SolarEdge Nexis 1ph (NAM)

FAQ

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System overview & compatibility

1. How does SolarEdge Nexis make an innovative difference?

SolarEdge Nexis is a modular, scalable solar or solar-plus-storage solution with enhanced backup, flexible installation, and maximized performance. Its modular design is tailored to fit any home and budget, and it can easily be expanded with small capacity steps of 5 kWh Battery Blocks.

2. When is SolarEdge Nexis expected to be available in North America?

SolarEdge Nexis is currently expected to be available in Q'3 2026.

3. Backward compatibility:

- **Can the SolarEdge Nexis Inverter be paired with the existing Power Optimizers?**

  SolarEdge Nexis Inverter can be fully paired with the existing Power Optimizers- both S-Series and P-Series.

- **Can the SolarEdge Nexis Inverter connect with the existing SolarEdge Home Battery, and the SolarEdge Nexis Battery connect with the existing SolarEdge Home Hub Inverter?**

  SolarEdge Nexis Inverter will not be compatible with the existing SolarEdge Home Battery, and the SolarEdge Nexis Battery will not be compatible with the existing SolarEdge Home Hub Inverter, as it's a new technology platform.
  However, you can operate both platforms on the same site, as SolarEdge Nexis Battery also supports an AC-coupled configuration.

- **Can the SolarEdge Nexis Inverter connect to the existing SolarEdge Home Backup Interface?**

  SolarEdge Nexis Inverter isn't compatible with the existing SolarEdge backup interface. Instead, it supports the SolarEdge Nexis IslandDER™- a custom Meter Collar designed for simplified backup installations. This solution was developed in collaboration between SolarEdge and ConnectDER and is sold to distribution by ConnectDER.

4. Does the system support DC-coupling only?

No, it supports both DC & AC-coupling, as a tailored system for any home.

5. If a homeowner started their PV journey with a PV-only Inverter, what would it take for them to support batteries in the future?

SolarEdge Nexis is scalable- you can grow with your energy needs without hassle and easily connect the Inverter to up to four Battery Stacks once you decide to*.

6. For installers and business owners- what are the main benefits of SolarEdge Nexis' modular design?

- A scalable solution tailored to each home and budget- right-size capacity to actual homeowner needs- helps increase deal close rates with a better-fit solution.
- Easy upsell path- expand in small increments using 5 kWh Battery Blocks.
- Lower lifting weight- safer handling for crews, easier transport and installation (including stairs, basements, and attics).
- Resilience- if one Battery Block is down, the remaining blocks can continue operating.
- World-class serviceability- one-person service with compact, replaceable parts- easy inverter and battery replacement, replaceable DC/DC enables inverter swap without battery replacement, replaceable fans in the Battery Link can be accessed without dismantling the system.

7. What is the chemistry of the Solar Nexis Battery System?

It's LFP (Lithium Iron Phosphate).

Sizing & electrical limits

8. What is the Inverter's power range?

SolarEdge Nexis features a single powerful inverter with a range of 3.8-13 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

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

Each Battery Block has a nominal capacity of 5 kWh and a power rating of 3.5kW (charge/discharge).
Accordingly, each Battery Stack offers up to 20 kWh nominal capacity and up to 13W power (charge/discharge).

10. How many Battery Blocks can be connected to one Battery Stack?

Each Battery stack can be connected with up to 4 Battery Blocks.

11. How many Battery Stacks can be connected to one inverter?

One inverter will support up to 4 Battery Stacks, with up to 16 Battery Blocks (=up to 80 kWh nominal capacity per inverter)*.

12. Is there a minimum number of Battery Blocks that need to be connected for the startup of the battery Stack?

The Battery Stack is scalable, which is its beauty! you can connect 1 to 4 Battery Blocks to a Battery Stack and grow with your energy needs (note: each Battery Stack should also include a Battery Link).

13. Why is the Battery Stack limited to 13kW power, if each Battery Block has 3.5kW?

Due to max. current limitations, we have limited the power to match the inverter's capacity.

14. What homeowner benefits are enabled by the fast-charging capability?

The SolarEdge Nexis Battery can fully charge a Battery Stack in as little as 80 minutes.
This can provide 3 key benefits:

- Maximize savings with more energy.
- Improved readiness for an upcoming outage.
- Maximize benefits from grid services events.

Physical footprint & handling

14. What is the weight of the solution's different components?

- Inverter 70.5LB/32kg
- Battery Block 121LB / 55kg
- Battery Link 35LB / 15.8kg

(Estimated weights, subject to change).

15. What are the dimensions of SolarEdge Nexis' different components?

- Inverter: 26.3 × 14.2 × 8.8
- Battery Link: 26.3 × 6.5 × 7.6
- Battery Block: 26.3 × 14.7 × 7.4

(Estimated dimensions in Inches, W × H × D, subject to change).

16. How is it maximizing the required wall space compared to the main competitors?

SolarEdge Nexis requires less wall space (in sq ft) vs the leading string and microinverter parallel solutions:

- Leading string solution requires 24.4 sq ft (applicable to installations where a MID- Micro Grid-interconnection Device is required), while the equivalent SolarEdge Nexis capacity configuration requires 18.6 sq ft- saves over 20% wall space.
- Leading Micro-Inverter solution requires 25.9 sq ft (=highest-capacity offering of 10kWh), while the equivalent SolarEdge Nexis capacity configuration requires 14.9 sq ft -saves over 40% wall space.

In addition, when scaling up with additional storage units, SolarEdge Nexis results in even higher saved wall space, as it's a modular, stackable solution with Battery Blocks that are added on top of each other, while the leading string and microinverter solutions are not stackable and are installed one near the other.

Installation experience & commissioning

17. In what configurations can the Inverter be installed?

The Inverter is designed for PV-only installations (wall-mounted), storage installations (wall or floor-mounted with the Battery Stack), or backup installations (wall or floor-mounted with the Battery Stack).

18. What is the Battery Link?

This is the Battery Stack interface unit, which includes the connection of the battery stack to the Inverter, the communication interface, and the main control unit.

19. How can the inverter be connected to the Battery Stack?

The inverter connects to the Battery Stack via the Battery Link. This can be done in one of the 2 following ways:

- As an "all-in-one" on top of the Battery Stack, which utilizes the Simple-Click™ architecture, an innovative locking mechanism that seamlessly secures the inverter to the Battery Link.
- As a "stand-alone" using wiring from the inverter to the Battery Link.

20. How is the Battery System being assembled?

Each Battery Block is connected via the Simple Click™ architecture- an Innovative locking mechanism that stacks and clicks each Battery Block in place, and also to the Battery Link- locking them all together to the inverter, without wiring or drilling.

21. What is the Simple Click™ architecture?

This is an Innovative locking mechanism that stacks and clicks each Battery Block into place, and also to the Battery Link- locking them all together to the inverter by using the quick connectors. This mechanism enables the assembly of the Battery System effortlessly & securely with no electrical wiring needed- just stack & click!

22. How does SolarEdge Nexis improve the installation experience?

SolarEdge Nexis provides greater flexibility in the Inverter, battery, and backup, resulting in a streamlined installation experience, enabling you to move faster to your next job:

- A single SKU inverter for all power classes and installation types.
- Easier inverter wiring for wall/ floor-mounting, and enhanced communication options.
- A modular Battery Stack - easier to carry individual Battery Blocks.
- Simple Click™" architecture to quickly stack Battery Blocks with no additional wiring.
- A custom Meter Collar capability for Main Meter Combo (MMC) panels and non-main meter combo reduces labor and hassle.
- <30 min. to install and < 30 min. to commission (~8 min. "attention time" only, see question #27 (*estimated durations, subject to change).

23. What are the commissioning and installation durations of SolarEdge Nexis?

<30 min. to install

<30 min. to commission (inverter, Battery, and meter collar) with typically around 8 minutes of "Attention time"-the duration during which the installer's attention is needed for completing the commissioning. During the initial setup time (~20 min) other automatic operations are orchestrated by SolarEdge cloud, allowing the installer to perform other tasks in parallel. (*Estimated durations, subject to change).

24. What is "Attention time" in the commission process?

Attention time" refers to the duration for which the installer's attention is needed to complete the commissioning, typically ~8 minutes. During the initial setup time (~20 min) other automatic operations are orchestrated by SolarEdge cloud, allowing the installer to perform other tasks in parallel.

25. How does SolarEdge Nexis wiring enable a more aesthetic look?

On the inverter side, SolarEdge Nexis supports back/side/bottom wiring entries, as well as dual-side AC/DC connectivity, to help hide conduit and reduce visible wiring. In addition, the inverter can be assembled on the Battery Stack, which can reduce separate wall-mounted components and cable runs- creating a cleaner-looking installation.

Backup & SolarEdge Nexis IslandDER™

26. What is the backup power of SolarEdge Nexis ?

The maximum output backup power is up to 14.5kW, which is available for all Inverter's power classes. This parameter can also be configured by the installer during system commissioning.

27. How does the SolarEdge Nexis backup solution make the Installers' lives easier?

The new solution features the SolarEdge Nexis IslandDER™, a custom Meter Collar for simplified backup installations in Main Meter Combo (MMC) panels.
As such, and with less hassle, you can unlock full Home Backup installations while avoiding additional Sub-panels, making the Installer's life much easier and significantly reducing costs.
This solution was developed through a collaboration between SolarEdge and ConnectDER, and is sold to distribution by ConnectDER.

28. Can I use the SolarEdge Nexis IslandDER™ also in installations without installing it behind the meter?

Yes, you can use the SolarEdge Nexis IslandDER™ also for Non-MMC installations.
In that case, the installer will need to buy an off-the-shelf meter socket and accessories, mount the SolarEdge Nexis IslandDER™ on it, and close the front with a dedicated jumper cap (sold separately) instead of a meter.
By doing so, the result is a separate BUI device for any non-MMC installation.

29. Where can I get a meter socket and accessories like the cap?

These items are available from different vendors and sold by many distributors as shelf items. SolarEdge has marked the needed PN of these parts, and selected distributors will hold them together under a single PN as a set.

30. What components are in the Non-MMC standalone socket set?

The Non-MMC standalone socket set consists of:

- A standalone 200A socket with an MCB and landing points where the inverter can be connected.
- A jumper cap for closing the meter collar instead of a meter.
- A 200A AC disconnect to be installed before the standalone meter socket, where regulation mandates it.
- A floating Neutral bar, to be installed in the standalone socket to avoid Neutral Ground bonding where regulation mandates.

31. Can a different stand-alone socket be used, for instance, without MCB or landing points, a different AC disconnect, or a cap?

Yes, any standard socket compatible with the SolarEdge Nexis IslandDER™, certified, and compliant with NEC code and AHJ regulations can be used.

32. Can different accessories for standalone socket installation be used?

Yes, any standard accessories that are certified and comply with the NEC code and AHJ regulations can be used.

33. Does every Non-MMC installation require an AC disconnect and a floating Neutral bar or an MCB?

No, this depends on the specific installation parameters, the applicable NEC code, and the AHJ installation.

34. Can the SolarEdge Nexis IslandDER™ be used behind the meter in Non-MMC sockets?

Yes, depending on whether the relevant utility has approved the use of the SolarEdge Nexis IslandDER™ behind its meter.

35. When will I be able to use the SolarEdge Nexis IslandDER™ behind the meter in my region?

SolarEdge Nexis IslandDER™ behind-the-meter availability is based on utility approval.
For the most up-to-date list, check ConnectDER's Approved Utilities page. If your utility isn't listed, contact your SolarEdge regional sales manager.

36. Who supports the SolarEdge Nexis IslandDER™ once installed?

Initial support and service are provided through SolarEdge.

37. How does the SolarEdge Nexis IslandDER™ connect to the SolarEdge Nexis Inverter?

The SolarEdge Nexis IslandDER™ connects directly to the SolarEdge Nexis Inverter, using a flexible CAT5e cable that supports digital communication up to 164 feet (50 meters).
This streamlined setup eliminates the need for additional boxes, simplifying installation and reducing system complexity.

38. Does it support the same LRA rating as the existing SolarEdge Home Hub Inverter Single-Phase?

It supports a higher level, with a 185A LRA rating during an outage, and covers 5-ton HVAC along with the home's base loads.

(Note: a minimum of 3 Battery Blocks is required to support this LRA value. With one Battery Block, a 62A LRA rating is supported, and with two Battery Blocks, the supported LRA rating is 124A).

39. What is the maximum phase in-balance the system can support during backup?

The SolarEdge Nexis Inverter can support up to 5.75kW phase-in balance.

40. How is this solution designed to deliver more backup hours?

During the backup operation, the system will typically operate in low-power conditions for most of the hours. With high system efficiency and advanced "Battery Optimizer" technology, it enables optimizing the system's performance in low-power conditions by managing each Battery Block independently, enabling higher efficiency and longer backup hours.

Communications & networking

41. What external communication options are available for SolarEdge Nexis?

SolarEdge Nexis supports the following communication options for internet connection:

- Ethernet
- Wi-Fi (antenna included in the inverter)
- LTE (antenna included in the inverter)
- The cellular (LTE) module is not included and must be purchased separately in advance

42. What communication is used within the SolarEdge Nexis internally?

The SolarEdge Nexis Inverter, SolarEdge Nexis Battery, and the SolarEdge Nexis IslandDER™ (meter collar) communicate via CAN bus, requiring field wiring.

43. Is the SolarEdge Home Network supported in SolarEdge Nexis?

No, SolarEdge Home Network is not supported in SolarEdge Nexis.

Safety & durability

44. Does SolarEdge Nexis still provide the existing safety mechanism features?

Of course, it still provides the SafeDC™, Rapid Shutdown, AFCI mechanism, Module-level monitoring, ThermoShield™ technology for enhanced battery protection, and adds an additional

layer- as the Sense Connect will be supported not only by the Power Optimizers, but also in the Inverter and the Battery Terminal Blocks**.

45. What is ThermoShield™ technology?

An additional layer of SolarEdge Nexis Battery System's safety protection, developed to limit the possibility of cell-to-cell thermal runaway propagation, by locking it down to a particular cell. This capability is designed to exceed the strict standards required by UL 9540A.

46. What makes this solution so highly durable?

A highly trusted, built-to-last solution for peace of mind:

- A reinforced metal enclosure- TYPE 4X.
- High operating temp -4ºF : +131ºF.
- Designed to operate in direct sunlight (under limited conditions).
- Flood-ready- up to 1 ft of standing water for up to 72 hours.
- A multi-layered safety feature, including ThermoShield™ technology- designed to prevent a cell-to-cell thermal runaway propagation.
- Advanced cybersecurity for maximum visibility against cyber threats.

Policy, incentives, ordering & warranty

47. Does the new solution still deliver the IRA incentive to TPOs?

Yes, SolarEdge Nexis Inverter and SolarEdge Nexis Battery will be manufactured domestically in the US for the purposes of providing domestic content % for our customers (referring to IRS Notice 2025-08, MLPE rooftop column, we expect to provide 24.8% for inverters and optimizers when paired together and 59.5% for BESS).

48. If a homeowner has an existing NEM2 system, can they maintain its incentives while installing SolarEdge Nexis?

Yes, homeowners can expand their solar capacity without jeopardizing their NEM 2 status. SolarEdge Nexis' NEM Integrity mode is designed to ensure that all the power generated by the new system is used for self-consumption and is not sent back to the grid.

49. Who can the SolarEdge Nexis IslandDER™ be ordered from?

The SolarEdge Nexis IslandDER™ is sold to distribution through ConnectDER.

50. When ordering SolarEdge Nexis, does it include all accessories needed for both floor-mounted and wall-mounted installations?

It includes the floor-mounting hardware only.
For wall-mounted installations, a separate wall-mount bracket kit must be purchased in advance.

51. 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.
- SolarEdge Nexis IslandDER™: 12 years (by ConnectDER).

Always refer to the SolarEdge Limited Product Warranty and the specific product warranty for your region.

**4th battery stack support expected in Q1 2027.*

***The Sense Connect support, also by the Inverter and the Battery Terminal Blocks, is expected in 2026.*