SolarEdge Residential Product Portfolio

SolarEdge Nexis Battery

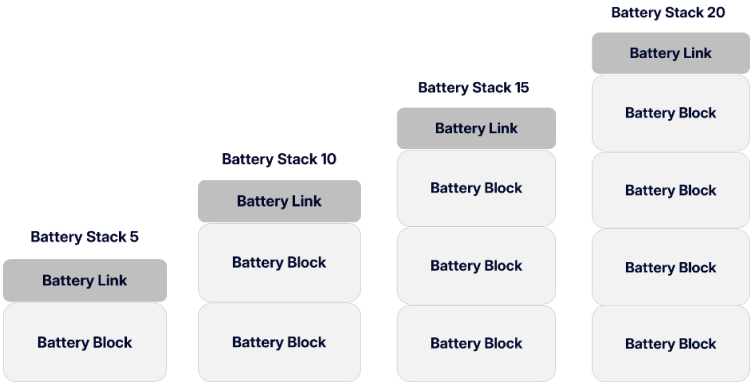
For Europe

Our incredibly powerful & scalable battery that delivers enhanced safety and fits both 1ph and 3ph systems.



SolarEdge Nexis Battery

For Europe



Number of Battery Blocks per Stack[1]		1	2	3	4	Units
ELECTRICAL SPECIFICATIONS						
Nominal Energy (Model NX-BLCK-5K-NB)		5	10	15	20	kWh
Nominal Energy (Model NX-BLCK-5K)		4.9	9.8	14.7	19.6	kWh
Usable Energy		4.65	9.3	13.95	18.6	kWh
Maximum Continuous Charge / Discharge Power	370V – 480V (Single Phase)	3.5	7	10.5	13	kW
	715V – 950V (Three Phase)	3.5	7	10.5	14	kW
Peak Discharge Power (for 10 seconds)		5.3	10.5	14.5	14.5	kW
Operational DC Voltage Range		370 – 950				Vdc
Nominal DC Voltage (Single Phase / Three Phase)		450 / 750				Vdc
Maximum Input / Output Current	370V – 480V (Single Phase)	9.5	19	28.5	35	Adc
	715V – 950V (Three Phase)	5	10	15	20	Adc
Peak DC Roundtrip Efficiency		91[2]				%
Battery Stack Interface		Each Battery Stack must include a Battery Link				
Battery Block Type		LiFePo4				
Communication Interface to Inverter		Wired CAN				
INVERTER COMPATIBILITY						
SolarEdge Nexis Inverter 1ph		Up to 4 Battery Blocks per Battery Stack Up to 16 Battery Blocks per inverter (in up to 4 Battery Stacks)[1][3]				
SolarEdge Nexis Inverter 3ph						
ADDITIONAL FEATURES						
Battery Optimizer		Each Battery Block includes an independent power module, maximizing backup operation and efficiency				
Simple-Click™		Mechanical self-locking connection and electric connection for an effortless and secure installation of: • Battery Block to Battery Block • Battery Block to Battery Link • Battery Link to inverter (only with SolarEdge Nexis Inverter 1ph)				
ThermoShield™ Technology		Designed to prevent cell-to-cell thermal runaway propagation				
MECHANICAL SPECIFICATIONS						
Mounting		Floor or wall mount[4]				
Installation Area		Indoor or outdoor, including in direct sunlight[5]				
Ambient Operating Temperature Range		-20 to +55				˚C
Storage Temperature Range (up to 12 months)[6]		0 to +35				˚C
Maximum Altitude		3000				m
Enclosure Protection		IP65				
Flood Resistance		37cm of water for up to 72 hours				
Cooling		Forced air and natural cooling				
Noise (at 1m distance)	Nominal Operation	< 40				dBA
	Extreme Conditions	< 50				dBA
Dimensions	Battery Link (W x D x H)	668 x 194 x 165				mm
	Battery Block (W x D x H)	668 x 194 x 374				mm
	Total Battery Height	539	913	1287	1661	mm
Weight	Battery Link	15.8				kg
	Battery Block	55				kg

(1) Each SolarEdge Nexis Battery Stack is a combination of a SolarEdge Nexis Battery Link and 1-4 SolarEdge Nexis Battery Blocks.
(2) Measured at a cell temperature of 35˚C while fans are off.
(3) Up to 12 Battery Blocks per inverter (in up to 3 Battery Stacks) will be supported by July 2026. A 4th Battery Stack is pending firmware release.
(4) Wall mounting requires an additional mounting bracket (sold separately) and is subject to local regulations. Only one SolarEdge Nexis Wall Mount Bracket is required per Battery Stack. For details, see the SolarEdge Nexis Wall Mount Bracket Product Guide.
(5) When installed in direct sunlight, the Maximum Ambient Operating Temperature is 45˚C.
(6) Refer to the official SolarEdge transportation and storage guidelines.

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		Units
STANDARD COMPLIANCE		
Cell	UL 1642, IEC 62619, UN38.3	
SolarEdge Nexis Battery	UL 1973, UL 9540, UN38.3, IEC 62619, UL 9540A, IEC 62477-1	
Emissions	FCC Part 15 Class B	
Battery Regulation EU	(EU) 2023/1542	
Insulation	Class I	
Warranty(7)	10 years	
Expected Service Life(8)	15 years	

(7) For warranty details, see the SolarEdge Nexis Battery Limited Product Warranty.
(8) Based on the nominal use case of one cycle/day at 0.25 C charging and 0.1 C discharging in German climate conditions.

Ordering Information

Product	Model Name	P/N
SolarEdge Nexis Battery Link	NX-LNK	NX-LNK-4B-A-01
SolarEdge Nexis Battery Block(9)	NX-BLCK-5K-NB	NX-BLCK-5K-A-02, UNX-BLCK-5K-A-02
	NX-BLCK-5K	NX-BLCK-5K-A-01, UNX-BLCK-5K-A-01, UNX-BLCK-5K-A-03
SolarEdge Nexis Wall Mount Bracket		IAC-NX-BLCKWMB-01

(9) NX-BLCK-5K and NX-BLCK-5K-NB differ only in their Nominal Energy (4.9 kWh vs 5.0 kWh). Their Usable Energy and all other parameters are identical. They are fully compatible with each other.



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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