SolarEdge Nexis Inverter

For North America

NX3800T-US / NX5700T-US / NX7600T-US / NX9600T-US /NX10000T-US / NX11500T-US / NX13000T-US

Preliminary Datasheet(1)

Designed for simplicity, for storage and backup applications

Made in the USA from imported parts

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Powerful

- DC-Optimized technology, record-breaking 99% weighted efficiency
- Install larger systems while avoiding Main Panel Upgrades (MPUs) – embedded Power Control Systems (PCS)
- Up to 14.5kW whole-home backup with 185A LRA – powers a 5-ton HVAC and essential loads
- Optimize energy usage while maximizing savings with SolarEdge ONE

Flexible

- Single SKU for all power classes and applications (PV only, Storage, Backup)
- DC & AC* battery coupling with SolarEdge Nexis Battery System
- Module-level monitoring, revenue-grade production and consumption data
- Streamlined installations with more workspace, built-in folding antennas, and Simple Click™ no-wire connection to the SolarEdge Nexis Battery System

Durable

- Highly resistant to extreme temperatures, including direct sunlight
- Reinforced metal enclosure
- Enhanced safety with NextGen Sense Connect, SafeDC™, AFCI, and Rapid Shutdown
- Proactive Cybersecurity safeguards systems and data

Eligible for domestic content % towards the enhanced federal income tax credit**

* Pending firmware update.
** For more information on domestic content eligibility, see the SolarEdge Domestic Content application note.

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For North America

Preliminary Specifications(1)

Applicable to inverters with part number:	UNX13000T-US00UCYN4							
Model Number	**NX3800T-US**	**NX5700T-US**	**NX7600T-US**	**NX9600T-US**	**NX10000T-US**	**NX11500T-US**	**NX13000T-US**	
OUTPUT – AC ON GRID								
Maximum AC Power Output	3840 @ 240V 3330 @ 208V	5760 @ 240V 4990 @ 208V	7680 @ 240V 6650 @ 208V	9600 @ 240V 8320 @ 208V	10,000 @ 240V 8600 @ 208V	11,520 @ 240V 9980 @ 208V	13,000 @ 240V 11,200 @ 208V	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
GFDI Threshold	1							A
Total Harmonic Distortion (THD)	<3							%
Power Factor	1, adjustable from -0.85 to 0.85							
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							
Charge Battery from AC (if allowed)	Yes							
Typical Nighttime Power Consumption	< 2.5							W
OUTPUT – AC STANDALONE (BACKUP)								
Rated AC Power in Standalone Operation	14,500(2)							W
Maximum Phase Imbalance Power in Standalone Operation	5750							W
Maximum Continuous Output Current in Standalone Operation	60.5							A
Locked Rotor Amperage (LRA) Rating	185							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
GFDI	1							A
THD	<5							%
INPUT – DC (PV AND BATTERY)								
Transformer-less, Ungrounded	Yes							
Maximum Input Voltage	480							Vdc
Nominal DC Input Voltage	400							Vdc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600kΩ Sensitivity							
2-Pole Disconnection	Yes							
Number of Ports	4 for PV / Batteries							
Maximum Current per Port	60							Adc

(1) The specifications and information presented in this preliminary datasheet are subject to extended validation and change. This preliminary datasheet specifies features but cannot promise to deliver any specific characteristics. No warranty, implied or explicit, is given regarding delivery, accuracy, fitness or performance. SolarEdge reserves the right to modify its technical information and product specifications at any time without notice.

(2) Up to 86˚F / 30 ˚C.

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Preliminary Specifications[1]

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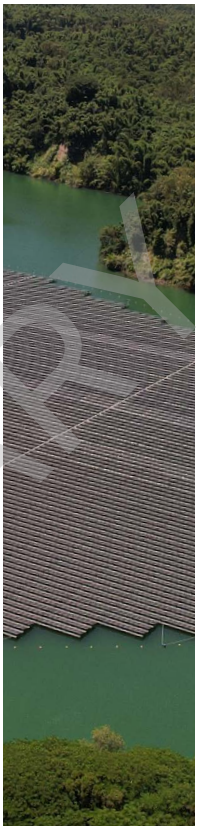
Model Number	NX3800T-US	NX5700T-US	NX7600T-US	NX9600T-US	NX10000T-US	NX11500T-US	NX13000T-US	
DC CONNECTION – PV								
Maximum Input Power	7680 @ 240V 6400 @ 208V	11,520 @ 240V 9800 @ 208V	15,360 @ 240V 13,000 @ 208V	19,200 @ 240V 16,600 @ 208V	20,000 @ 240V 17,200 @ 208V	23,040 @ 240V 20,000 @ 208V	23,040 @ 240V 20,000 @ 208V	W
Maximum Input Current	20 @ 240V 16.5 @ 208V	30 @ 240V 25 @ 208V	40 @ 240V 33.5 @ 208V	50 @ 240V 42.5 @ 208V	52 @ 240V 44 @ 208V	60 @ 240V 51.5 @ 208V	60 @ 240V 51.5 @ 208V	Adc
Supported Power Optimizers	SolarEdge S-Series and P-Series							
DC CONNECTION – BATTERY								
Supported Battery Types	SolarEdge Nexis Battery System							
Maximum Number of Batteries per Inverter	Up to 16 Battery Blocks per Inverter (in up to 4 Battery Stacks)[3]							
Maximum Charge Power	24,000[3][4]							W
Maximum Discharge Power	14,500[3][5]							W
2-pole Disconnection	Up to the inverter's rated standalone power							
Battery Communication	Wireless SolarEdge Home Network[3]; Wired CAN							
SMART ENERGY CAPABILITIES								
Consumption Metering	Built-in							
Standalone and Battery Storage	With SolarEdge Nexis Collar (purchased separately) for service up to 200A; up to 3 inverters[3]							
ADDITIONAL FEATURES								
Supported Communication Interfaces	RS485; Ethernet; Cellular (optional); Wi-Fi (optional); Wireless SolarEdge Home Network (optional)[3]; Wired CAN							
Revenue Grade Metering, ANSI C12.20	Built-in							
Integrated AC, DC, and Communication Connection Unit	Yes							
Inverter Commissioning	With the SetApp 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[3]							
STANDARD COMPLIANCE								
Safety	UL 1741; UL 1741SA; 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 and IEEE 1547.1 Rule 21, Rule 14H							
Emissions	FCC Part 15 Class B							
Power Control System (PCS)	UL 1741 (11); UL 3141[3]							
Rapid Shutdown (RSD)	NEC 690.11, NEC 690.12							
INSTALLATION SPECIFICATIONS								
AC Terminals	L1; L2; N; PE terminal blocks							
DC Terminals	4 x terminal block pairs for PV or battery input; Quick Connector[3]							
AC Output Conduit Size / AWG Range	1'' maximum / 12 – 4 AWG							
DC Input (PV and Battery) Conduit Size / AWG Range	1'' maximum / 10 – 6 AWG							
Dimensions (H x W x D)	14.2 x 26.3 x 9.3 / 360 x 668 x 236							in / mm
Weight	70 / 32							lb / kg
Noise	< 50							dBA
Cooling	Natural convection							
Operating Temperature Range	-40 to +140 / -40.0 to 60.0							°F / °C
Storage and Transportation Temperature Range	-40 to +158 / -40.0 to 70.0							°F / °C
Protection Rating	Type 4X							In / mm
Maximum Altitude	9840 / 3000							ft / m

(3) Pending firmware update.
(4) Requires more than 8 Battery Blocks (in more than 2 Battery Stacks).
(5) Requires more than 5 Battery Blocks (in more than 2 Battery Stacks).



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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Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

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