

# SolarEdge Energy Bank FAQs

**Q1: For new systems, do you not need the StorEdge Interface (SESTI) or StorEdge HD-Wave inverters (with integrated StorEdge Interface)?**

A: We can confirm that the SolarEdge Energy Bank battery will be compatible with all versions of the HD-Wave inverter, without however the need to connect the StorEdge Interface).

**Q2: Is anything expected for three phase systems?**

A: It is possible to install HD-Wave single phase inverters with SolarEdge Energy Bank also for three phase systems, up to a maximum of three inverters per system and three SolarEdge Energy Bank batteries per inverter. However, SolarEdge Energy Bank is not compatible with our three phase inverters.

**Q3: Will it be possible to use the new batteries for backup operation?**

A: No, as the functions of the storage system are defined not so much by the battery itself but by the inverter that manages its charge and discharge cycles. The HD-Wave inverters compatible with the Energy Bank can be used only in on-grid configurations and do not currently offer backup services, although backup functionality is expected in 2022.

**Q4: Isn't the battery heavy? There is not always the possibility of arriving with a manual lift. Is the system not decomposable?**

A: SolarEdge Energy Bank is a monolithic battery and therefore cannot be broken down into its construction elements. The 121 kg weight, which is not negligible, is to be considered in the set of characteristics of the battery, as it does not depend solely on the size but also on the advanced safety mechanisms, reliability and overall system performance that have guided development from the beginning. of the product. The installation method naturally provides that the handling of the battery takes place safely with the help of lifting means if necessary.

**Q5: The old inverters with displays are not compatible with this battery even using the StorEdge Interface?**

A: Correct, SolarEdge Energy Bank is compatible only with inverters activated via SetApp.

**Q6: Can the battery inverter system manage zero-watt grid feed? So only supports maximized self-consumption function?**

A: Yes, the storage management can also be set in conjunction with the zero-immersion program 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.

**Q7: How many battery life cycles are there?**

A: There are no limitations on the expected life cycles of the SolarEdge Energy Bank battery. More information can be obtained from the warranty terms that will be made available close to the actual availability of the SolarEdge Energy Bank in distribution.

**Q8: With the HD-Wave 2.2kW, the battery can be charged to 100% or never reaches 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 plant in DC, which determines the amount of energy available from the generator; the user's consumption profile that determines how much of the energy produced by the solar source is in excess of the customer's instant needs. The SolarEdge Designer's configurator allows, once the user consumption data has been entered, to evaluate the kWh that can be accumulated in the SolarEdge Energy Bank battery thus offering a calculation tool that can accurately answer this question.

**Q9: Is there an anti-blackout function?**

A: No, the functions of the storage system are defined not so much by the battery itself but by the inverter that manages its charge and discharge. The HD-Wave inverters compatible with SolarEdge Energy Bank and can be used only in on-grid configurations and do not offer backup services.

**Q10: When will there actually be battery availability?**

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

**Q11: Will it be possible to implement the new wireless protocol also on existing inverters?**

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

**Q12: Are the current SetApp HD wave inverters already compatible with the Energy Bank?**

A: We can confirm that the SolarEdge Energy Bank will be compatible with the current SetApp HD wave inverters, activated with SetApp, in all versions, without the need to provide a SESTI S4.

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

A: There is currently no solution for upgrading inverters with display to SetApp. Nevertheless, this is useful feedback regarding market needs and which could be followed by the development of an ad-hoc kit. We invite you to keep up to date with SolarEdge news via our newsletter.

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

A: Yes, SolarEdge Energy Bank can be combined with HD-Wave inverters with SetApp, even in AC coupling without the need for a StorEdge Interface (SESTI).

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

A: We invite you to contact your SolarEdge distributor in order to define the order procedures, have a dedicated quotation and plan a possible future delivery for your projects and specific requirements.

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

A: Yes, it is possible to add an AC coupled single phase HD-Wave inverter, connected to 1-3 SolarEdge Energy Bank batteries.

**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 central hours of the day?**

A: It is possible to customize the storage management profiles by acting on the specific functions that the monitoring portal makes available. However, it remains to be considered that if there is PV energy in excess of the user's needs, even in the morning, this energy is to be considered as energy that can be stored in the SolarEdge Energy Bank battery, instead of being fed into the grid. However, it is possible to find the right system sizing, both for PV power and by exploiting the scalability of the SolarEdge Energy Bank solution, in order to take advantage of the extra production during the central hours of the day.

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

A: SolarEdge Energy Bank can be provided in AC coupling, with HD-Wave inverters in existing systems characterized by the presence of priority electrical users. Programming can be carried out to find the balance of the system on the requests of the end customer. However, it is necessary to consider that the programming cannot be managed solely by the SolarEdge system, in fact in this specific case it may be necessary to provide specific settings also for the other components of the non-SolarEdge system.

**Q19: The firmware will be updated via SetApp?**

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

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

A: Correct. The connection system of the SolarEdge Energy Bank is in the rear part of the same and imposes its correct direction of installation. More details on the installation requirements will be available after the summer with the new technical qualification courses for installers.

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

A: Yes.

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

A: Exactly.

**Q23: Can I install a 30kW system with 6 inverters and 18 energy Banks? Then I'll install an inverter battery for a commercial plant?**

A: The configuration with 3 inverters each with 3 SolarEdge Energy Banks connected is the one that maximizes the potential of our nine Energy Banks solution. It is not possible to foresee more than 3 inverters with storage in the single system, both for a reason linked to the management of the intelligence implemented on board the inverter, and for a matter linked to the unbalance control between phases which, due to the technical regulations, must be kept beyond below 6kW, and that a configuration with more than 3 inverters does not allow to automatically ensure.

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

A: The development work on storage products, which began with 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. We invite you to stay updated on the SolarEdge product newsletters.

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

A: The range of operating temperatures and the IP protection degree of the SolarEdge Energy Bank, allows both indoor and outdoor installations, giving maximum flexibility in identifying the optimal technical solution for the system. Further information on the installation process will be available after the summer, close to the actual availability of the battery in distribution.

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

A: Use 4 handles for carrying the battery and make sure that each handle is threaded all the way into the hole.

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

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