

SolarEdge Nexis Inverter

Single Phase, for North America

Our most powerful inverter yet – delivering exceptional performance, simplified installation, and leading safety, with a scalable path to storage and backup

NX3800T-US
NX5700T-US
NX7600T-US
NX9600T-US

NX10000T-US
NX11500T-US
NX13000T-US



solar**edge**

SolarEdge Nexis Inverter

For North America

Applicable to inverters with Purchase SKU ⁽¹⁾	UNX13000T-US00UCYN4 / NX13000T-US00UCYN4							
	Model Number	NX3800T-US	NX5700T-US	NX7600T-US	NX9600T-US	NX10000T-US	NX11500T-US	
OUTPUT – AC ON GRID								
Maximum AC Power Output @ 240V	3840	5760	7680	9600	10,000	11,520	13,000	W
Maximum AC Power Output @ 208V	3330	4990	6650	8320	8600	9980	11,200	W
AC Output Voltage (Nominal)	208 / 240							Vac
AC Output Voltage (Range)	183 – 264							Vac
AC Frequency Range (min – nom – max)	59.3 – 60 – 60.5							Hz
Maximum Continuous Output Current	16	24	32	40	42	48	54	A
Total Harmonic Distortion (THD)	< 5							%
Power Factor	1, adjustable from -0.85 to 0.85							
Residual Current Detector / Residual Current Step	300 / 30							mA
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							
Charge Battery from AC (if allowed)	Yes, according to user configuration							
Typical Nighttime Power Consumption	< 7							W
Maximum Output Fault Current (80 μs)	140							A
Initial Output Fault Current (1 cycle)	56							A
Breaking Output Fault Current (180 ms)	54.5							A
OUTPUT – AC STANDALONE (BACKUP)								
Rated AC Power in Standalone Operation	14,500 ⁽²⁾							W
Maximum Continuous Output Current in Standalone Operation	60.5							A
Maximum Phase Imbalance Power in Standalone Operation	5750							W
Locked Rotor Amperage (LRA) Rating	185 ⁽³⁾⁽⁴⁾							A
AC L-L Output Voltage Range in Standalone Operation	204 – 264							Vac
AC L-N Output Voltage Range in Standalone Operation	102 – 132							Vac
AC Frequency Range in Standalone Operation (min – nom – max)	55 – 60 – 65							Hz
Total Harmonic Distortion (THD)	< 5							%
INPUT – DC (PV AND BATTERY)								
Transformer-less, Ungrounded	Yes							
Operational Voltage Range	370 – 450							Vdc
Maximum Input Voltage	480							Vdc
Nominal DC Input Voltage	400							Vdc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600kΩ Sensitivity							
Maximum Inverter Efficiency	99							%
CE Weighted Efficiency	98.5	99					%	
2-Pole Disconnection	Yes							
Number of Ports	4 for PV / Batteries							
Maximum Current per Port	60							Adc

(1) The Purchase SKUs are used for ordering purposes only. Only part numbers beginning with UNX qualify as domestic content. While the Purchase Number Variant encodes inverter attributes, 'NX13000T-US' should not be used to determine the installed inverter power model. Power Models are listed in the datasheet and can be verified on the inverter label, the SolarEdge Go installer application, the application commissioning report, or the SolarEdge Monitoring Portal.

(2) Up to 86 °F / 30 °C.

(3) For UNX13000T-US00UCYN4 only, pending firmware update. For NX13000T-US00UCYN4, the inverter is limited to a Locked Rotor Amperage (LRA) Rating of 124 A.

(4) With a minimum of 3 Battery Blocks.

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	Model Number	NX3800T-US	NX5700T-US	NX7600T-US	NX9600T-US	NX10000T-US	NX11500T-US	
DC CONNECTION – PV								
Maximum Input Power @ 240V	7680	11,520	15,360	19,200	20,000	23,040	23,040	W
Maximum Input Power @ 208V	6650	10,000	13,000	16,600	17,300	20,000	20,000	W
Maximum Input Current @ 240V	21	31	41	52	54	60	60	Adc
Maximum Input Current @ 208V	18	27	36	45	46	54	54	Adc
Supported Power Optimizers	SolarEdge P-Series, S-Series, and U-Series							
DC CONNECTION – BATTERY								
Supported Battery Types	SolarEdge Nexis Battery							
Maximum Number of Batteries per Inverter	Up to 16 Battery Blocks per Inverter ⁽⁵⁾							
Maximum Charge Power	24,000 ⁽⁶⁾⁽⁷⁾							W
Maximum Discharge Power	14,500 ⁽⁶⁾⁽⁸⁾⁽⁹⁾							W
2-pole Disconnection	Up to the inverter's rated standalone power							
Battery Communication	Wired CAN							
SMART ENERGY CAPABILITIES								
Consumption Metering	Built-in							
Standalone and Battery Storage	With SolarEdge Nexis IslandDER™ (separately purchased Meter Collar) for service up to 200A; up to 3 inverters ⁽⁶⁾							
ADDITIONAL FEATURES								
Supported Communication Interfaces	RS485, Ethernet, Cellular (optional), Wi-Fi, Wired CAN							
Warranty	10 years							
Revenue Grade Metering, ANSI C12.20	Built-in							
Integrated AC, DC, and Communication Connection Unit	Yes							
Inverter Commissioning	With the SolarEdge Go mobile application using built-in Wi-Fi Access Point for local connection							
Conduit Entries	Left, Right, Bottom, Rear							
Cyber Security Features	ISO 27001-certified data hosting, TLS 1.2+ encrypted communication, Secure boot, Multifactor authentication, Cryptographically signed firmware updates, Embedded EDR agents for proactive cyber threat detection ⁽⁶⁾							
STANDARD COMPLIANCE								
Safety	UL 1741SB, UL 1699B, CSA C22.2#107.1, C22.2#330, C22.3#9, ANSI/CAN/UL 9540							
Grid Connection Standards	IEEE 1547:2018, 1547.1:2020 SA; SB							
Emissions	FCC Part 15 Class B							
Power Control System (PCS)	UL 3141, UL 1741:2025 (11)							
Rapid Shutdown (RSD)	NEC 690.11, NEC 690.12							
INSTALLATION SPECIFICATIONS								
AC Terminals	L1, L2, N terminal blocks, PE busbar for inverter connection							
DC Terminals	4 x terminal block pairs for PV or battery input, Quick Connector ⁽⁶⁾							
AC Output Conduit Size / AWG Range	1" maximum / 12 – 4 AWG							
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 12 – 6 AWG							
Dimensions (H x W x D)	14.2 x 26.3 x 8.8 / 360 x 668 x 223							in / mm
Weight	70 / 32							lb / kg
Noise	< 50							dBA
Cooling	Natural convection							
Storage and Transport Temperature Range	-40 to +158 / -40.0 to 70.0							°F / °C
Operating Temperature Range	-40 to +140 / -40.0 to 60.0							°F / °C
Protection Rating	Type 4X							in / mm
Maximum Altitude	9840 / 3000							ft / m

(5) In up to 4 Battery Stacks. 12 Battery Blocks in up to 3 Battery Stacks will be supported by Q3 2026. A 4th Battery Stack is pending firmware release.

(6) Pending firmware update.

(7) With a minimum of 8 Battery Blocks and a minimum of 2 Battery Stacks.

(8) With a minimum of 5 Battery Blocks and a minimum of 2 Battery Stacks.

(9) Up to 86 °F / 30 °C.



SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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