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# Certificate of compliance

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

**Product:** Photovoltaic (PV) and battery inverter

**Model:** SE5K-RWB48  
SE7K-RWB48  
SE8K-RWB48  
SE10K-RWB48

Inverter for three-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

## Applicable Documents:

ESB Networks, Company Standard DTIS-230206-BRL: Conditions Governing the Connection and Operation of MicroGeneration:2021

## Applied rules and standards:

### EN 50549-1:2019, I.S. EN 50549-1:2019

Requirements for parallel connection of installations with distribution networks - Part 1: Connection to an LV distribution network - Production of installations up to and including Type B

- 4.4 Normal operating range
- 4.5 Immunity to disturbances
- 4.6 Active response to frequency deviation
- 4.7 Power response to voltage variations and voltage changes
- 4.8 EMC and power quality
- 4.9 Interface protection
- 4.10 Connection and starting to generate electrical power
- 4.11 Ceasing and reduction of active power on set point
- 4.13 Requirements regarding single fault tolerance of interface protection system and interface switch

### DIN V VDE V 0126-1-1:2006 (4.1 Functional safety)

Automatic disconnection device between a generator and the public low-voltage grid

### Commission Regulation (EU) 2016/631 of 14 April 2016

Establishing a network code on requirements for grid connection of generators (NC RFG).  
Type approval for generation units to use in Type A.

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:** 22TH0188-EN50549-1\_1

**Certification Program:** NSOP-0032-DEU-ZE-V01

**Certificate number:** U22-0257

**Date of issue:** 2023-03-21

**Certification body**

*Georg Loritz*  
Georg Loritz



Certification body Bureau Veritas Consumer Products Services Germany GmbH accreditation to DIN EN ISO/IEC 17065

Testing laboratory accredited according to DIN EN ISO/IEC 17025

A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH



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## Annex to the EN 50549-1 certificate of compliance No. U22-0257

### Appendix

Extract from test report according to EN 50549-1

No. 22TH0188-EN50549-1\_1

#### Type Approval and declaration of compliance with the requirements of EN 50549-1 and Commission Regulation (EU) 2016/631 of 14 April 2016

<b>Manufacturer / applicant</b>	SolarEdge Technologies Ltd. 1 HaMada Street Herzliya 4673335 Israel
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<b>Micro-generator Type</b>	Photovoltaic and battery inverter			
	SE5K-RWB48	SE7K-RWB48	SE8K-RWB48	SE10K-RWB48
<b>Input DC voltage range [V]</b>	750 – 900	750 – 900	750 – 900	750 – 900
<b>Input DC current [A]</b>	900	900	900	900
<b>Output AC voltage [V]</b>	13,3	16,0	17,3	20,0
<b>Rated AC current [A]</b>	220/230 L-N 380/400 L-L 50 / 60 Hz	220/230 L-N 380/400 L-L 50 / 60 Hz	220/230 L-N 380/400 L-L 50 / 60 Hz	220/230 L-N 380/400 L-L 50 / 60 Hz
<b>Max AC current [A]</b>	8,0	11,5	13,0	16,0
<b>Active Power [W]</b>	5000	7000	8000	10000
<b>Apparent power [VA]</b>	5000	7000	8000	10000
<b>Battery DC voltage range [V]</b>	40 - 62	40 - 62	40 - 62	40 - 62
<b>Battery charge current [A]</b>	130	130	130	130
<b>Battery discharge current [A]</b>	130	130	130	130

<b>Firmware version</b>	Main DSP software version is 1.20 Aux DSP software version is 2.20
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#### Description of the structure of the power generation unit:

The power generation unit is equipped with a PV 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.

#### Note:

The settings of the interface protection are password protected adjustable.

In case the above stated generators are used with an external protection device, the protection settings of the inverters are to be adjusted according to the manufacturer's declaration.

The above stated generators are tested according to the requirements in the EN 50549-1:2019 Commission Regulation (EU) 2016/631 of 14 April 2016. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements.