



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CERTIFICATION ENTITY FOR RENEWABLE ENERGIES, S.L.  
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ELECTRICAL

Valid To: July 31, 2024

Certificate Number: 5314.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with A2LA's FDA ASCA Accreditation Program<sup>1</sup> requirements), accreditation is granted to this laboratory to perform the following tests:

**Test Technology:**

Photovoltaics and other power conversion systems – Power Generating Units

**Test Method(s)<sup>2,3:</sup>**

Procedimiento de verificación, validación y certificación de los requisitos del PO 12.3 sobre la respuesta de las instalaciones eólicas y fotovoltaicas ante huecos de tensión” versión 10 de 26 de enero de 2012 de la Asociación Empresarial; Eólica. Anexo III;  
VDE-V 0126-1-1;  
UTE C 15-712-1;  
C10/11;  
NDU-013;  
NDU-015;  
ABNT NBR 16149;  
ABNT NBR 16150;  
INMETRO ordinances 004/2011;  
INMETRO ordinances 357/2014;

COES SINAC, Procedimiento Técnico del Comité de Operación Económica del SEIN. Aprobado mediante Resolución OSINERGMIN N° 035-2013-OS/CD.

**Test Technology:**

Photovoltaics and other power conversion systems – Power Generating Units (*cont.*)

**Test Method(s)<sup>2,3:</sup>**

EN 50530;  
IEC 61683;  
IEC 61727;  
UL 1741;  
IEC 62116;

Norma Técnica de Conexión y Operación de PGMD en instalaciones de media tensión.  
Norma Técnica de Seguridad y Calidad de Calidad de Servicio.;

Grid Connection code for Renewable Power Plants (RPPS) connected to the electricity transmission system (TS) or the distribution system (DS) in South Africa.;

NRS 097-2-1;  
IRR-TIC;  
IRR-DCC (MV);  
CRE-3025;

Metropolitan electricity Authority. Grid-connected inverter regulation;

Provincial Electricity Authority's Regulation on the Power Network System Interconnection Code.  
Arrêté Relatif aux prescriptions techniques de conception et de fonctionnement pour le raccordement à un réseau public de distribution d'électricité en basse tension ou en moyenne tension d'une installation de production d'énergie électrique;

DEWA. Standards for distributed renewable resources generators connected to the distribution network.;

Malaysian Grid Code:2015

**Test Technology:**

Photovoltaics and other power conversion systems – Power Generating Units<sup>4</sup> (*cont.*)

**Test Method(s)<sup>2,3:</sup>**

Código de Redes Fotovoltaico, Normas técnicas, operativas y de calidad, para la conexión de los sistemas de centrales solares y centrales solares con tecnología fotovoltaica al sistema interconectado nacional (SIN).;

ORDER 30/2013;

AS 4777.2;

AS 4777.3;

Phillipines Grid code:2016;

Solar Energy Plants Grid Connection Code (Egypt);

Indian Electricity Grid Code:2010;

RD 244/2019;

IEC 62109-1;

IEC 62109-2;

ENA-EREC G98;

ENA-EREC-G99;

IEC 61439-1;

IEC 61439-2;

Central Electricity Authority Notification, India

IEC 61851-1;

UL2202;

UL2594;

UL 3703;

IEC 62817;

ISO 6858;

IEC 62909-1;

Portaria 73-2020;

TOR

UNE 217001;

UNE 217002;

IEC 62933-5-2;

IEC 61851-23;

UL 9540;

IEC 61851-24

**Test Technology:**

Product Safety – Medical Equipment<sup>3</sup>

**Test Method(s)<sup>2,3:</sup>**

UNE-EN 60601-1; IEC 60601-1; EN 60601-1;  
ANSI AAMI ES60601-1:2005/(R)2012 and  
A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012  
(Consolidated Text);  
ES60601-1:2005/(R)2012 & A1:2012  
C1:2009/(R)2012 & A2:2010/(R)2012 (Cons.  
Text) [Incl. AMD2:2021];  
EN 60601-1-6; EN 60601-1-11;  
EN 60601-2-22; EN 60601-2-57;  
IEC 60601-1-6 Edition 3.1 2013-10;  
IEC 60601-1-6 Edition 3.2 2020-07  
CONSOLIDATED VERSION;  
IEC 60601-1-11 Edition 2.0 2015-01;  
IEC 60601-1-11 Edition 2.1 2020-07  
CONSOLIDATED VERSION;  
IEC 60601-2-22 Edition 3.1 2012-10;  
IEC 60601-2-57 Edition 1.0 2011-01

Product Safety – Medical Equipment<sup>3</sup>  
(without date/edition reference<sup>2</sup>)

UNE-EN 60601-1; IEC 60601-1; EN 60601-1;  
ANSI AAMI ES60601-1;  
EN 60601-1-6; EN 60601-1-11;  
EN 60601-2-22; EN 60601-2-57;  
IEC 60601-1-6; IEC 60601-1-11; IEC 60601-2-22  
IEC 60601-2-57

Product Safety-Electrical products

IEC 62368-1;  
IEC 61010-1 Edition 3.1 2017-01;  
IEC 61010-2-101;  
IEC 60204-1;  
IEC 60335-1;  
IEC 60335-2-30;  
IEC 60335-2-75;  
IEC 62477-1

Conducted and Radiated Emissions

CISPR 11 (to 6 GHz);  
EN 55011 (to 6 GHz);

CISPR 14-1 (Excluding LLAS measurements)  
EN 55014-1 (Excluding LLAS measurements)

Harmonics Current Emissions  
Fluctuation and Flicker

EN 61000-3-2; IEC 61000-3-2; EN 61000-3-3;  
IEC 61000-3-3; EN 61000-3-11; IEC 61000-3-11;  
EN 61000-3-12; IEC 61000-3-12

Electrostatic Discharge (ESD)

EN 61000-4-2; IEC 61000-4-2

Radiated Immunity

EN 61000-4-3; IEC 61000-4-3

Electrical Fast Transient/Burst (EFT)	EN 61000-4-4; IEC 61000-4-4
Surge Immunity	EN 61000-4-5; IEC 61000-4-5
<b><u>Test Technology:</u></b> Conducted Immunity	<b><u>Test Method(s)<sup>2,3:</sup></u></b> EN 61000-4-6; IEC 61000-4-6
Power Frequency Magnetic Field	EN 61000-4-8; IEC 61000-4-8
Voltage Dips, Short Interruptions and Voltage Variations Immunity Family, Product or Industry Specific Specifications	EN 61000-4-11; IEC 61000-4-11  EN 55014-1 (excluding disturbance power measurements); EN 55014-2; EN 55032 (excluding Annex H) EN 55035 (excluding Annex A, D, E, F, G, H) IEC/EN 61000-6-1; IEC/EN 61000-6-2; IEC/EN 61000-6-3; IEC/EN 61000-6-4; IEC/EN 60601-1-2 Edition 4.0, 2014-02; IEC/EN 60601-1-2 Edition 4.1, 2020-09; IEC/EN 61326-1; IEC/EN 61326-2-6; IEC/EN 62920; IEC 61851-21-2

Testing Activities performed under the scope of the U.S FDA ASCA Pilot Program Specifications: *Basic Safety and Essential Performance of Medical Electrical Equipment, Medical Electrical Systems, and Laboratory Medical Equipment – Standards Specific Information for the Accreditation Scheme for Conformity Assessment (ASCA) Pilot Program* published on September 25th, 2020, and in accordance with all requirements of A2LA R256 *Specific Requirements- FDA ASCA Program*<sup>1</sup>

<b>Standards</b>	<b>Recognition Number:</b>
ANSI AAMI ES60601-1:2005/(R)2012 and A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012 (Consolidated Text)	19-4
ANSI AAMI ES60601-1:2005/(R)2012 & A1:2012 C1:2009/(R)2012 & A2:2010/(R)2012 (Cons. Text) [Incl. AMD2:2021]	19-46
IEC 60601-1-2 Edition 4.0, 2014-02	19-8
IEC 60601-1-2 Edition 4.1, 2020-09 CONSOLIDATED VERSION	19-36
IEC 61010-1 Edition 3.1 2017-01 CONSOLIDATED VERSION	19-34
IEC 60601-1-6 Edition 3.1 2013-10	5-89
IEC 60601-1-6 Edition 3.2 2020-07 CONSOLIDATED VERSION	5-131
IEC 60601-1-11 Edition 2.0 2015-01	19-14
IEC 60601-1-11 Edition 2.1 2020-07 CONSOLIDATED VERSION	19-38
IEC 60601-2-22 Edition 3.1 2012-10	12-268
IEC 60601-2-57 Edition 1.0 2011-01	12-242

<sup>1</sup>These methods have been assessed by A2LA according to A2LA’s FDA ASCA Program requirements. Accreditation by A2LA does not imply FDA ASCA-Accreditation. All ASCA-accreditation decisions for testing laboratory applications are made solely by the FDA, a list of approved laboratories can be found at FDA.gov.

<sup>2</sup>When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements-Accreditation of ISO-IEC 17025 Laboratories*.

<sup>3</sup>The laboratory is only accredited for testing activities outlined within the test methods listed above. Reference to any other activity within these standards, such as risk management or risk assessment, does not fall within the laboratory’s accredited capabilities.



## Accredited Laboratory

A2LA has accredited

### CERTIFICATION ENTITY FOR RENEWABLE ENERGIES, S.L.

*Madrid, Spain*

for technical competence in the field of

### Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets A2LA R256 – Specific Requirements – FDA ASCA Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 19<sup>th</sup> day of October 2022.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 5314.01  
Valid to July 31, 2024

*For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.*