Certificate of compliance

Applicant:	**SolarEdge Technologies Ltd.** **1 HaMada Street** **Herzliya 4673335** **Israel**
Product:	**Battery inverter with PV input with off-grid functionality**
Models:	**NX8K; NX10K; NX12.5K; NX13K; NX15K; NX16K; NX17K; NX20K**

The certificate refers to the stated model(s) which passed the tests according to the applicable standard(s):

Applied rules and standards:

IEC 62109-1:2010, EN 62109-1:2010, DIN EN 62109-1:2011
Safety of power converters for use in photovoltaic power systems – Part 1: General requirements

IEC 62109-2:2011, EN 62109-2:2011, DIN EN 62109-2:2012
Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters

At the time of issue of this certificate, the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Report number:	**24TH0306-IEC62109-1_0** **24TH0306-IEC62109-2_0**	**Certification Program:**	**NSOP-0038-DEU-ZE-V02**
Certificate number:	**U25-0546**	**Date of issue:**	**2025-06-25**

Certification body

Domenik Koll
Head of Energy Systems Germany

Accreditation

DAkkS Deutsche Akkreditierungsstelle D-ZE-12024-01-00

Type Approval and declaration of compliance with the requirements of IEC 62109-1:2010, EN 62109-1:2010, DIN EN 62109-1:2011 and IEC 62109-2:2011, EN 62109-2:2011, DIN EN 62109-2:2012	
Manufacturer / applicant	SolarEdge Technologies Ltd. 1 HaMada Street Herzliya 4673335 Israel
Product type	Battery inverter with PV input with off-grid functionality

Static converter model	NX8K	NX10K	NX12.5K	NX13K
Input (PV DC)				
MPP voltage range [V]	--	--	--	--
Max. input voltage [V]	950	950	950	950
Max. input current per MPPT [A]	23,5	29,3	36,7	38,1
Input (DC battery)				
DC voltage range [V]	715 - 950	715 - 950	715 - 950	715 - 950
Max. DC voltage [V]	950	950	950	950
Max. DC current per DC input [A]	23,5	35	35	35
Output (AC)				
Rated AC voltage [V]	380/400/480	380/400/480	380/400/480	380/400/480
Rated output current [A]	11,6	14,5	18,1	18,8
Max. output current [A]	12,8	16,0	20,0	20,0
Nom. converter output (P_{NINV}) [kW]	8,0	10,0	12,5	12,99
Rated apparent power [kVA]	8,0	10,0	12,5	12,99
In on-grid battery mode				
P_{sn} (nom. discharge power) [kW]	8,0	10,0	12,5	12,99
P_{cn} (nom. charging power) [kW]	8,0	10,0	12,5	12,99
P_{smax} (max. discharge power) [kW]	8,0	10,0	12,5	12,99
P_{cmax} (max. charging power) [kW]	56,0	56,0	56,0	56,0
Type	Bidirectional	Bidirectional	Bidirectional	Bidirectional
In off-grid battery mode				
P_{sn} (nom. discharge power) [kW]	8,0	10,0	12,5	12,99
P_{smax} (max. discharge power) [kW]	8,0	10,0	12,5	12,99

Static converter model	NX15K	NX16K	NX17K	NX20K
Input (PV DC)				
MPP voltage range [V]	--	--	--	--
Max. input voltage [V]	950	950	950	950
Max. input current per MPPT [A]	44,0	46,9	49,9	58,7
Input (DC battery)				
DC voltage range [V]	715 - 950	715 - 950	715 - 950	715 - 950
Max. DC voltage [V]	950	950	950	950
Max. DC current per DC input [A]	35	35	35	35
Output (AC)				

Rated AC voltage [V]	380/400/480	380/400/480	380/400/480	380/400/480
Rated output current [A]	21,7	23,2	24,6	29,0
Max. output current [A]	24,0	25,6	25,6	32,0
Nom. converter output (P_{NINV}) [kW]	15,0	16,0	17,0	20,0
Rated apparent power [kVA]	15,0	16,0	17,0	20,0
In on-grid battery mode				
P_{sn} (nom. discharge power) [kW]	15,0	16,0	17,0	20,0
P_{cn} (nom. charging power) [kW]	15,0	16,0	17,0	20,0
P_{smax} (max. discharge power) [kW]	15,0	16,0	17,0	20,0
P_{cmax} (max. charging power) [kW]	56,0	56,0	56,0	56,0
Type	Bidirectional	Bidirectional	Bidirectional	Bidirectional
In off-grid battery mode				
P_{sn} (nom. discharge power) [kW]	15,0	16,0	17,0	20,0
P_{smax} (max. discharge power) [kW]	15,0	16,0	17,0	20,0
Firmware version	Power: v. 1.3; Manager: v. 2.3			

Batteries that can be used with the above static converter				
Brand	SolarEdge Home Nexis Battery	--	--	--
Technology	LFP	--	--	--
Model	NX-BLCK-5K, NX-LNK	--	--	--
CUS module (kWh)	4,65 / 9,3 / 13,95 / 18,6	--	--	--
Firmware version of the BMS	6.24	--	--	--
Number of modules	1 – 16	--	--	--

Note:

Batteries are not integrated into the inverter and must be installed according to local regulations.

Description of the structure of the power generation unit:

The power generation unit is equipped with a DC and line-side EMC filter. The power generation unit has no galvanic isolation between DC input and AC output. Output switch-off is performed with single-fault tolerance based on the inverter bridge and two series-connected relays in each line and neutral. This enables a safe disconnection of the power generation unit from the network in case of error.