

SolarEdge Home Battery 48V (W)

Used with SolarEdge Home Hub three-phase inverters

Quick Installation Guide

for Europe

Emergency Response
guide



Safety
Datasheet



Battery
Datasheet



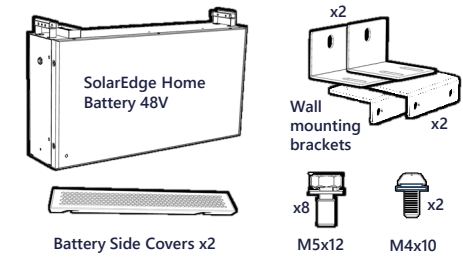
Transportation
Guide



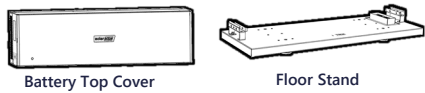
Support Contact Information
In case of any technical issues with SolarEdge products, please contact us at:
<https://www.solaredge.com/service/support>

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What's in the Package



Ordered Separately



	Width	Height	Depth
Battery module	725 mm	370 mm	245 mm
Battery top cover	725 mm	210 mm	245 mm
Floor stand	725 mm	50 mm	245 mm

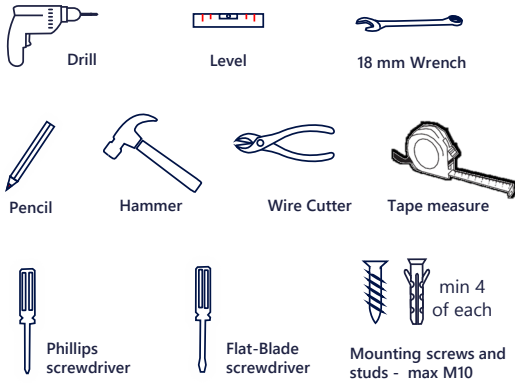
Available Cables

	Battery to inverter
DC cables	260 cm
Ground cable	260 cm
Communication cable	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.
- **IMPORTANT NOTE!**
Before installing or operating the SolarEdge Home Battery, read the Safety and Handling instructions at the back of this page.
- T** = a torque value in Nm

1

Installation procedure

1 POWER OFF:

- Inverter P/1/0 switch (set to "0")
- AC to Inverter
- Battery Top Cover circuit breaker
- Battery side switch (push-button)

2 INSTALL:

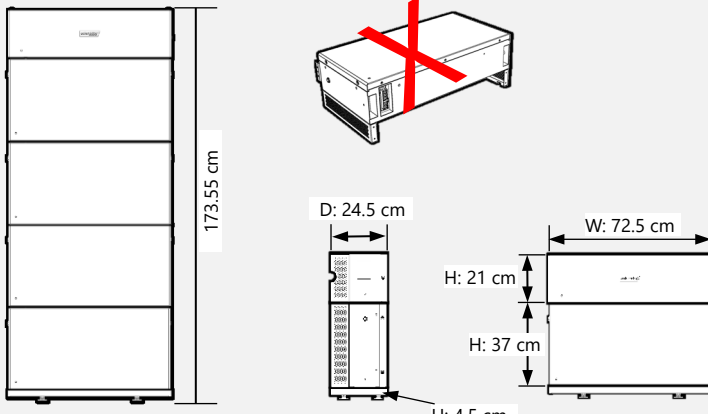
- Floor Stand
- Battery modules
- Top cover
- DC and comms wiring from Top Cover to Inverter

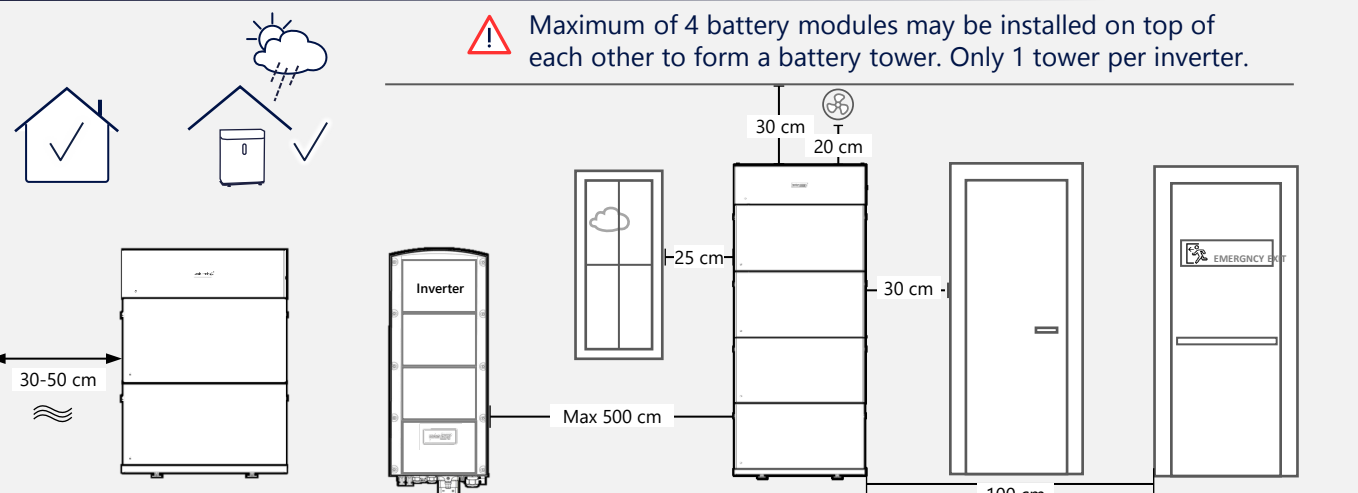
3 POWER ON:

- Battery side switch (push-button)
- Battery Top Cover circuit breaker
- AC to Inverter
- Inverter P/1/0 switch (set to "1")

2

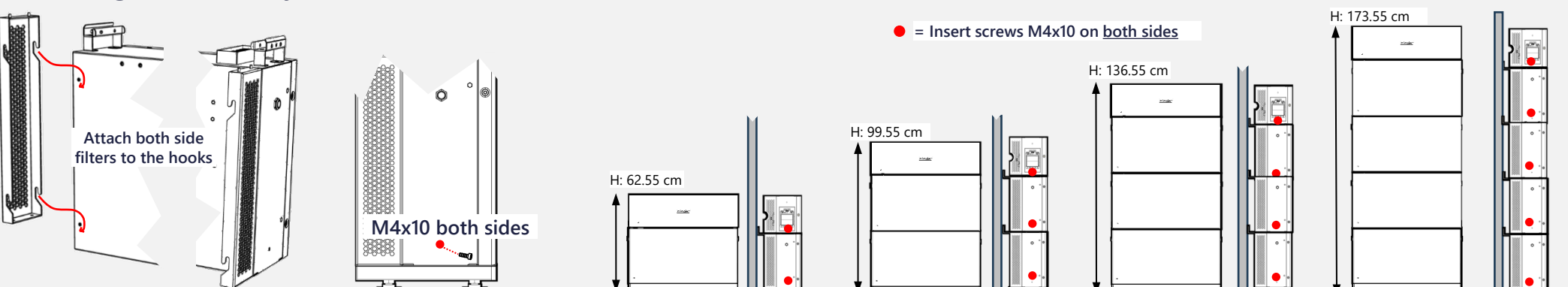
Planning and Considerations





3

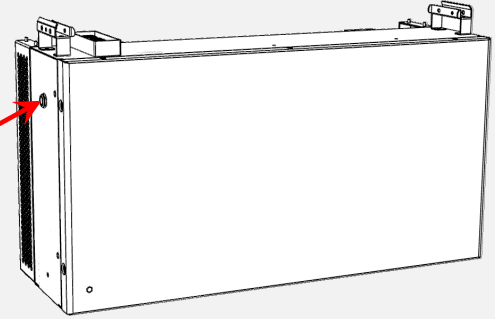
Building the battery



● = Insert screws M4x10 on both sides

4

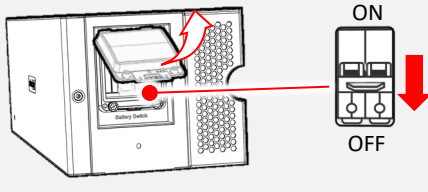
Ensure each battery is OFF



Press and hold for 1 – 3 seconds until LED is OFF

5

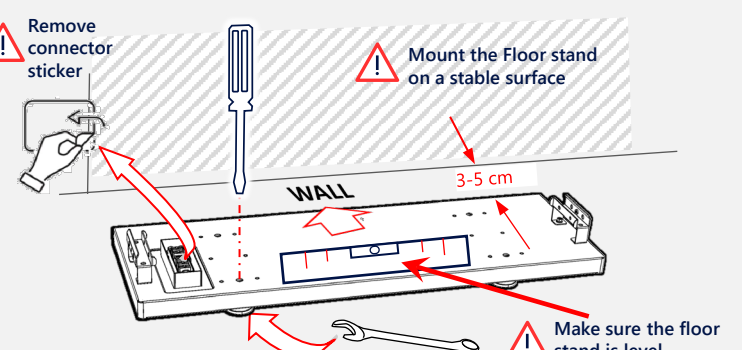
Ensure the Top Cover circuit breaker is OFF



ON
OFF

6

Position and level the Floor stand



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7 Installing the Battery Modules

1

Install Battery brackets to battery -
M5x12 $\tau = 2\text{ Nm}$

2

Install wall brackets to the Battery brackets -
M5x12 – **DO NOT TIGHTEN YET!**

3

Remove **bottom** battery connector sticker and fit battery to the floor stand.

4

Mark position for drill holes

5

Loosen the screws to remove the wall brackets

6

Drill holes and insert wall plugs

7

Reattach the wall brackets as in step 2

8

Fix the first Battery module to the wall and remove the top connector sticker

9

Fit x1 M4x10 screw to each side of the battery module. Tighten to $\tau = 2\text{ Nm}$.

10

Remove the **bottom** battery connector sticker from the next battery module

11

Repeat these steps for each additional battery module up till a maximum of 4 modules mounted on top of one another.

8 Wiring

Inverter

Ground Cable (Yellow/green)

+ Battery Cable (Red)

- Battery Cable (Black)

Inverter Communication Cable

Top Cover

Max cable length = 5 m

TOP

Cable entry options

Before wiring, make sure the inverter is turned OFF, and each battery module and the Top Cover are OFF!

The Top Cover MUST be wired BEFORE installing it on top of the Battery Modules!

Use only SolarEdge approved cables and accessory kits!

Connect a ground cable according to local regulations.

9 Attach the Top Cover

M4x10 both sides to $\tau = 2\text{ Nm}$

10 Configuring Installation

NOTE: The battery operation is managed by the SolarEdge inverter connected to the battery.

1

3s ON

2

ON

3

Inverter:
- AC ON
- P/I/O switch to "1" (ON)

4

5

6

Commissioning
Follow the on-screen instructions

11 Battery module LED indications

Battery status	LED color	LED indicator status	
OFF	OFF	OFF	
Normal	Green	ON	
		LED blink status	
		ON (s)	OFF (s)
Alarm	Red	0.75	0.75
Protection	Red	0.25	0.25
Fault	Red	ON	

*For detailed LED indications and button operation, refer to the Battery Installation Manual

SAFETY AND HANDLING INSTRUCTIONS

Read this entire document before installing or operating the SolarEdge Home Battery 48V (W) (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.

Handling Cautions

- 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 48V (W) – Emergency Response Guide*.

- 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 48V (W) – 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.

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