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1. What is the SolarEdge Nexis Solution 3ph?

SolarEdge Nexis is the next-generation, residential PV-plus-storage solution by SolarEdge, built for 3ph homes. It combines a single 8-20 kW inverter with a modular battery for high performance, fast installations, and multi-layered safety. It's designed for new systems or retrofits and for indoor/outdoor installations. For backup, pair it with the SolarEdge Home Backup Interface - Three Phase, to enable whole-home backup during outages.

2. Can the SolarEdge Nexis Inverter 3ph connect with the existing SolarEdge Home Battery 48V? Can the SolarEdge Nexis Battery connect with the existing SolarEdge Home Hub Inverter – Three Phase?

The SolarEdge Nexis Inverter is not compatible with the existing SolarEdge Home Battery 48V, and the SolarEdge Nexis Battery is not compatible with the existing SolarEdge Home Hub Inverter – Three Phase, as it's a new technology platform. However, it's possible to operate both platforms on one site, as SolarEdge Nexis solution supports both DC-coupled and AC-coupled configurations.

3. Can the SolarEdge Nexis Inverter 3ph connect to the existing SolarEdge Home Backup Interface – Three Phase?

Yes, the SolarEdge Nexis Inverter 3ph is compatible with the existing Backup Interface – Three Phase which is required in order to provide backup power during an outage.

4. In what configurations can the Inverter be installed?

The Inverter is designed for PV-only installations, for storage installations with the SolarEdge Nexis Battery Stack, and for backup installations with the SolarEdge Home Backup Interface – Three Phase.

5. Is the SolarEdge Nexis Inverter compatible with both 1ph and 3ph installations?

The SolarEdge Nexis product family includes dedicated inverter models for different grid types. The SolarEdge Nexis Inverter 1ph supports both 1ph and 3ph grids, while the SolarEdge Nexis Inverter 3ph is designed exclusively for 3ph grids. The SolarEdge Nexis Battery, on the other hand, is universally compatible with both 1ph and 3ph systems.

6. What is the Inverter's power range?

The SolarEdge Nexis Solution features a single powerful inverter with a range of 8-20 kW, allowing installers to cover small to large systems with one versatile inverter. The inverter's power model is set by the installer during the on-site inverter commissioning process. It is possible to set the inverter AC power rating to a higher figure than its actual DC power. For example, a roof with 5 kW peak DC power (e.g. 10 panels, each rated 500W with S650A Power Optimizers) can be connected to an 8 kW or even a 20 kW power rated Nexis Inverter 3ph.

7. What is the capacity and continuous power of each Battery Block or battery Stack?

Each Battery Block has 4.9 kWh nominal capacity and 3.5 kW power (charge/discharge). Accordingly, each Battery Stack offers up to 19.6 kWh nominal capacity and up to 14 kW power (charge/discharge). Multiple Battery Stacks offer up to 28 kW charge power and up to 20 kW discharge power (depending on Inverter model)*.

8. How many Battery Blocks can be combined to form one Battery Stack?

Each Battery Stack consists of 1-4 Battery Blocks, allowing to tailor storage capacity to meet site requirements. Note: Every Battery Stack must include one Battery Link for proper operation.

9. How many Battery Stacks can be connected to a single inverter?

Each inverter supports up to 4 Battery Stacks, for a total of up to 16 Battery Blocks - providing up to 78.4 kWh of nominal storage capacity per inverter**. You can either:

- Chain up to 4 Battery Stacks to a single inverter's battery input, or
- Connect each Battery Stack separately to one of the inverter's 4 battery inputs.

10. Is there a minimum number of Battery Blocks required to start up a Battery Stack?

Each Battery Stack can operate with as few as 1 Battery Block and scale up to 4 Blocks as power and energy needs grow.

11. What is the Battery Link?

The Battery Link is the interface unit of each Battery Stack to the Inverter. It connects the Stack to the inverter and houses the communication interface and main control electronics. In case of multiple Battery Stacks, the Battery Link of each Stack connects between the Stacks and the inverter.

12. How is the Battery Stack assembled?

Each Battery Block is assembled using the Simple-Click™ architecture - an innovative mechanism that allows Blocks to be stacked one on top of the other and clicked securely into place. The Battery Link is placed at the top of the Stack. The entire battery assembly requires no wiring, ensuring a fast, clean, and reliable installation.

13. What is the backup power of the SolarEdge Nexis Solution?

The maximum output backup power is up to 20 kW per inverter, which is available for all inverter power classes and is independent from the commissioned on-grid power. In case of multiple Inverters, backup power scales accordingly.

14. If a homeowner started with a PV-only inverter, what is required to add batteries later on?

The SolarEdge Nexis Solution is fully scalable and battery-ready, allowing homeowners to add up to 4 Battery Stacks at any time without major changes to the existing system**. Once the homeowner decides to add storage, the inverter connects directly to the batteries for a seamless upgrade. In addition, with the Battery Optimizer technology, homeowners can mix old and new blocks within the same stack with automatic recalibration.

15. How does the SolarEdge Nexis Solution improve the installer's installation experience?

SolarEdge Nexis Solution offers streamlined installation experience, enabling installers to move faster to the next job:

- A single PN inverter for all power classes
- A battery that fits both 1ph and 3ph installations
- No need to open the inverter's cover, as all wiring connections are external
- Designed for flexible installation indoors or outdoors
- The battery can be installed on the floor or wall (The inverter is wall-mount only).
- A modular Battery Stack - easier to carry individual Battery Blocks
- Simple-Click™ architecture to quickly stack Battery Blocks with no additional wiring
- Fast intuitive commissioning process designed to save time and reduce complexity
- A lightweight, slim, backup interface

16. Does the SolarEdge Nexis Solution include SolarEdge comprehensive safety features?

Yes. The SolarEdge Nexis holistic safety suite includes SafeDC™, Rapid system shutdown, and AFCI protection, along with module-level monitoring and ThermoShield™ technology for enhanced battery safety. It also adds an extra layer of protection with Power Optimizers featuring Sense Connect, which detects and prevents electrical arc risks early. As well as proactive cybersecurity measures, in compliance with cybersecurity standards and policies.

17. What is SolarEdge ThermoShield™ technology?

An additional, built-in safety layer in the SolarEdge Nexis Battery, reinforcing its internal design by containing a potential thermal event to a single cell - so it can't propagate to neighboring cells. This superior technology not only successfully passed the stringent UL 9540A thermal runaway fire-propagation test but is engineered to **go beyond** the test's intent by stopping propagation at the source.

18. What does Inverter high efficiency at low power mean?

It indicates that an inverter can maintain high conversion efficiency when operating at low power levels (e.g., a few hundred watts). As battery attachment rates are rising, systems are designed for self-consumption, which means they spend many more hours running at low power rather than at peak power. Many inverters lose significant efficiency below roughly 10-15% of their rated capacity. In contrast, the SolarEdge Nexis Inverter is engineered to deliver consistently high efficiency even at low power, maximizing energy savings and system performance day and night.

19. Why is high efficiency at low power important during the day?

Higher efficiency at low power converts more of the morning/evening “tails” and weak-irradiance periods into usable AC energy, increasing daytime self-consumption and overall PV-to-AC yield.

20. Why is high efficiency at low power important at night?

Nighttime household loads are generally modest. High efficiency in such low power efficiency can deliver those loads with minimal loss, extending battery autonomy and preserving capacity for outages or time-of-use peak windows.

21. What is the SolarEdge Nexis Battery Optimizer, and how does it enhance its performance?

The SolarEdge Nexis Battery Optimizer is a block-level control and management layer that independently manages each Battery block to maximize efficiency, usable energy and operational robustness. At low-power operation it selectively activates a single block while balancing state-of-charge (SoC) across all blocks, preserving the stack’s ability to deliver maximum power and high efficiency when higher demand occurs. It also performs per-block thermal control to keep every block within an appropriate temperature range, supporting safe operation. The optimizer is designed to maintain system continuity - battery operation can continue even if a single block is faulty and supports lifecycle flexibility by allowing “old” and “new” blocks to be mixed in the same stack, with automatic system recalibration.

22. What makes this solution highly durable?

SolarEdge Nexis is built-to-last offering full peace of mind, with:

- Wide operating ambient temperature range: inverter: -40 °C to +60 °C, battery: -20 °C to +55 °C
- Metal enclosure and an advanced internal thermal heating mechanism
- Flood-ready with Battery Blocks designed to withstand submersion in up to 37 cm of standing water for up to 72 hrs.***
- Inverter engineered with advanced SiC technology for reliable performance
- Multi-layered safety features, including ThermoShield™ technology
- SolarEdge Nexis was engineered with considerable performance margins. As such, operating at standard 10 kW and furthermore at below 1 kW power levels means operating well within its comfort zone. Such lower “stress” on its components can translate to strong long-term durability.

23.What is the Simple-Click™ architecture?

The Simple-Click™ architecture is an innovative lock mechanism that allows each Battery Block to stack and click securely into place, connecting to the Battery Link. This design enables fast, effortless, and secure assembly (and disassembly or upgrade) of the entire Battery Stack - no electrical wiring required.

24.Does SolarEdge Nexis Solution support Time-of-use and Dynamic electricity tariffs?

Yes. The Solution is tariff-optimized, using AI-powered energy management to automatically shift, store, and sell energy at the most cost-effective times. This smart operation helps homeowners reduce electricity bills and maximize savings under dynamic or time-of-use tariff structures****.

25.How does module-level optimization help production and service?

SolarEdge Power Optimizers perform module-level MPPT (Maximum Power Point-Tracking), improving yield on shaded or complex roofs and enabling module-level monitoring and troubleshooting for targeted O&M. SolarEdge Nexis is built to leverage these MLPE (Module-Level Power Electronics) benefits to provide enhanced system performance.

26.Is SolarEdge Nexis compatible with SolarEdge ONE EV Charger and the broader SolarEdge ecosystem?

Yes, pairing SolarEdge Nexis with the SolarEdge ONE EV Charger (models EVN22B / EVN22P) for standard EV charging is supported from day one. Yet, smart solar charging, including solar-optimized and excess PV charging, is expected to be available via a software update in Q3 2026.

27.What is the warranty term for SolarEdge Nexis?

Inverter: 10 years (extendable at an additional cost). Battery: 10 years, with 15-year expected service life. Always refer to the SolarEdge Limited Product Warranty and the specific product warranty for your region.

* 14 kW per Battery Stack. Full 28 kW expected availability in Q3 2026.

** Full storage capacity of 78.4 kWh expected availability in Q3 2026.

*** SolarEdge Nexis Battery is not intended for use in water. Please keep it away from water sources during daily use. Yet, in case of water submersion, when installing the battery on the floor, the battery is designed to protect up to 37 cm above the floor for up to 72 hrs. and when wall-mounted, up to 37 cm plus the mounting height above the floor.

**** Availability of these features varies between locations. For availability within your region, check with your SolarEdge representative.