

# Certificate of Conformity

No. ESY 082496 0057 Rev. 00

**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 TR8:2019

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

**Test report no.:** 64290253087301

**Date,** 2025-05-28



( Billy Qiu )

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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	50 kVA
Rated active power	50 kW
Rated AC-voltage	230/400 V <sub>AC</sub> , 3P+N+PE
Rated frequency	50 Hz
Contribution to short circuit current (RMS)	80 A <sub>AC</sub>
Battery Input/Output values	
Min. Battery voltage	350 V <sub>DC</sub>
Max. Battery voltage	750 V <sub>DC</sub>
Max. Charge/Discharge current	55*2 A <sub>DC</sub> / 55*2 A <sub>DC</sub>
Max. Charge/Discharge power	55 kW / 55 kW
Converter-Power section	
Manufacturer	SolarEdge Technologies Ltd.
Type name	PCS050
Rated apparent power	50 kVA
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	V170B000D000

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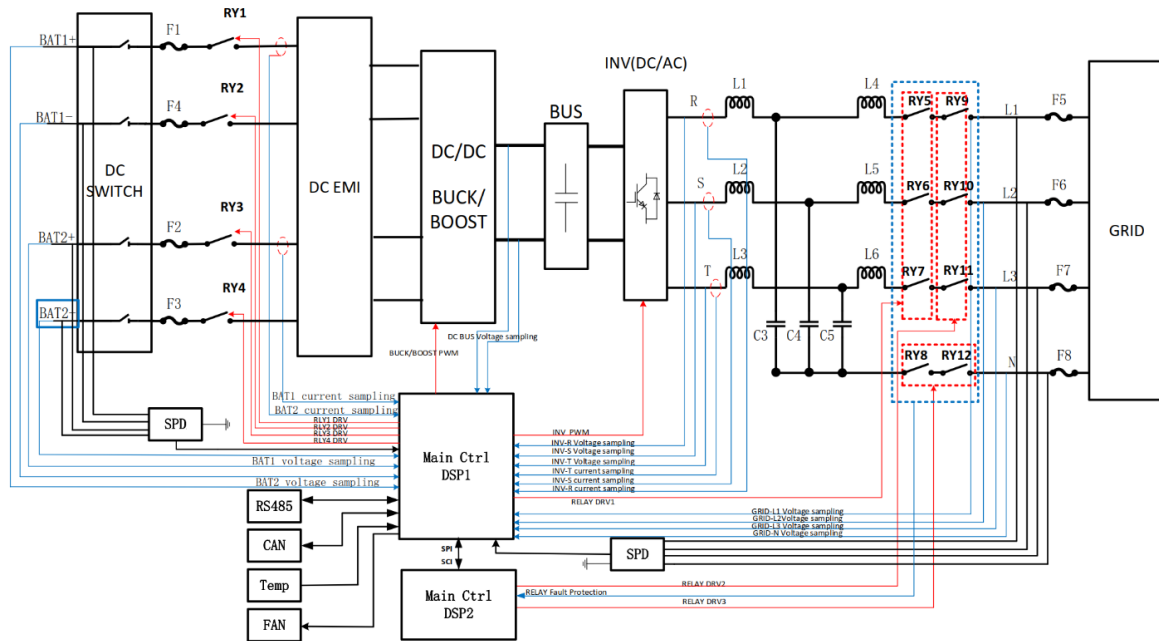
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Prototype Confirmation			
Manufacturer	SolarEdge Technologies Ltd.		
Power generation unit type	Energy Storage Inverter, type 2		
Technical data	Rated active power:	PCS050	50 kW
	Rated voltage:	PCS050	230/400 V <sub>AC</sub> , 3P+N+PE
	Nominal frequency:	PCS050	50 Hz
Network connection rule	VDE-AR-N 4110:2023-09 “TCR Medium-voltage” Technical requirements for the connection and operation of customer installations to the medium voltage network		
Certification program	FGW Technical guideline No 8 (Revision 9)		
<p>The following certification programme is evaluated according to clause 12 of VDE-AR-N 4110:2023-09 and clause 2.11 of FGW TR8:2019 for confirmation of regulation for prototypes:</p> <ul style="list-style-type: none"><li>- Electrical data (See page 2)</li><li>- Schematic overview circuit diagram of the power generating unit (See page 4)</li><li>- Operating ranges of the power generating unit *</li><li>- Protection functions with setting ranges*</li><li>- Active power control*</li><li>- Reactive power control*</li><li>- Dynamic reactive current feed-in*</li><li>- Declaration of the manufacturer stating compliance of VDE-AR-N 4110:2023-09 of above models</li></ul> <p>Remark:</p> <p>1. “**”: For the detail, see the technical report 64.290.25.30873.01 for the full evaluation according to clause 12 of VDE-AR-N 4110:2023-09 and clause 2.11 of FGW TR8:2019-02.</p> <p>2. The validity of this prototype confirmation is limited to 2 years from the date of issue until the certificate expiry date. Full verification of the requirements must be carried out as a Unit certificate before the certificate expiry date.</p>			
Certificate expiry date	2027-05-27		

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## Schematic set-up of the power generation unit



Schematic overview circuit diagram