

Certificate of Conformity

No. ESY 082496 0050 Rev. 01

Holder of Certificate: **SolarEdge Technologies Ltd.**
1 Hamada Street
4673335 Herzeliya
ISRAEL

Product: **Converter**
(Energy Storage Inverter)

Model(s): **PCS050**


Parameters: See page 3

Applicable standards: EN 50549-1:2019/AC:2019
RfG:2016
NC RfG:2018
PTPIREE:2021

This Certificate of Conformity confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290243172402

Date, 2025-02-26



(Billy Qiu)

Certificate of Conformity

No. ESY 082496 0050 Rev. 01

Technical Certifier (Billy Qiu) appointed by Certification Body TÜV SÜD Product Service GmbH performed assessment of the products listed in this certification in the place: Ridlerstraße 65, 80339 Munich, Germany.

Test requirement	<p>The certification complies with the requirements of the following documents and standards for Type A/B PGM installations:</p> <p>EN 50549-1:2019/AC:2019 Requirements for generating plants to be connected in parallel with distribution networks - Part 1: Connection to a LV distribution network - Generating plants up to and including Type B</p> <p>RfG:2016 Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for the connection of generating units to the Network (OJ EU L 112/1 of 27.4.2016)</p> <p>NC RfG:2018 General applicability requirements resulting from EU commission regulation 2016/631 of 14 April 2016 establishing a network code concerning the requirements for with regard to the connection of generating units to the grid (NC RfG-2018)- approved by the Decision of the President of the Energy Regulatory Office DRE.WOSE.7128.550.2.2018.ZJ dated 2 January 2019.</p> <p>PTPIREE:2021 Conditions and procedures for the use of certificates in the process of connecting modules generation modules to the power grid V1.2</p>
Type of certification programme	<p>1(a) according to EN ISO/IEC 17067 Based on Photovoltaics and Grid Integration Certification Program (Revision 6, Dated 5 Dec 2021) for Poland Grid Code</p>
Manufacturer & Address of manufacturing site	<p>SolarEdge Technologies Ltd. 1 Hamada Street 4673335 Herzeliya ISRAEL</p>
Software version	V000B000D001
Certificate expiry date	2030-02-24

Certificate of Conformity

No. ESY 082496 0050 Rev. 01

Parameters:

Model	PCS050
Battery input/output parameters	
Battery type	Lithium-ion
Maximum voltage [V _{DC}]	750
Battery rated voltage [V _{DC}]	512
Battery voltage range [V _{DC}]	350 ÷ 750
Maximum charge power [W]	50000
Maximum discharge power [W]	50000
Maximum charge current [A _{DC}]	50/50
Maximum discharge current [A _{DC}]	50/50
Grid terminal input parameters	
Rated input voltage [V _{AC}]	3P+N+PE, 230/400
Rated input frequency [Hz]	50
Maximum continuous input current [A _{AC}]	80
Maximum continuous input active power [W]	50000
Maximum continuous input apparent power [VA]	55000
Grid terminal output parameters	
Rated output voltage [V _{AC}]	3P+N+PE, 230/400
Rated output frequency [Hz]	50
Rated output current [A _{AC}]	72
Maximum continuous output current [A _{AC}]	80
Rated output active power [W]	50000
Maximum output active power [W]	50000
Maximum output apparent power [VA]	55000
Power factor range	0.9 inductive ÷ 0.9 capacitive

Certificate of Conformity

No. ESY 082496 0050 Rev. 01

Scope of assessment and results

Requirement	Clause of RfG:2016	Clause of NC RfG: 2018	Type A	Type B	Type C	Type D	Evaluation result
Frequency range	Article 13.1 (a)	Article 13.1 (a) (i)	Y	Y	N/A	N/A	Positive
Ability to withstand the rate of change of frequency (RoCoF) df/dt	Article 13.1 (b)	Article 13.1 (b)	Y	Y	N/A	N/A	Positive
Power generating module operating mode in which the generated active power decreases in response to an increase in system frequency above a specified value (LFSM-O)	Article 13.2(*)	Article 13.2 (a) (b) (f)	Y	Y	N/A	N/A	Positive
Maximum power capability reduction with falling frequency	Article 13.4 & 13.5	Article 13.4	Y	Y	N/A	N/A	Positive
Remote ceasing active power generation	Article 13.6	Article 13.6	Y	Y	N/A	N/A	Positive
Automatic connection to the network	Article 13.7 & 14.4	Article 13.7 & 14.4 (a)	Y	Y	N/A	N/A	Positive
Remote control of active power	Article 14.2	Article 14.2 (b)	N/A	Y	N/A	N/A	Positive
Automatic power control & Manual power control	Article 15.2 (a) (b)	Article 15.2 (a) (b)	N/A	N/A	N/A	N/A	N/A
Ability to withstand voltage dips for terminals below 110 kV	Article 14.3	Article 14.3 (a) (i) (b)	N/A	Y	N/A	N/A	Positive
Ability to withstand voltage dips for terminals above 110 kV	Article 16.3	Article 16.3 (a) (i) (c)	N/A	N/A	N/A	N/A	N/A
Introduction of fast current & symmetrical and asymmetrical disturbances	Article 20.2 (b) (c) & Article 21.3 (e)	Article 20.2 (b) (c) & Article 21.3 (e)	N/A	Y	N/A	N/A	Positive
Post interference recovery of active power	Article 20.3	Article 20.3 (a)	N/A	Y	N/A	N/A	Positive

Certificate of Conformity

No. ESY 082496 0050 Rev. 01

The operating mode of the power generating module in which the generated active power increases following a drop in system frequency below a specified value (LFSSM-U)	Article 15.2 (c)	Article 15.2 (c) (i)	N/A	N/A	N/A	N/A	N/A
FSM mode	Article 15.2 (d) (i)	Article 15.2 (d) (i)	N/A	N/A	N/A	N/A	N/A
Speed of power changes	Article 15.6 (e)	Article 15.6 (e)	N/A	N/A	N/A	N/A	N/A
Voltage conditions	Article 16.2 (a)	Article 16.2 (a) (i)	N/A	N/A	N/A	N/A	N/A
Reactive power - Capabilities	Article 20.2 (a) & 21.3 (b) (i) (c) (d)	Article 20.2 (a) & 21.3 (b) (i) (c) (d)	Y	Y	N/A	N/A	Positive
Remark: * Article 13.2 lit. b) only applies to PGM type A according to the RfG:2016.							