

# Certificate

No. ESY 082496 0057 Rev. 01

## Unit Certificate

**Holder of Certificate:** **SolarEdge Technologies Ltd.**

1 Hamada Street  
4673335 Herzeliya  
ISRAEL

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

**Model(s):** **PCS050**

**Parameters:** See page 2

**Applicable standards:** VDE-AR-N 4110:2023  
FGW TR3:2022  
FGW TR4:2022  
FGW TR8:2019

This Certificate 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](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64290253087302

**Date,** 2026-04-02

*Kennen Wang*

( Kennen Wang )

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## Parameters:

General and input/output values	
Manufacturer	SolarEdge Technologies Ltd.
Type name	PCS050
No. of phases	3 phases
Rated apparent power	50000 VA
Rated active power	50000 W
Maximum active power $P_{E_{max}}$	50142 W
Rated AC-voltage	230/400 V <sub>AC</sub> , 3W+N+PE
Rated frequency	50 Hz
Contribution to short circuit current (RMS)	80.4 A <sub>AC</sub>
<b>Battery input/output values</b>	
Min. Battery voltage	350 V <sub>DC</sub>
Max. Battery voltage	750 V <sub>DC</sub>
Max. Battery current	55*2 A <sub>DC</sub>
Max. Battery discharge power	50000 W
Max. Battery charge power	50000 W
<b>Converter-Power section</b>	
Manufacturer	SolarEdge Technologies Ltd.
Type name	PCS050
Rated apparent power	50000 VA
Generic type	MV/LV transformer is not included in the inverter
Pulse rated of inverter	15.6 kHz
Generic type of power control	PWM
Software version	DSP1: V010B00D00 DSP2: V010B00D00 EMS: V010B00D00

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<b>Manufacturer</b>	SolarEdge Technologies Ltd.		
<b>Power generation unit type</b>	Energy Storage Inverter, type 2 storage unit		
<b>Technical data</b>	Rated active power:	PCS050	50 kW
	Rated voltage:	230/400 V <sub>AC</sub> , 3W+N+PE	
	Nominal frequency:	50 Hz	
<b>Network connection rule</b>	VDE-AR-N 4110:2023-09 "TCR Medium-voltage" Technical requirements for the connection and operation of customer installations to the medium voltage network		
<b>Certification program</b>	FGW Technical guideline No 8 (Revision 9)		
<b>Standards/guidelines which are also applicable</b>	FGW Technical guideline No 3 (Revision 26) FGW Technical guideline No 4 (Revision 10)		
The power generating unit designated above meets the requirements of the VDE application guide listed above. The following restrictions and deviations apply: The computer simulation model is validated with the built environment DigSilent Powerfactory 2023 SP4 (x64) and with the identity number: 1) For the model PCS050 MD5 code: 7f82fe7644378c8fa9ed65999d7ded89 The integrated voltage/frequency protection is provided but without test terminal strips for function tests on-site for power generation system according to Clause 6.3.4.5 of VDE-AR-N 4110:2023. It should be considered during the planning of power generation system. The manufacturer has provided proof of certification of the quality management system of his production facility in accordance with ISO 9001.			
The certificate includes the following: <ul style="list-style-type: none"> <li>- technical data of the power generating unit, the auxiliary equipment used and the software version used (See Page 2);</li> <li>- schematic set-up of the power generation unit (See Page 4);</li> <li>- summarized information on the properties of the power generating unit (Technical report 64.290.25.30873.02 for the full evaluation according to FGW TR8 guideline).</li> </ul>			
<b>Certificate expiry date</b>	2031-04-01		

