

# SolarEdge Home Battery FAQs

## **Q1: When will the SolarEdge Home Battery be available?**

A: The battery can be ordered immediately from your local SolarEdge distributor. We invite you to discuss the price with the distributor and plan possible future delivery for your projects.

## **Q2: For new installations, is the DC combiner always required?**

A: No, when either one or two SolarEdge Home Batteries are being installed, the DC Combiner is purely optional. When LG Batteries or three of the SolarEdge Home Batteries are being installed then the DC Combiner will become necessary.

## **Q3: What are our battery options for three phase systems?**

A: The SolarEdge SExK-AUB three phase residential inverters are planned to have the SolarEdge Home Battery installed as part of the system later on in 2022 as the input voltage is the same as the single phase inverters. However, further integration is still required.

## **Q4: Will it be possible to use the new SolarEdge Home Battery for backup operation?**

A: Yes, when the Home Battery has been installed with an Energy Hub inverter and the Backup Interface has also been installed and configured then backup is available to power your whole home if the grid fails - assuming you have sufficient battery and inverter capacity available.

## **Q5: Isn't the battery heavy? What if there is not always the possibility of having a manual lift.**

A: SolarEdge Home Battery is a 121kg monolithic battery which cannot therefore be broken down into its construction elements. The installation methods as detailed within the installers training explains the safe handling of the battery, and that installation will require means of mechanically lifting it to the final mounting position.

## **Q6: Are the old inverters with displays not compatible with this battery even using the StorEdge Interface?**

A: Correct, SolarEdge Home Battery is compatible only with inverters activated via SetApp (without display).

**Q7: Can the battery inverter system manage zero-watt grid feed? So it only supports maximized self-consumption function?**

A: Yes, the storage management can also be set in conjunction with the zero-export program function in order to be able to use the energy solely for the user's own self-consumption. The setting is present in the energy control menu in SetApp.

**Q8: How many battery life cycles are there?**

A: SolarEdge provides 10-year warranty for the battery that secures at least 70% of its energy capacity over that period, when operated according to its operational manual and warranty terms.

**Q9: With the 3kW Energy Hub inverter, can the battery ever be charged to 100%?**

A: It is not the size of the inverter but the following two factors that determine the possibility of charging the battery to maximum capacity:

- The size of the PV system, which determines the amount of generation energy available
- The user's consumption profile that determines how much excess PV production is available to charge the battery

**Q10: Is there an anti-blackout function?**

A: Yes, when the Home Battery has been installed with an Energy Hub inverter and the Backup Interface has also been installed then backup is available to power your whole home if the grid fails.

**Q11: Will it be possible to implement the SolarEdge Home Network on existing inverters?**

A: Yes, as long as the inverters are activated with SetApp. The new SolarEdge Home Network is therefore only compatible for inverters without an LCD display.

**Q12: Which current SetApp-based inverters are compatible with the Home Battery?**

A: The SolarEdge Home Battery is compatible with the current single phase Genesis, Energy Hub and HD-Wave inverters (all supporting SetApp). However, backup capability is only possible with Energy Hub + Backup Interface.

**Q13: Can a customer who has the old inverter with a display connect the battery with a kit?**

A: There is no solution for upgrading inverters with a display to SetApp.

**Q14: Can it also be combined with AC-coupled SetApp HD-Wave inverters?**

A: No, the SolarEdge Home Battery cannot be configured with in an AC-coupled configuration.

**Q15: Is it possible to buy the battery individually?**

A: Yes, please contact your SolarEdge distributor in order to define the order procedures.

**Q16: I have a three phase SolarEdge system with low voltage LG storage. Is it possible to add an Home Battery retrofit system on this type of system?**

A: Yes, it is possible to add a single phase inverter, connected with 1-3 SolarEdge Home Battery batteries but the inverter will require at least the minimal kWp of PV connected to it.

**Q17: I understood that the battery can be recharged while the inverter manages the grid feed to maximize production from the panels even by oversizing the system. Especially in the summer, is there a battery recharge mode, especially in the middle of the day?**

A: It is possible to customize the storage profiles via specific functions in the Monitoring Platform. However, if there is excess PV production in the morning, this energy will be stored in the SolarEdge Home Battery, instead of being fed into the grid.

**Q18: If one has existing PV and EV, is it possible to insert an Home Battery as a storage solution? Can the entire system then be programmed to operate with the desired priorities?**

A: SolarEdge Home Battery can be coupled, with a Genesis or Energy Hub inverter to an existing system with at least the minimal kWp of PV connected to it. Programming to manage the EV charge will be possible via a SolarEdge smart home relay or other control mechanism.

**Q19: Will the required firmware be updated via SetApp?**

A: Yes. The battery firmware is updated via SetApp which uses the inverter as a communication bridge with the battery, via the SolarEdge Energy Net or RS485 protocol.

**Q20: Can the batteries be wall mounted? If so, must it be vertical?**

A: Yes, the connections of the SolarEdge Home Battery are at the rear which dictate its correct direction of installation.

**Q21: Will SolarEdge inverters continue to be compatible with other batteries (e.g. LG)?**

A: Yes, with the LG Prime range.

**Q22: So, for HD-Wave inverters without the integrated StorEdge Interface (SESTI), there is no need to connect any other interface?**

A: If there is an LG Prime or x 3 SolarEdge Home Battery are being installed, then the DC Combiner is required. If one or two of the SolarEdge Home Batteries are being connected then the use of the DC Combiner is optional.

**Q23: Can I install a 30kW PV system with 3 inverters and 9 Home Batteries?**

A: Yes, this configuration with 3 inverters each with 3 SolarEdge Home Batteries connected is the one that maximizes the potential of our nine Home Batteries solution.

**Q24: When will a bigger battery come out for the commercial market?**

A: The development work on storage products, which began prior to SolarEdge's acquisition of Kokam, has set a clear course for the development of new solutions for our battery storage solution at all levels of applications, including commercial.

Unfortunately, we can't currently provide a clear timeframe for the availability of a commercial storage solution in Australia. It is not expected within 2022.

**Q25: Can the Home Battery be installed in the living room like Sonnen?**

A: Not in Australia, as AS/NZS 5139:2018 dictates that batteries must not be installed in habitable locations.

**Q26: What is the right number of handles to use when lifting the battery?**

A: Use 4 handles for lifting the battery, and make sure that each handle is inserted all the way into the threaded hole. Please refer to the Home Battery manual to ensure safe handling of the battery.

**Q27: If you have a 6kW PV system then what is the maximum storage capacity?**

A: Three batteries - therefore just under 30kWh with 3 x 9.7kWh.

**Q28: Can STCs be claimed on the full 300% oversize when the battery is connected?**

A: If the inverter has been installed under the “Multiple Mode” classification then the 300% oversizing for the purpose of claiming STC's is applicable. If the inverter has been installed as grid-connect PV or Grid-connect PV + Battery then the 133% oversizing for claiming STC's applies.

**Q29: How do we design the strings for a 15kWp of panels using 5kWp Energy Hub with LG PRIME 10H battery charge rate 5kWp + 10kWp (200% oversizing)?**

A: 15kWp into the DC Combiner to which the batteries are already connected. Although the inverter output is only 5kWp, the 15kWp into the combiner allows for 5kW inverter output + 5kW to charge each battery.

**Q30: My understanding was that the Genesis inverter could work with the battery (just without backup). Is this correct?**

A: Yes the Genesis will connect to the SolarEdge Home Battery albeit without the option for backup.

**Q31: Is there a maximum cable length limit between the inverter and the battery?**

A: Yes, 50 meters. Please note that when using a cable longer than 25 meters, a 10mm<sup>2</sup> cable should be used. Please refer to this table in the Home Battery Quick Start Guide.

Max Distance (m) <sup>1</sup>	Single Battery	Two Batteries	Three Batteries <sup>2</sup>
<11	6	6	6
11-20	6	6	10
21-30	6	10	NA
31-35	6	NA	NA
36-50	10	NA	NA

**Q32: In order to have backup capability do you need the Backup Interface (BUI) as well, not just the Energy Hub?**

A: Correct, if you don't have the BUI then the Energy Hub is a 'Grid-connect PBV and Battery Inverter' as per the CEC definitions. With the BUI it falls under the Multiple Mode category.

**Q33: Does the Energy Hub come with a CT meter or do I need to purchase the CT meter?**

A: The Energy Hub includes the Modbus Meter, but the 70A CT will need to be sourced separately. The Backup Interface however comes with the CT built in.

**Q34: Will the Home Battery be supported with backup on the three phase hybrid inverters?**

A: The SolarEdge three phase hybrid inverter doesn't have the backup hardware for this capability. We are looking to launch a three phase backup solution in the second half of 2022.

**Q35: What distance range do you expect from the wireless communications?**

A: End-to-end is around 50m (depending upon what's in between). However, it's a mesh network so additional devices with help to increase range.

**Q36: Is the Home Battery compatible with any VPP (Virtual Power Plant)? In other words, does it have some sort of API integration at the moment?**

A: Yes, but the API for VPP is based on the inverter and not the battery