-datasheet-eng-row.pdf>

 ² <https://www.solaredge.com/sites/default/files/se48v-5-12kwh-battery-installation-guide.pdf>

 ³ <https://www.solaredge.com/sites/default/files/se-solaredge-home-battery-low-voltage-safety-datasheet-eng.pdf>

⁴ https://www.solaredge.com/sites/default/files/se-energybank-transportation-and-storage-guidelines_0.pdf



- ✓ Additional battery modules whose Warranty period has expired, should be disconnected during measuring Energy Retention values, and measuring should be performed on the remaining modules that are within the Warranty period.

Warranty Exclusions

This Limited Warranty does not apply if (i) buyer is in default under the SolarEdge General Terms and Conditions or other agreement governing the purchase of the SolarEdge Home Battery; or (ii) any defect or Energy Retention underperformance is the result of any of the following:

- misuse, abuse, negligence;
- failure to maintain, operate, store, ship, install or handle the SolarEdge Home Battery in strict conformance with the Documentation, including without limitation, failure to maintain the SolarEdge Home Battery under proper environmental conditions or in any manner which is contrary to the Documentation;
- modifications, alterations, repair, attachments, opening or disassembling the SolarEdge Home Battery, which were not pre-authorized in writing by SolarEdge;
- removal and reinstallation of the SolarEdge Home Battery at a location other than the original installation site, without the express written consent of SolarEdge;
- use of the SolarEdge Home Battery in combination with equipment, items or materials not permitted by the Documentation or in violation of local codes and standards;
- connecting the SolarEdge Home Battery to software, interfacing, parts, supplies or other products not supplied by SolarEdge;
- improper site preparation or maintenance or improper installation;
- accidents or other force majeure events such as (but not limited to) flood, earthquake, fire, power surges, lightning, pest damage, corrosion, actions of third parties, direct exposure to water or other substances or other events beyond SolarEdge's reasonable control or not arising from normal operating conditions;
- shipping or transport to or from buyer where buyer arranges such shipping or transport;

This Limited Warranty does not cover cosmetic or superficial defects, dents, marks or scratches, which do not influence the proper functioning of the SolarEdge Home Battery.

Failure to Connect the SolarEdge Home Battery to the SolarEdge Monitoring Portal

in order to provide this Limited Warranty for the Warranty Period, SolarEdge requires the ability to update the SolarEdge Home Battery through remote firmware upgrades. Buyer acknowledges that remote upgrades may temporarily interrupt the operation of the SolarEdge Home Battery. By installing the SolarEdge Home Battery and connecting it to the SolarEdge Monitoring Portal, buyer consents to SolarEdge updating the SolarEdge Home Battery from time to time, without prior notice. If the SolarEdge Home Battery is not connected to SolarEdge Monitoring Portal, SolarEdge will not be able to honor this Limited Warranty.

Remedies

If, during the applicable Warranty Period, buyer discovers any defect in workmanship and materials or suspects that the SolarEdge Home Battery fails to comply with the Energy Retention warranty and buyer therefore seeks to activate the Limited Warranty, then buyer shall, promptly after such discovery, report the defect to SolarEdge by sending an email to support@solaredge.com with the following information: (i) a short description of the defect, (ii) the SolarEdge Home Battery's serial number, and (iii) a scanned copy of the purchase receipt or warranty certificate of the SolarEdge Home Battery. Upon buyer's notification, SolarEdge shall determine whether the reported defect is eligible for coverage under the Limited Warranty. The SolarEdge Home Battery's serial number must



be legible and properly attached to the SolarEdge Home Battery in order to be eligible for Warranty coverage. If SolarEdge determines that the reported defect is not eligible for coverage under the Limited Warranty, SolarEdge will notify buyer accordingly and will explain the reason why such coverage is not available.

If SolarEdge determines that the reported defect is eligible for coverage under the Limited Warranty, SolarEdge will notify buyer accordingly, and SolarEdge may, in its sole discretion, take any of the following actions: repair the product at SolarEdge's facilities or on-site; or issue a credit note in an amount up to the actual pro-rated value of the SolarEdge Home Battery at the time buyer notifies SolarEdge of the defect, as determined by SolarEdge, for use toward the purchase of SolarEdge products in accordance with the following formula: $\text{Credit} = \text{Current market price of similar product} \times (120 - \text{Time elapsed from the warranty effective date [in months]}) / 120$; or replace the SolarEdge Home Battery with an equivalent product at the time of the warranty claim. SolarEdge will determine whether the product should be returned to SolarEdge and, if SolarEdge so determined, the Return Merchandise Authorization ("RMA") Procedure (set out below) will be invoked. SolarEdge may use new, used or refurbished parts that are at least functionally equivalent to the original part when making warranty repairs. The repaired product or replacement parts or SolarEdge Home Battery, as applicable, shall continue to be covered under the Limited Warranty for the remainder of the then-current Warranty Period for the Product. Where the RMA Procedure is invoked by SolarEdge, SolarEdge will instruct buyer how to package and ship the SolarEdge Home Battery or part(s) at Buyer's expense to the designated location. SolarEdge will, at its expense and sole discretion, either repair or replace the SolarEdge Home Battery or part(s). SolarEdge will deliver the repaired or replaced SolarEdge

Home Battery or part(s) to buyer at buyer's designated location in countries where SolarEdge has an office and/or there is a significant PV market. For the specific list of countries to which such service is provided, please access http://www.solaredge.com/shipping_cost_coverage_warranty.

SolarEdge will bear the cost of such shipment, including shipping and customs (where applicable) and buyer shall bear any applicable value added tax. SolarEdge may elect to ship replacement SolarEdge Home Battery and/or part(s) prior to receipt of the SolarEdge Home Battery and/or part(s) to be returned to SolarEdge as per the above. All costs, including, without limitation, labor, travel and boarding costs of SolarEdge service personnel or others that are incurred for labor relating to repairs, uninstalling and reinstalling of SolarEdge Home Battery on-site, as well as costs related to buyer's employees and contractors repair or replacement activities, are not covered by the Limited Warranty and, unless otherwise agreed in writing in advance by SolarEdge, shall be borne by the buyer.

Limitation of Liability

THE LIMITED WARRANTIES SET OUT HEREIN ARE IN LIEU OF ANY OTHER WARRANTIES WITH RESPECT TO THE PRODUCTS PURCHASED BY BUYER FROM SOLAREEDGE, WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL (INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), ALL OF WHICH ARE EXPRESSLY EXCLUDED TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW.

SOLAREEDGE SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES ARISING OUT OF OR RELATED TO THIS LIMITED WARRANTY, REGARDLESS OF THE FORM OF ACTION AND REGARDLESS OF WHETHER SOLAREEDGE HAS BEEN INFORMED OF, OR OTHERWISE MIGHT HAVE



ANTICIPATED, THE POSSIBILITY OF SUCH DAMAGES. SOLAREGE'S LIABILITY ARISING OUT OF A CLAIM UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE AMOUNT PAID FOR THE SOLAREGE HOME BATTERY UNDERLYING BUYER'S WARRANTY CLAIM.

Limitation on Use

The SolarEdge Home Battery is not intended for use as a primary or backup power source for life- support systems, medical equipment, or any other use where the SolarEdge Home Battery's failure could lead to injury to persons or loss of life or catastrophic property damage. SolarEdge disclaims any and all liability arising out of any such use of the SolarEdge Home Battery. Additionally, SolarEdge reserves the right to refuse to service products used for these purposes and disclaims any and all liability arising out of SolarEdge's service or refusal to service the Products in such circumstances.

Claims by buyer that go beyond the warranty terms set out herein, including claims for compensation or damages, are not covered by the Limited Warranty, insofar as SolarEdge is not subject to statutory liability. Eventual claims in accordance with the law on product liability remain unaffected.

Coverage under the Limited Warranty is subject to buyer complying with the foregoing notification requirements and cooperating with SolarEdge's directions. SolarEdge's sole obligation and buyer's exclusive remedy for any defect warranted hereunder is limited to those actions expressly stated above. Such actions are final and do not grant any further rights, in particular with respect to any claims for compensation.

Unless otherwise specified in an executed Agreement with SolarEdge, the Limited Warranty and related provisions set out herein are subject to SolarEdge's General Terms and Conditions, including, without limitation, the provisions thereof, which relate to disclaimer of warranties, limitation of liability and governing law and jurisdiction.

September 2022

Declaration of Conformity – CE

This is to declare that the products listed below including their required accessories have been manufactured according to the following EU directives:

- Radio Equipment Directive 2014/53/EU (RED)**
 The radio equipment directive 2014/53/EU (RED) establishes a regulatory framework for placing radio equipment on the market.
- 2011/65/EU RoHS Directive**
 Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment
- DIRECTIVE (EU) 2015/863:**
 Amending Annex II to EU RoHS 2 (Directive 2011/65/EU)

Manufacturer:	SolarEdge Technologies Ltd.
Address:	1 HaMada St. Herzeliya 4673335, Israel
Tel:	+972-9-957-6620
Fax:	+972-9-957-6591
Product:	Solar Inverter
Type reference:	SE3K*, SE3K-RWB*, SE4K*, SE4K-RWB*, SE5K*, SE5K-RWB*, SE5K-RWS*, SE5K-RWB48*, SE6K*, SE7K*, SE7K-RWS*, SE7K-RWB48*, SE8K*, SE8K-RWS*, SE8K-RWB48*, SE9K*, SE10K*, SE10K-RWS*, SE10K-RWB48*, SE12.5K**, SE15K**, SE16K**, SE17K**, SE20K**, SE25K**, SE27.6K**, SE30K**, SE33.3K**, SE40K**, SE50K**, SE55K**, SE66.6K**, SE75K**, SE82.8K**, SE90K** SE100K**, SE120K**

Health and Safety (RED, Article 3.1.a):

EN 62109-1:2010
 EN 62109-2:2011
 EN 62311:2008

Electromagnetic Compatibility (RED, Article 3.1.b):

EN 55011:2016/A11:2020
 EN 61000-6-2:2005
 EN 61000-6-3:2007 +A1:2011
 EN-61000-3-2:2014 (*)
 EN-61000-3-3:2013 (*)
 EN-61000-3-11:2000 (**)
 EN-61000-3-12:2011 (**)

RED Article 3.2:

EN 301 489-1 V2.1.1
 EN 301 489-17 V3.1.1
 EN 300 328 V2.1.1

The following standards have been applied according to the RoHS directive 2011/65/EU:

EN IEC 63000:2018

Herzeliya, Israel

September 18th, 2022

PLACE

Date

(Aviad Yeshaya,  Director of Compliance)

* Maximum AC current \leq 16A

** Maximum AC current $>$ 16A



Product Service

Attestation of Conformity

No. E8A 082496 0027 Rev. 00

Holder of Certificate: **SolarEdge Technologies Ltd.**

1 Hamada Street
4673335 Herzeliya
ISRAEL

Name of Object: **Battery Packs**
(Rechargeable Li-ion Battery System)

This Attestation of Conformity is issued on a voluntary basis according to the Directive 2014/30/EU relating to electromagnetic compatibility. It confirms that the listed apparatus complies with all essential requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for testing and certification. For details see: www.tuvsud.com/ps-cert

Test report no.: 6877221004401A

Date, 2022-04-21

(Laurent Yuan)

Page 1 of 2

After preparation of the necessary technical documentation as well as the EU Declaration of conformity the required CE marking can be affixed on the product. That Declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



Product Service

Attestation of Conformity

No. E8A 082496 0027 Rev. 00

Model(s): **BAT-05K48**

Description of Object:

Ratings : See below table for details.

Protection Class : I

Product name	Rechargeable Li-ion Battery System
Model name	BAT-05K48
Nominal voltage	51.2Vd.c.
Rated capacity	100Ah
Recommended charging voltage by manufacturer	56.5V
Upper limit charging voltage	56.5V
Charging current declared by manufacturer	50A
Maximum Continuous Charging Current	50A
Discharging current declared by manufacturer	80A
Maximum Continuous Discharging Current	80A
Standard charging method by manufacturer	Charge at constant current 50A
Weight	54Kg
Battery type	LFP(LifePO4)
Voltage range	44.8-56.5Vdc
Rated voltage	51.2Vdc
Energy capacity	5.12kWh
Usable capacity	4.6kWh
Maximum charge power	2.825kW
Maximum discharge power	4.096kW
Protective class	Class I

Tested according to:

EN IEC 61000-6-1:2019
 EN IEC 61000-6-3:2021
 EN IEC 61000-6-2:2019
 EN IEC 61000-6-4:2019
 EN IEC 61000-3-11:2019
 EN 61000-3-12:2011

Page 2 of 2

After preparation of the necessary technical documentation as well as the EU Declaration of conformity the required CE marking can be affixed on the product. That Declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



Product Service

CERTIFICATE

No. B 082496 0026 Rev. 00

Holder of Certificate: **SolarEdge Technologies Ltd.**

1 Hamada Street
4673335 Herzeliya
ISRAEL

Certification Mark:



Product:

**Batteries
(Rechargeable Li-ion Battery System)**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290223026401

Valid until: 2027-03-17

Date, 2022-05-20

(Billy Qiu)

CERTIFICATE

No. B 082496 0026 Rev. 00

Model(s): **BAT-05K48**

Parameters:

Model	BAT-05K48
Battery type	LFP (LiFePO4)
Voltage range	44.8~56.5 Vd.c.
Rated voltage	51.2Vd.c.
Energy capacity	5.12kWh
Usable capacity	4.6kWh
Maximum charge/discharge current	50Ad.c./80Ad.c.
Maximum charge power	2.825kW
Maximum discharge power	4.096k W
Operating temperature range	-10~+50°C(Charging), -10~+50°C(Discharging)
Protective class	Class I
Ingress protection	IP65
Altitude	≤ 2000m

Tested according to: IEC 62040-1:2017
IEC 62619:2017
IEC 63056:2020

LITHIUM CELLS OR BATTERIES TEST SUMMARY IN ACCORDANCE WITH SUB-SECTION 38.3 OF MANUAL OF TESTS AND CRITERIA 锂电芯或锂电池UN38.3试验概要

Report No. 报告编号: KS2112S4569B01

Applicant 委托方:

Applicant Name 委托方名称:	SolarEdge Technologies Ltd
Applicant Address 委托方地址:	1 Hamada Street 4673335 Herzeliya ISREAL

Manufacturer 制造商:

Manufacturer Name 制造商名称:	CATL KSTAR SCIENCE&TECHNOLOGY CO., LTD 宁德时代科士达科技有限公司				
Manufacturer Address 制造商地址:	NO.8 Songshan Road, Xiapu Economic Development Zone, 518107 Ningde City, Fujian Province, PEOPLE'S REPUBLIC OF CHINA 福建省宁德市霞浦经济开发区松山路8号				
Tel. 电话	+86-18928484760	E-mail 邮箱	leigx@catlstar.com	Web 网址	www.catlstar.com

Sample Description 样品描述:

Sample Name 产品名称	Rechargeable Li-ion Battery 可充电锂离子电池	Model Name 型号名称	BAT-05K48		
Rated Capacity 额定容量	100Ah	Rated Voltage 额定电压	51.2V	Watt-hour 瓦时	5.12kWh
Sample Shape 样品形状	Prismatic 棱柱形	Product Description 产品描述	Lithium ion Batteries 锂离子电池组		
Sample Mass 样品重量	54.6kg	Sample Size 样品尺寸	(240.0*540.0*530.0) mm (T*W*L)		

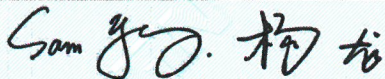
Test Standard 检测标准:

UNITED NATION "Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Test and Criteria" ST/SG/AC.10/11/Rev.7, Section 38.3
联合国《关于危险品货物运输的建议书试验和标准手册》第七修订版, 第 38.3 节

Test Item and Conclusion 测试项目和结论:

Test Item 测试项目	Conclusion 结论	Test Item 测试项目	Conclusion 结论
T.1: <input checked="" type="checkbox"/> Altitude simulation / 高度模拟	Pass 合格	T.5: <input checked="" type="checkbox"/> External short circuit / 外接短路	Pass 合格
T.2: <input checked="" type="checkbox"/> Thermal test / 温度测试	Pass 合格	T.6: <input checked="" type="checkbox"/> Crush / 挤压 or <input type="checkbox"/> Impact / 撞击	Pass 合格
T.3: <input checked="" type="checkbox"/> Vibration / 振动	Pass 合格	T.7: <input checked="" type="checkbox"/> Overcharge / 过充电	Pass 合格
T.4: <input checked="" type="checkbox"/> Shock / 冲击	Pass 合格	T.8: <input checked="" type="checkbox"/> Forced discharge / 强制放电	Pass 合格
38.3.3 (f)	N/A 不适用	38.3.3 (g)	N/A 不适用

Approval & Signature 批准及签章:

Approved By 批准人	Sam Yang / 杨 龙	Position 职务	Technical Director 技术负责人
Signature 签章		Date of issue 签发日期	January 11, 2022 2022年01月11日

Testing Laboratory 测试实验室:



KSIGN(Guangdong) Testing Co., Ltd. 广东科正技术服务有限公司
West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou,
Shajing, Bao'an District, Shenzhen, Guangdong, China
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