

Certificate of compliance

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

Product: Grid-tied photovoltaic inverter

Models: SE40K
SE33.3K
SE30K
SE27.6K
SE25K
SE20.1K
SE20K

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: 19TH0534-IEC62109-1_17
19TH0534-IEC62109-2_10

Certification Program:

NSOP-0038-DEU-ZE-V02

Certificate number: U25-0207

Date of issue:

2025-03-05

Certification body

Accreditation



Accredited certification body by Deutsche Akkreditierungsstelle GmbH (DAkks) according to ISO/IEC 17065. The accreditation is valid only for the scope listed in the annex of the accreditation certificate D-ZE-12024-01-00. The Deutsche Akkreditierungsstelle GmbH (DAkks) is signatory of the multilateral arrangements of EA, ILAC and IAF for mutual recognition.

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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	Grid-tied photovoltaic inverter			
Ratings:	SE40K	SE33.3K	SE30K	
Input DC voltage range [V]:	680 – 1000			
Input DC current [A]:	48,25	40,0	36,25	
Output AC voltage [V]:	480 / N / PE @ 50/60 Hz			
Output AC current [A]:	48,25	40,0	36,25	
Output power [VA]:	40000	33300	30000	
Ratings:	SE33.3K	SE30K	SE30K	
Input DC voltage range [V]:	680 – 1000			
Input DC current [A]:	48,25	48,25	48,25	
Output AC voltage [V]:	380 / 400 / N / PE @ 50/60 Hz			
Output AC current [A]:	48,25	48,25	48,25	
Output power [VA]:	33300	33300	33300	
Ratings:	SE27.6K	SE25K	SE20.1K	SE20K
Input DC voltage range [V]:	680 – 1000			
Input DC current [A]:	40	37	30,45	29
Output AC voltage [V]:	380 / 400 / N / PE @ 50/60 Hz			
Output AC current [A]:	40	38	30,45	29
Output power [VA]:	27600	25000	20100	20001
Ratings:	SE33.3K*	SE30K*	SE25K*	--
Input DC voltage range [V]:	680 – 1000	680 – 1000	680 – 1000	--
Input DC current [A]:	48,25	43,5	36,25	--
Output AC voltage [V]:	380 / 400 / N / PE @ 50/60 Hz	380 / 400 / N / PE @ 50/60 Hz	380 / 400 / N / PE @ 50/60 Hz	--
Output AC current [A]:	53,7	48,25	40	--
Output power [VA]:	33300	33300	25000	--
Information: At no point the DC+ (or DC-) to GND voltage exceeds 50% of the DC input rating range. The DC input range describes the potential between the DC poles (DC+ to DC-), however the maximum potential between the DC poles (DC+ and DC-) to GND is less than 50% of the specified range during normal and ground fault conditions. * These configurations apply to any unit that will be used inside a setup used for the VDE AR-N 4110 for medium voltage appliances.				
Firmware version	Main DSP software version: 1.20 Aux DSP software version: 2.20			

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.