



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CERTIFICATION ENTITY FOR RENEWABLE ENERGIES USA, LLC
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ELECTRICAL

Valid To: February 28, 2022

Certificate Number: 5314.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electrical tests:

Test Technology:

Photovoltaics and other power conversion systems including PPC – Power Generating Units¹

Test Method(s):

Norma técnica de supervisión de la conformidad de los módulos de generación de electricidad según el Reglamento UE 2016/631.

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 11;

UNE 206007-1 IN;
VDE-AR-N 4105;
CEI 0-16;
CEI 0-21;
UNE 217001 IN;
RD 244/2019;
UNE 206007-2 IN;
VDE-AR-N4110;
VDE-AR-N-4120;

FGW TG3, Determination of electrical characteristics of power generating units and systems connected to MV, HV and EHV grids.;

FGWTR4, Demands on modelling and validating. Simulation models of the electrical characteristics of Power Generating Units and Systems, storage systems as well as their components;

Test Technology:

Photovoltaics and other power conversion systems including PPC – Power Generating Units¹ (*cont.*)

Test Method(s):

VDE-ARN4130;
ENA-EREC G98;
ENA-EREC-G99
EN 50549-1;
EN 50549-2

VDE-V 0126-1-1;
EN 50438;
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;

Regulation 2016/631 of 14 of April 2016
establishing a network code on requirements for
grid connection of generators;

COES SINAC, Procedimiento Técnico del
Comité de Operación Económica del SEIN.
Aprobado mediante Resolución OSINERGMIN
Nº 035-2013-OS/CD;

EN 50530;
IEC 61683;
IEC 61727;
UL 1741;
IEC 62116;
IEEE 1547;
IEEE 929;

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;

Test Technology:

Photovoltaics and other power conversion systems including PPC – Power Generating Units¹ (*cont.*)

Test Method(s):

Electric Rule 21:

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
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;

Phillipine Grid code:2016;

Solar Energy Plants Grid Connection Code (Egypt);

Kenya Electricity Grid Code.;

Official Gazette Communique - Number 28783.
Communique on implementation of the regulation related with unlicensed electricity generation in electricity market;

The Grid Code for the Nigeria Electricity transmission system;

Indian Electricity Grid Code:2010;

IEC 61439-1;
IEC 61439-2;

Test Technology:

Photovoltaics and other power conversion systems including PPC – Power Generating Units¹ (*cont.*)

Test Method(s):

Central Electricity Authority Notification, India;

IEC 61851-1;
UL 2202 ;
UL 2594 ;
UL 3703 ;
IEC 62817;
ISO 6858;
IEC 62909-1;
Portaria 73-2020;
TOR;
UNE 217001;
UNE 217002

¹ This laboratory meets A2LA R104 – General Requirements: Accreditation of Field testing and Field Calibration Laboratories for these tests



Accredited Laboratory

A2LA has accredited

CERTIFICATION ENTITY FOR RENEWABLE ENERGIES USA, LCC

Miami, FL

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 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 14th day of January 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5314.03
Valid to February 28, 2022

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