

Certificate of compliance

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

Product: 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 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: 19TH0534-IEC63027_1

Certificate number: P24-1124_1

Date of issue:

2024-12-11



Domenik Köll

Head of Energy Systems Germany

Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this certificate of conformity shall not be reproduced.

Type Approval and declaration of compliance with the requirements of IEC 63027:2023

Manufacturer / applicant	SolarEdge Technologies Ltd. 1 HaMada Street Herzliya 4673335 Israel			
Product type	Photovoltaic inverter			
Static converter model	SE40K	SE33.3K	SE30K	--
Input (PV)				
Voltage range [V]	680 – 1000	680 – 1000	680 – 1000	--
Max. input voltage [V]	1000	1000	1000	--
Max. DC input current [A]	48,25	40,0	36,25	--
Output (AC)				
Rated AC voltage [V]	480 / N / PE @ 50/60 Hz	480 / N / PE @ 50/60 Hz	480 / N / PE @ 50/60 Hz	--
Rated output current [A]	48,25	40,0	36,25	--
Max. output current [A]	48,25	40,0	36,25	--
Nom. converter output (P _{NINV}) [W]	40000	33300	30000	--
Rated apparent power [VA]	40000	33300	30000	--
Static PV converter model	SE33.3K	SE30K	SE30K	--
Input (PV)				
Voltage range [V]	680 – 1000	680 – 1000	680 – 1000	--
Max. input voltage [V]	1000	1000	1000	--
Max. DC input current [A]	48,25	43,5	43,5	--
Output (AC)				
Rated AC voltage [V]	380 / 400 / N / PE @ 50/60 Hz	380 / 400 / N / PE @ 50/60 Hz	380 / 400 / N / PE @ 50/60 Hz	--
Rated output current [A]	48,25	43,5	43,5	--
Max. output current [A]	48,25	43,5	43,5	--
Nom. converter output (P _{NINV}) [W]	33300	30000	29990	--
Rated apparent power [VA]	33300	30000	29990	--
Static converter model	SE27.6K	SE25K	SE20.1K	SE20K
Input (PV)				
Voltage range [V]	680 – 1000	680 – 1000	680 – 1000	680 – 1000
Max. input voltage [V]	1000	1000	1000	1000
Max. DC input current [A]	40	37	30,45	29
Output (AC)				
Rated AC voltage [V]	380 / 400 / N / PE @ 50/60 Hz	380 / 400 / N / PE @ 50/60 Hz	380 / 400 / N / PE @ 50/60 Hz	380 / 400 / N / PE @ 50/60 Hz
Rated output current [A]	40	38	30,45	29
Max. output current [A]	40	38	30,45	29



BUREAU
VERITAS

Annex certificate of conformity No. P24-1124_1
Extract from test report 19TH0534-IEC63027_1

Nom. converter output (P _{NINV}) [kW]	27600	25000	20100	20001
Rated apparent power [kVA]	27600	25000	20100	20001
Firmware version	Main DSP software version is 1.20			
	Aux DSP software version is 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.				