



SolarEdge Nexus Battery System

For North America

Preliminary Datasheet⁽¹⁾

Incredibly powerful and durable battery system, designed to fit any home

solaredge

Powerful

Up to 13 kW continuous power with a single Battery Stack

Up to 93% roundtrip system efficiency based on DC-coupled technology

Able to start big HVAC systems with 185A LRA rating

Storage solution for Home Backup, PV Self Consumption, and Time of Use optimization, with SolarEdge ONE

Flexible

Modular "lego brick alike" Battery Blocks, designed to fit any installation

Scalable Battery System from 4.9 kWh to 19.6 kWh per Battery Stack, and 78.4 kWh per inverter*

Supports both DC-Coupled and AC-Coupled* configurations

Streamlined installation: less than 10 minutes to assemble a Battery Stack with cable-free Simple Click™ architecture

Durable

Designed for extreme conditions: from - 4°F to +131°F, NEMA 4X, and flood resistance

ThermoShield™ technology: designed to prevent cell-to-cell thermal runaway propagation

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

* Pending firmware update.

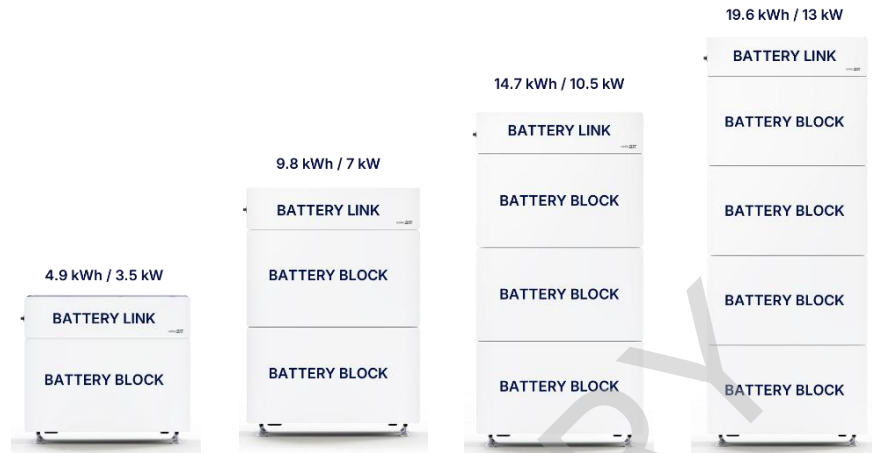
** For more information on domestic content eligibility, see the SolarEdge [Domestic Content application note](#).



SolarEdge Nexis Battery System

For North America

Preliminary Specifications⁽¹⁾



Number of Battery Blocks ⁽¹⁾	1	2	3	4	Units
ELECTRICAL SPECIFICATIONS					
Nominal Energy	4.9	9.8	14.7	19.6	kWh
Usable Energy	4.65	9.3	13.95	18.6	kWh
Maximum Charge / Discharge Power	3.5	7	10.5	13	kW
Operational DC Voltage Range	370 – 480				Vdc
Maximum Input / Output Current	9.7	19.4	29.2	35	A
Load Start Capability	62	124	185	185	LRA
Peak DC Roundtrip Efficiency	93				%
Battery Stack Interface	Each Battery Stack must include a Battery Link				
Battery Block Type	LiFePo4				
Communication Interface to Inverter	Wireless SolarEdge Home Network ⁽²⁾ or Wired CAN				
INVERTER COMPATIBILITY					
SolarEdge Nexis Inverter	<ul style="list-style-type: none">Up to 4 Battery Blocks per single Battery StackUp to 16 Battery Blocks per Inverter (in up to 4 Battery Stacks)⁽²⁾				
ADDITIONAL FEATURES					
Battery System Optimizer	Each Battery Block includes an independent power module, maximizing backup hours and efficiency				
Simple-Click™	Mechanical self-locking connection and electric connection for the effortless and secure installation of:				
	<ul style="list-style-type: none">Battery Block to Battery BlockBattery Block to Battery LinkBattery Link to SolarEdge Nexis Inverter				
ThermoShield™	Include cell level thermal protection that prevents cell-to-cell thermal runaway propagation				
STANDARD COMPLIANCE					
Cell	UL 1642; IEC 62619; UN38.3				
Battery System	UL 1973; UL 9540; N38.3; IEC 62619; UL 9540A; VDE-2510-50; IEC 62109-1; IEC 62477-1				
Emissions	FCC Part 15 Class B				
Insulation	Class I				
Warranty	10 Years				

(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) Pending firmware release.

SolarEdge Nexis Battery System

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Preliminary Specifications⁽¹⁾

Number of Battery Blocks ⁽¹⁾		1	2	3	4	Units
MECHANICAL SPECIFICATIONS						
Battery Stack Connection		Simple-Click™ and 1" Conduit entry				
Mounting		Floor or wall mount ⁽³⁾				
Installation Area		Indoor or outdoor, including in direct sunlight ⁽⁴⁾				
Ambient Operating Temperature Range		-4 to +131 / -20 to +55				°F / °C
Storage Temperature Range (up to 12 months) ⁽⁵⁾		+32 to +95 / 0 to +35				°F / °C
Maximum Altitude		9842 / 3000				ft / m
Enclosure Protection		IP65 / NEMA 4X				
Cooling		Forced air and natural cooling				
Noise (at 1 m distance)	Nominal Operation	< 40				dBA
	Extreme Conditions	< 50				
Dimensions	Battery Link (H x W D)	6.5 x 26.3 x 7.64 / 165 x 668 x 195				in / mm
	Battery Block (H x W x D)	14.7 x 26.3 x 7.64 / 374 x 668 x 195				
	Total Height	21.2 / 539	35.9 / 913	50.6 / 1287	65.3 / 1661	
Weight	Battery Link	33.1 / 15				lb / kg
	Battery Block	121.3 / 55				
	Total Weight	154 / 70	276 / 125	397 / 180	518 / 235	

(3) Wall mounting requires an additional mounting bracket (sold separately).

(4) When installed in direct sunlight, the Maximum Ambient Operating Temperature is 113°F / 45°C.

(5) Refer to the official SolarEdge transportation and storage guidelines.

Ordering Information

Product	Model Name	P/N
SolarEdge Nexis Battery Link	NX-LNK	NX-LNK-4B-A-01
SolarEdge Nexis Battery Block – Non-Domestic Content	NX-BLCK-5K	NX-BLCK-5K-A-01
SolarEdge Nexis Battery Block – Domestic Content	NX-BLCK-5K	UNX-BLCK-5K-A-01
SolarEdge Nexis Wall Mount Bracket		IAC-NX-MDLWMB-01



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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