



Product Service

# Compliance Document

No. D 082496 0047 Rev. 00

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

**Product:** **Converter**  
**(Energy Storage Inverter with storage battery system)**

**Model(s):** **Inverter model: PCS050**  
**Battery model: CSS-OU-20**

**Parameters:** See page 2

**Tested according to:** CEI 0-21:2022  
CEI 0-21:2022/V1:2022  
CEI 0-21:2022/V2:2024

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64290243052501

**Date,** 2024-07-03

( Billy Qiu )

# Compliance Document

No. D 082496 0047 Rev. 00

## Parameters:

Model	PCS050
Battery input/output parameters	
Battery type	LiFePO4
Maximum voltage [V <sub>DC</sub> ]	750
Battery rated voltage [V <sub>DC</sub> ]	512
Battery voltage range [V <sub>DC</sub> ]	350 - 750
Maximum charge power [W]	55000
Maximum discharge power [W]	55000
Maximum charge current [A <sub>DC</sub> ]	55/55
Maximum discharge current [A <sub>DC</sub> ]	55/55
Grid terminal input parameters	
Rated input voltage [V <sub>AC</sub> ]	3P+N+PE, 230/400
Rated input frequency [Hz]	50
Maximum continuous input current from grid to battery [A <sub>AC</sub> ]	72
Maximum continuous input current [A <sub>AC</sub> ]	80
Maximum continuous input power from grid to battery [W]	50000
Maximum continuous input active power [W]	50000
Maximum continuous input apparent power [VA]	55000
Power factor range	0.9 inductive to 0.9 capacitive
Grid terminal output parameters	
Rated output voltage [V <sub>AC</sub> ]	3P+N+PE, 230/400
Rated output frequency [Hz]	50
Rated output current [A <sub>AC</sub> ]	72
Maximum continuous output current [A <sub>AC</sub> ]	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 to 0.9 capacitive
General parameter	
Operation temperature range [°C]	-25 to +60
Storage temperature range [°C]	-40 to +70

Battery model parameters see below page: 4

# Compliance Document

No. D 082496 0047 Rev. 00

<p><b>The following generators meet the requirements of CEI 0-21:2022, CEI 0-21:2022/V1:2022 and CEI 0-21:2022/V2:2024</b></p>		
Section A	<p>Manufacturer</p>	<p>SolarEdge Technologies Ltd. 1 Hamada Street 4673335 Herzeliya ISRAEL</p>
	<p>Equipment type</p>	<p>Energy Storage Inverter with storage battery system</p>
	<p>Brand</p>	<p>SolarEdge</p>
	<p>N. phases</p>	<p><input type="checkbox"/> Single phase <input checked="" type="checkbox"/> Three phase Frequency: 50Hz      Voltage: a.c. 230V/400V</p>
	<p>Primary energy used</p>	<p><input type="checkbox"/> Solar <input checked="" type="checkbox"/> Storage <input type="checkbox"/> Wind <input type="checkbox"/> Hydroelectric <input type="checkbox"/> CHP <input type="checkbox"/> Other:</p>
	<p>Generator model</p>	<p>PCS050</p>
	<p>Nominal power</p>	<p>50000 W</p>
	<p>Apparent power</p>	<p>55000 VA</p>
	<p>The generator:</p>	<p><input checked="" type="checkbox"/> is suitable for installation in systems with an output power of more than 11.08 kW <input checked="" type="checkbox"/> is capable of limiting Idc to 0.5% of rated current: <input checked="" type="checkbox"/> uses a DC-sensitive protection function <input type="checkbox"/> uses a transformer operating at mains frequency</p>
Section C	<p>Characteristics of the static converter</p>	
	<p>Static converter model</p>	<p>PCS050</p>
	<p>Manufacturer of the static converter</p>	<p>SolarEdge Technologies Ltd.</p>
	<p>Firmware version</p>	<p>V000B000D001</p>
	<p>Rated converter power (P<sub>NINV</sub>)</p>	<p>50000 W</p>

# Compliance Document

No. D 082496 0047 Rev. 00

Section E	Characteristics of the Storage System (SdA)	
	Converter forming storage system	
	Converter Manufacturer	SolarEdge Technologies Ltd.
	Converter model	PCS050
	Battery forming storage system	
	Battery Manufacturer	SolarEdge Technologies Ltd.
	Battery model	CSS-OU-20
	Capacity of battery [kWh]	102.4 (with 2* battery units in parallel)
	Remark: The Storage System parameters are referred to the report No.: 64.290.24.30525.01	
	Typology	<input checked="" type="checkbox"/> Bidirectional <input type="checkbox"/> Monodirectional
	Batteries that can be used with the above static converters	
	Brand	SolarEdge
	Technology	LiFePO4
	Models	CSS-OU-20
	CUS module (kWh)	204.8 (with 2 × battery system in parallel, each battery system includes total 20 battery module EM-5.1K01 (2P10S) in series)
	BMS firmware version	BAU V3001.31.12.0 BCU V3301.21.12.0 CSU V101.11.0
	N. of modules	2 × battery system in parallel, each battery system includes total 20 battery module EM-5.1K01 (2P10S) in series
Note	Batteries are not contained in the inverter and should be installed according to local regulations and in accordance with manufacturer's instruction.	
Section I	References of the laboratories that performed the tests and their test reports (RdP)	
	Chosen method	<input checked="" type="checkbox"/> Tests performed by an accredited laboratory
	Test Reports (RdP)	Test report according to Annex Bbis: 64.290.24.30525.01
	Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
	Accreditation No.	D-PL-19065-01-00
	Accreditation body ref.	DAkKS
Section M	Reference of the certification body	
	Certification Body	TÜV SÜD Product Service GmbH DAkKS accreditation certificate D-ZE-11321-01-00 according to DIN EN ISO/IEC 17065:2013