

**Name of Testing Laboratory** ..... : SGS TECNOS S.A. (Laboratory of electrical tests)  
**Applicant** ..... : SGS TECNOS S.A. (Certification Body)  
**Hired by** ..... : EVOLVE ENERGY GROUP CO., LIMITED  
**Address** ..... : RM 702, 7/F FU FAI COMM CTR 27 HILLIER ST SHEUNG WAN, HK

**Date (s) of performance of tests** : 30/10/2017 till 11/11/2017, and 24/04/2019 till 06/05 2019

**Test item description**..... : Solar Grid-tied Inverter (Single Phase Inverter)  
**Status and date of receipt** ..... : N/A  
**Manufacturer** ..... : **EVOLVE ENERGY GROUP CO., LIMITED**

**Trade Mark** ..... : 

**Model / Type Reference**... ..... : **EVVO 6000TLG2, EVVO 5000TLG2, EVVO 4600TLG2, EVVO 4000TLG2, EVVO 3600TLG2, EVVO 3000TLG2,**

**Firmware Version**... ..... : V 0.22




**Ratings**..... : (\*) See page 2 of this Report

**Applied Specifications** ..... : Standard:  
 IEC 61683: 1999

**Test Results** ..... : The test results obtained refer only to the samples tested, which are the object of this report, considering the most unfavorable values of the test and verifications carried out. The uncertainties of measurement associated to the quantities determined during the tests are in the laboratory available to the applicant.

**Conclusion**..... : According to the test results, the sample tested is found in **CONFORMANCE** with the requirements stated in the specifications applied

Note: The declaration of conformity has been evaluated taking account the IEC Guide 115.  
 Madrid, June 18<sup>th</sup>, 2019

| Tested by:   | Reviewed by:  |
|--|---|
| Project Engineer   | Technical Reviewer  |
| <br><br><b>ROGER HU</b> | <br><br><br><b>JACOBO TÉVAR</b> |

The present Test Report, consisting of 2 page and the TRF 2217 / 1094 – 4 – M2 including 26 pages and 17 pages attachments, is a co-report of test report 2217 / 1094 – 4– M1 and shall not be reproduced partially without the approval of SGS.

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Miembro del Grupo SGS (Société Générale de Surveillance)

**General Producto Information:**

| Product Model               | EVVO<br>3000TL<br>G2 | EVVO<br>3600TL<br>G2 | EVVO<br>4000TL<br>G2 | EVVO<br>4600TL<br>G2 | EVVO<br>5000TL<br>G2 | EVVO<br>6000TL<br>G2 |
|-----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>Input (DC)</b>           |                      |                      |                      |                      |                      |                      |
| Max.DC Input Power          | 3500W                | 4000W                | 4400W                | 5000W                | 5500W                | 6600W                |
| Max.DC Voltage              | 600V                 |                      |                      |                      |                      |                      |
| Power Turn on               | 80V                  |                      |                      |                      |                      |                      |
| Start-up input voltage      | 120V                 |                      |                      |                      |                      |                      |
| Rated input voltage         | 360V                 |                      |                      |                      |                      |                      |
| MPPT Voltage Range          | 90-580V              |                      |                      |                      |                      |                      |
| Full load DC voltage range  | 160-<br>520V         | 180-<br>520V         | 200-<br>520V         | 230-<br>520V         | 250-<br>520V         | 300-<br>520V         |
| MAX input current per MPPT  | 11A/11A              |                      |                      |                      |                      |                      |
| Number of DC inputs         | 2/2                  |                      |                      |                      |                      |                      |
| <b>Output(AC)</b>           |                      |                      |                      |                      |                      |                      |
| Max AC Output power         | 3000VA               | 3680VA               | 4000VA               | 4600VA               | 5000VA               | 6000VA               |
| Max AC Output power (PF=1)  | 3000W                | 3680W                | 4000W                | 4600W                | 5000W                | 6000W                |
| Max AC Output Current       | 13.7A                | 16.8A                | 18.2A                | 21A                  | 22.8A                | 27.3A                |
| Nominal Grid Voltage        | 230Vac(Single phase) |                      |                      |                      |                      |                      |
| Nominal Frequency           | 50Hz                 |                      |                      |                      |                      |                      |
| Power factor                | 1(adjustable+/-0.9)  |                      |                      |                      |                      |                      |
| Topology                    | Transformerless      |                      |                      |                      |                      |                      |
| Operating temperature range | -25 °C ~60 °C        |                      |                      |                      |                      |                      |
| Degree of protection        | IP65                 |                      |                      |                      |                      |                      |

**Serial Number:** Serial Number: ZG1ES060H61001

ZH1ES160H9S999 for spot-check test

**(The Equipment parameters are changed by software)**

**Firmware version:** V 0.22