SolarEdge Residential Product Portfolio

SolarEdge Nexis Inverter 3ph for Europe

Our most powerful inverter yet, delivering exceptional performance, easy installation, and leading safety

NX8K	NX15K
NX10K	NX17K
NX13K	NX20K



SolarEdge Nexis Inverter 3ph

NX8K / NX10K / NX13K / NX15K / NX17K / NX20K

Applicable to inverters with part number	NX20K-RW000CYN4[1]						
Model	NX8K	NX10K	NX13K	NX15K	NX17K	NX20K	Units
AC OUTPUT – LOADS / GRID							
Rated AC Power Output	8,000	10,000	12,990	15,000	17,000	20,000	VA
Maximum AC Power Output per Phase	2,667	3,333	4,330	5,000	5,667	6,667	VA
AC Output Voltage – Line to Line (Nominal)	380 / 400 / 480						Vac
AC Output Voltage – Line to Neutral (Nominal)	220 / 230 / 277						Vac
AC Output Voltage – Line to Neutral (Range)	184 – 305						Vac
AC Frequency	50 / 60 ± 5						Hz
Maximum Continuous Output Current per Phase	12.3	15.4	20.0	24.0	25.6	29.0	Aac
Power Factor Range (Cos Phi)	± 0.1 to 1						
Residual Current Detector / Residual Current Step Detector	300 / 30						mA
Maximum Short Circuit Current per Phase	14.8	18.5	24	29	31	35	Aac
Grids Supported – Three Phase	3 / N / PE (WYE with Neutral), TT, TNS, TN-C-S						
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes						
Overvoltage Category	III						
AC OUTPUT – BACKUP POWER (OFF GRID)							
Maximum AC Power Output (230V / 400V)	20,000						VA
Maximum AC Power Output (277V / 480V)	24,000						VA
Maximum AC Power Output per Phase (230V)	6,667						VA
AC Output Voltage – Line to Line / Line to Neutral (Nominal)	380 / 220, 400 / 230, 480 / 277						Vac
AC Output Voltage – Line to Neutral (Range)	184 – 305						Vac
AC Frequency	51.5						Hz
Maximum Continuous Output Current per Phase	29.0						A
Residual Current Detector / Residual Current Step Detector	300 / 30						mA
Grids Supported – Three Phase	3 / N / PE (WYE with Neutral), TT, TNS, TN-C-S						
Off Grid Switchover Time	≤ 50						ms
Automatic Backup Transition Time with Backup Unit Interface	≤ 3						s
PV INPUT							
Maximum DC Power (Module STC)	16,000	20,000	26,000	30,000	34,000	40,000	W
Transformerless, Ungrounded	Yes						
DC Input Voltage Range	715 – 950						Vdc
Nominal DC Input Voltage	750						Vdc
Maximum Input Current per Inverter / DC Port	22.4 / 40	28 / 40	36.3 / 40	41.9 / 40	47.5 / 40	55.9 / 40	Adc
Reverse-Polarity Protection	Yes						
DC-SPD	Integrated, Type 2 according to IEC/EN 61643-31, fault indicator via SolarEdge Alert System						
Ground-Fault Isolation Detection	167 kΩ Sensitivity						
Maximum Inverter Efficiency	99.0	99.0	99.0	99.0	99.0	99.0	%
European Weighted Efficiency	98.4	98.6	98.6	98.65	98.7	98.75	%
Overvoltage Category	II						
BATTERY INPUT							
Supported Battery Types	SolarEdge Nexis Battery						
Maximum Number of Battery Stacks per Inverter	4 (maximum 4 Battery Blocks per Battery Stack = maximum 16 Battery Blocks)[2]						
Maximum Charge Power	28,000						W
Maximum Discharge Power Ongrid / Offgrid	8,000 / 20,000	10,000 / 20,000	12,990 / 20,000	15,000 / 20,000	17,000 / 20,000	20,000 / 20,000	W
DC Input Voltage Range	715 – 950						Vdc
Nominal Voltage	750						Vdc
Maximum Continuous Current per DC Port	40						Adc
Battery Communication	CAN						

(1) Models are covered by a single part number. Definition of the power rating and final model is done during commissioning.
(2) Pending compatible firmware release expected in H2 2026.

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POWER OPTIMIZER COMPATIBILITY							
Supported Power Optimizers	SolarEdge S-Series and P-Series (1:1 Power Optimizers only)						
Maximum Number of Power Optimizers per String	33						
Supported Meters	SE_MTR-3Y-400V-B (firmware version 0.79 or higher) MTR-240-3PC1-D-A-MW (firmware version 1.0.105 or higher; only wired communication until 10/26) BI-EU3P internal meter (firmware version 1.062 or higher)						
ADDITIONAL FEATURES							
Supported Communication Interfaces	Built-in: 1 x RS485 Modbus, 1 x RS485/CAN adjustable, 1 x CAN, LAN, Wi-Fi, SolarEdge Home Network[3], Optional: Cellular LTE						
Warranty	10 Years[4]						
STANDARD COMPLIANCE							
Safety	IEC 62109						
Arc Fault Detection (AFCI)	IEC 63027: Photovoltaic power systems – DC arc detection and interruption						
Grid Connection Standards[5]	Available: VDE-AR-N 4105:2018-11, TOR Stromerzeugungsanlagen Typ A Version 1.3, NA/EEA-NE7 - CH 2020, EN 50549-1, Synergrid C10/11, Will be supported during 2026: CEI 0-21, CEI 0-16, G98 Type A, G99 Type A, UNE 217002:2020, MSA EN 50549-1						
Emissions	EN 55011, IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3, IEC 61000-3-11, IEC 61000-3-12						
Radio	ETSI EN 301-489, ETSI 300-328, ETSI EN 300-220[3], ETSI EN 301-908-1 / 13						
RoHS	Yes						
INSTALLATION SPECIFICATIONS							
DC Input	5 x MC4 ports for PV and BAT						
Dimensions (W x H x D)	488 x 428 x 200						mm
Weight	30.6						kg
Operating Temperature Range	-40 to +60						˚C
Cooling	Convection cooling, no external fans						
Noise	< 40						dBA
Mounting	Wall bracket provided						
Protection Rating	IP65 – outdoor and indoor						
Humidity	0 – 95						%
Maximum Altitude	2,000						m
Pollution Degree	PD2						

(3) Disabled in Israel.
(4) Warranty extension is available at an additional cost.
(5) For all standards refer to the Knowledge Center.






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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