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# Certificate of compliance

**Applicant:** SolarEdge Technologies Ltd.  
1 HaMada Street  
Herzliya 4673335  
Israel

**Product:** Photovoltaic inverter

**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 63027:2023  
Photovoltaic power systems – DC arc detection and interruption

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-IEC63027\_0

**Certificate number:** P25-0958

**Date of issue:**

2025-10-21



Domenik Koll  
Head of Energy Systems Germany

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**Annex certificate of conformity No. P25-0958  
Extract from test report 24TH0306-IEC63027\_0**

<b>Type Approval and declaration of compliance with the requirements of IEC 63027:2023</b>				
<b>Manufacturer / applicant</b>	SolarEdge Technologies Ltd. 1 HaMada Street Herzliya 4673335 Israel			
<b>Product type</b>	Photovoltaic inverter			
<b>Static converter model</b>	NX8K	NX10K	NX12.5K	NX13K
<b>Input (PV)</b>				
MPP voltage range [V]	--	--	--	--
Max. input voltage [V]	950	950	950	950
Max. input current per MPPT [A]	22,4	28,0	35,0	36,3
<b>Input DC (battery)</b>				
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]	22,4	28,0	35,0	36,3
<b>Output AC</b>				
Rated AC voltage [V]	380/400/480	380/400/480	380/400/480	380/400/480
Rated output current [A]	12,3	15,4	19,2	20,0
Max. output current [A]	12,3	15,4	19,2	20,0
Nom. converter output (P <sub>NINV</sub> ) [kW]	8,0	10,0	12,5	12,99
Rated apparent power [kVA]	8,0	10,0	12,5	12,99
<b>In on-grid battery mode AC</b>				
P <sub>sn</sub> (nom. discharge power) [kW]	8,0	10,0	12,5	12,99
P <sub>cn</sub> (nom. charging power) [kW]	8,0	10,0	12,5	12,99
P <sub>smax</sub> (max. discharge power) [kW]	8,0	10,0	12,5	12,99
P <sub>cmx</sub> (max. charging power) [kW]	8,0	10,0	12,5	12,99
Type	Bidirectional	Bidirectional	Bidirectional	Bidirectional
<b>In off-grid battery mode</b>				
P <sub>sn</sub> (nom. discharge power) [kW]	20,0	20,0	20,0	20,0
P <sub>smax</sub> (max. discharge power) [kW]	20,0	20,0	20,0	20,0
<b>Static converter model</b>	NX15K	NX16K	NX17K	NX20K
<b>Input (PV)</b>				
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
<b>Input DC (battery)</b>				
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]	40	40	40	40
<b>Output AC</b>				



Rated AC voltage [V]	380/400/480	380/400/480	380/400/480	380/400/480
Rated output current [A]	24,0	24,1	25,6	29,0
Max. output current [A]	24,0	24,1	25,6	29,0
Nom. converter output (P <sub>NINV</sub> ) [kW]	15,0	16,0	17,0	20,0
Rated apparent power [kVA]	15,0	16,0	17,0	20,0
<b>In on-grid battery mode AC</b>				
P <sub>sn</sub> (nom. discharge power) [kW]	15,0	16,0	17,0	20,0
P <sub>cn</sub> (nom. charging power) [kW]	15,0	16,0	17,0	20,0
P <sub>smax</sub> (max. discharge power) [kW]	15,0	16,0	17,0	20,0
P <sub>cmx</sub> (max. charging power) [kW]	15,0	16,0	17,0	20,0
Type	Bidirectional	Bidirectional	Bidirectional	Bidirectional
<b>In off-grid battery mode</b>				
P <sub>sn</sub> (nom. discharge power) [kW]	20,0	20,0	20,0	20,0
P <sub>smax</sub> (max. discharge power) [kW]	20,0	20,0	20,0	20,0
<b>Firmware version</b>				
	Power: 1.3; Manager: 2.3			
<b>Batteries that can be used with the above static converter</b>				
Brand	SolarEdge Home Nexis Battery	--	--	--
Technology	LFP	--	--	--
Model	NX-BLCK-5K, NX- LNK	--	--	--
CUS blocks (kWh)	4,65 / 9,3 / 13,95 / 18,6	--	--	--
Firmware version of the BMS	6.24	--	--	--
Number of modules	1 – 16	--	--	--
<b>Note</b>				
Batteries are not integrated into the inverter and must be installed according to local regulations. The system is built up with up to 4 batteries (maximum 4 blocks per batter = max. 16 blocks)				
<b>Description of the structure of the power generation unit:</b>				
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.				