



**BUREAU  
VERITAS**

# Certificate of compliance

**Manufacturer / applicant:** SolarEdge Technologies Ltd.  
1 HaMada Street  
Herzeliya 4673335  
Israel

**Product type:** Photovoltaic (PV) inverter / power analyzer / Current transformer

**Model:**

|  |  |
|--|--|
| <b>Inverter:</b>                             | SE2200H, SE3000H, SE3500H,<br>SE3680H, SE4000H, SE4600H,<br>SE5000H* (4985W), SE5000H,<br>SE6000H, SE8000H, SE10000H |
| <b>Inline Energy Meter:</b>                  | MTR-240-3PC1-D-A-MW, MTR-240-<br>1PC1-DW-MW  |
| <b>Energy Meter:</b>                         | SE-WND-3Y400-MB-K2, SE-RWND-3D-<br>208-MB, SE-RGMTR-3D-208V-A,<br>SE-MTR-3Y-400V-A                                   |
| <b>Current transformer for Energy Meter:</b> | ACTL-0750-250  |

**The certificate refers to the stated model(s) which passed the tests according to the applicable standard(s):**

**UNE 217001:2020**

Requirements and tests for systems intended to avoid the energy transmission to the distribution network

**RD 244:2019**

Royal Decree 244/2019, of April 5, which regulates the administrative, technical and economic conditions of the self-consumption of electrical energy. ITC-BT-40 low voltage generating facilities Annex I: Systems to avoid the discharge of energy to the grid.

**Report number:** 16TH0371-UNE217001 IN\_2

**Certification program:** NSOP-0032-DEU-ZE-V01

**Certificate number:** U22-0280

**Date of issue:** 2022-05-10



**Certification body**

Thomas Lammel



Certification body Bureau Veritas Consumer Products Services Germany GmbH accreditation to DIN EN ISO/IEC 17065

Testing laboratory accredited according to DIN EN ISO/IEC 17025

A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH

## Ratings

| <b>Photovoltaic inverter:</b> | <b>SE2200H</b>    | <b>SE3000H</b> | <b>SE3500H</b>  | <b>SE3680H</b> |
|-------------------------------|-------------------|----------------|-----------------|----------------|
| Input DC voltage range [V]:   | 270-480           |                |                 |                |
| Input DC current [A]:         | 8,5               | 11,5           | 13,5            | 15             |
| Output AC voltage [V]:        | 220/230 60Hz/50Hz |                |                 |                |
| Output AC current [A]:        | 10                | 14             | 16              | 16             |
| Output power [VA]:            | 2200              | 3000           | 3500            | 3680           |
|                               |                   |                |                 |                |
| <b>Photovoltaic inverter:</b> | <b>SE4000H</b>    | <b>SE4600H</b> | <b>SE5000H*</b> | <b>SE5000H</b> |
| Input DC voltage range [V]:   | 270-480           |                |                 |                |
| Input DC current [A]:         | 11                | 12,5           | 13,5            | 13,5           |
| Output AC voltage [V]:        | 220/230 60Hz/50Hz |                |                 |                |
| Output AC current [A]:        | 18,5              | 21             | 23              | 23             |
| Output power [VA]:            | 4000              | 4600           | 4985            | 5000           |
|                               |                   |                |                 |                |
| <b>Photovoltaic inverter:</b> | <b>SE6000H</b>    | <b>SE8000H</b> | <b>SE10000H</b> | <b>--</b>      |
| Input DC voltage range [V]:   | 270-480           |                |                 |                |
| Input DC current [A]:         | 16,5              | 20,5           | 25,5            | --             |
| Output AC voltage [V]:        | 220/230 60Hz/50Hz |                |                 |                |
| Output AC current [A]:        | 27,5              | 36,5           | 45,5            | --             |
| Output power [VA]:            | 6000              | 8000           | 10000           | --             |
|                               |                   |                |                 |                |

## Ratings

|  |                            |
|--|----------------------------|
| <b>Inline Energy Meter (Power Analyzer) with Modbus</b>                                    | <b>MTR-240-3PC1-D-A-MW</b> |
| <b>Electrical ratings</b>  |                            |
| Operating Voltage Range – Line to Neutral / Line to Line [Vac]                             | 184-264,5 / 320-460        |
| AC Frequency [Hz]  | 50 / 60                    |
| Grids Supported – Single Phase / Three Phase   | L1/L2/L3/N /Wye)           |
| Power Consumption (typ.) [W]   | 1,8 - 2                    |
| Maximum current [A]  | 65                         |
| CAT III [Vac]  | 600                        |
| Active Energy Accuracy   | EN 54070 Class B           |
| Active Energy Accuracy error ( $I_{tr} \leq I < I_{max} / I_{min} \leq I < I_{tr}$ ) [%]   | 1 / 1,5                    |
| Reactive Energy Accuracy   | IEC 62053-23 class 2       |
| Reactive Energy Accuracy error ( $I_{tr} \leq I < I_{max} / I_{min} \leq I < I_{tr}$ ) [%] | 2 / 2,5                    |
| <b>Electrical ratings</b>  |                            |
| <b>Inline Energy Meter (Power Analyzer) with Modbus</b>                                    | <b>MTR-240-1PC1-D-A-MW</b> |
| <b>Electrical ratings</b>  |                            |
| Operating Voltage Range – Line to Neutral / Line to Line [Vac]                             | 184-264,5 / 320-460        |
| AC Frequency [Hz]  | 50 / 60                    |
| Grids Supported – Single Phase / Three Phase   | L1/N                       |
| Power Consumption (typ.) [W]   | 1,8 - 2                    |
| Maximum current [A]  | 65                         |
| CAT III [Vac]  | 600                        |
| Active Energy Accuracy   | EN 54070 Class B           |
| Active Energy Accuracy error ( $I_{tr} \leq I < I_{max} / I_{min} \leq I < I_{tr}$ ) [%]   | 1 / 1,5                    |
| Reactive Energy Accuracy   | IEC 62053-23 class 2       |
| Reactive Energy Accuracy error ( $I_{tr} \leq I < I_{max} / I_{min} \leq I < I_{tr}$ ) [%] | 2 / 2,5                    |

## Ratings

|  |   |
|--|---|
| <b>Energy Meter (Power Analyzer) with Modbus</b>                       | <b>SE-WND-3Y400-MB-K2</b>               |
| <b>Electrical ratings</b>  |   |
| Operating Voltage Range<br>Line to Neutral [Vac]<br>Line to Line [Vac] | 184-264,5<br>320-460                    |
| AC Frequency [Hz]  | 50 / 60                                 |
| Grids Supported<br>Single Phase / Three Phase                          | L/N/PE ;L1/L2/L3/N/PE                   |
| Power Consumption (typ.) [W]   | 1,8                                     |
| <b>Energy Meter (Power Analyzer) with Modbus</b>                       | <b>SE-RGMTR-3D-208V-A</b>               |
| <b>Electrical ratings</b>  |   |
| Operating Voltage Range<br>Line to Neutral [Vac]<br>Line to Line [Vac] | N/A / 182 -264                          |
| AC Frequency [Hz]  | 45 - 65                                 |
| Grids Supported<br>Single Phase / Three Phase                          | 3 Phase, 3 Wire Delta                   |
| Power Consumption (typ.) [W]   | 1 - 1,5                                 |
| <b>Energy Meter (Power Analyzer) with Modbus</b>                       | <b>SE-RWND-3D-208-MB</b>                |
| <b>Electrical ratings</b>  |   |
| Operating Voltage Range<br>Line to Neutral [Vac]<br>Line to Line [Vac] | N/A / 208 -240                          |
| AC Frequency [Hz]  | 50 / 60                                 |
| Grids Supported<br>Single Phase / Three Phase                          | 4 wire WYE (L1-L2-L3-N) or 3 wire Delta |
| Power Consumption (typ.) [W]   | 1,8                                     |
| <b>Energy Meter (Power Analyzer) with Modbus</b>                       | <b>SE-MTR-3Y-400V-A</b>                 |
| <b>Electrical ratings</b>  |   |
| Operating Voltage Range<br>Line to Neutral [Vac]<br>Line to Line [Vac] | 108 – 305 / 230 – 400                   |
| AC Frequency [Hz]  | 50 / 60                                 |
| Grids Supported<br>Single Phase / Three Phase                          | L/N/PE ;L1/L2/L3/N/PE                   |
| Power Consumption (typ.) [W]   | 3                                       |

## Ratings

|  |   |
|--|---|
| <b>Current transformer:</b>  | <b>ACTL-0750-250</b>  |
| <b>Electrical ratings</b>  |   |
| CAT IV (service entrance) [Vac]:   | 250   |
| CAT III [Vac]:   | 600   |
| Line Frequency:  | 50 / 60   |
| Output Voltage at Rated Amps [Vac]:  | 0,33333   |
| <b>Standard Accuracy (% of reading)</b>  |   |
| Accuracy:  | ±0,75% from 1% to 120% of rated primary current   |
| Phase angle:   | ±0,50 degrees (30 minutes) from 1% to 120% of rated current   |
| IEEE C57.13 accuracy:  | class 1,2 from 1% to 120% of rated current  |
| IEC 60044-1 accuracy:  | class 1,0 from 1% to 120% of rated current  |
| <b>Revenue Grade Accuracy (% of reading)</b>   |   |
| Accuracy:  | ±0,50% from 1% to 120% of rated primary current   |
| Phase angle:   | ±0,25 degrees (15 minutes) from 1% to 120% of rated @ current; ±0.50 degrees (30 minutes) below 0°C from 1% to 10% of rated current |
| IEEE C57.13 accuracy:  | class 0,6 from 1% to 120% of rated current  |
| IEC 60044-1 accuracy:  | class 0,5 and 0,5 S from 1% to 120% of rated current  |
| <p><b>Note:</b><br/> The ACTL-0750-250 accuracy may be degraded if you exceed 40°C and 100% of rated current simultaneously. With Option C0.6, the Accu-CT is calibrated to meet IEEE/ANSI C57.13-2008 class 0,6 accuracy and IEC 60044-1 class 0,5 S accuracy and each CT is shipped with a certificate of calibration.</p> <p>The test system is designed for the use of one photovoltaic inverter together with the power analyser.</p> <p>Assimilable power analyser and current transformer can be used that meet characteristics above with</p> <ul style="list-style-type: none"> <li>- same connection rate (single phase or three phase).</li> <li>- same measurement tolerance.</li> <li>- same time of refreshment of the measurements made (or less).</li> <li>- same type of communications.</li> <li>- in the event that additional current or voltage transformers are required, same precision of the assembly or higher.</li> </ul> |   |