SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: June 30, 2028 Certificate Number: 0591.13

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, to perform the following Environmental Simulation, and Safety tests:

Test Technology:	**Test Method(s) [1,3]:**
Product Safety Standard [2,4]	
North American Standards	
Panelboards	UL 67
Standard for Tests for Safety-Related Controls Employing Solid-State Devices	UL 991
ANSI/CAN/UL Batteries for Use in Stationary and Motive Auxiliary Power Applications	UL 1973
Software in Programmable Components	UL 1998
Disrupted Energy Generation and Storage Systems	UL 3001
Standard for Safety for Remote Software Updates	UL 5500
Energy Storage Systems and Equipment	UL 9540
Household and Similar Electrical Appliances	UL 60335-1
Medical Electrical Equipment. Part 1: General Requirements for Safety	UL 60601-1
Automatic Electrical Controls – Part 1: General Requirements	UL 60730-1
Outline of Investigation for Electric Vehicle Power Export Equipment (EVPE)	UL 9741

Test Technology:	**Test Method(s) [1,3]:**
Outline of Investigation for Power Control Systems	UL 3141
Medical Electrical Equipment. Part 1: General Requirements for Basic Safety and Essential Performance	ANSI/AAMI ES60601-1; ANSI/AAMI ES60601-1:2005/(R)2012 & A1:2012 C1:2009/(R)2012 & A2:2010/(R)2012 (Cons. Text) [Including AMD2:2021]
Medical electrical equipment — Part 1-8: General requirements for basic safety and essential performance — Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems	ANSI/AAMI 60601-1-8; ANSI/AAMI 60601-1-8:2006 and A1:2012 [Including AMD 2:2021]
Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment	ANSI AAMI HA60601-1-11 ANSI AAMI HA60601-1-11:2015 [Including AMD1:2021]
Medical electrical equipment - Part 2-77: Particular requirements for the basic safety and essential performance of robotically assisted surgical equipment	ANSI AAMI IEC 80601-2-77:2020
Medical device software – Software life cycle processes	ANSI/AAMI 62304
Medical devices- Part 1: Application of usability engineering to medical devices	ANSI/AAMI 62366-1
Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory use, Part 1: General Requirements	UL 61010-1; UL 61010-1 3rd Ed, dated May 12, 2012, with revision through July 19, 2019
Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory use, Part 1: Particular Requirements for Laboratory Equipment for the Heating of Materials	UL 61010-2-010
Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011: Particular requirements for refrigerating equipment	UL 61010-2-011
Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	UL 61010-2-081

Test Technology:	Test Method(s) [1,3]:
Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	UL 61010-2-101
Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment	UL 61010-2-201
Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements	UL 62368-1
Standard for Inverters, Converters, Controllers and Interconnection System Equipment for use with Distributed Energy Resources	UL 1741
Audio/video, information and communication technology equipment – Part 1: Safety requirements	AS/NZS 62368.1
Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	AS/NZS 60601.1
Safety requirements for electrical equipment for measurement, control and laboratory use - General requirements	AS 61010.1
Canadian Standards Safety Functions Incorporating Electronics Technology	CAN/CSA C22.2 No. 0.8
Interconnection of distributed energy resources and electricity supply systems	CAN/CSA C22.3 No. 9
Standard for Switchboards	CAN/CSA C22.2 No. 244
Photovoltaic combiners and recombiners	CAN/CSA C22.2 No. 290
Photovoltaic rapid shutdown systems	CAN/CSA C22.2 No. 330
Household and Similar Electrical Appliances	CAN/CSA C22.2 No. 60335-1
Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance — Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems	CAN/CSA C22.2 No. 60601-1-8
Medical electrical equipment - Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment	CAN/CSA C22.2 No. 60601-2-18

Test Technology:	Test Method(s) [1,3]:
Medical electrical equipment – Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators	CAN/CSA C22.2 No. 60601-2-10
Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment	CAN/CSA C22.2 No. 60601-2-37
Medical electrical equipment - Part 2-46: Particular requirements for the basic safety and essential performance of operating tables	CAN/CSA C22.2 No. 60601-2-46
Medical electrical equipment — Part 2-77: Particular requirements for the basic safety and essential performance of robotically assisted surgical equipment	CAN/CSA C22.2 No. 80601-2-77
Medical electrical equipment — Part 2-78: Particular requirements for basic safety and essential performance of medical robots for rehabilitation, assessment, compensation or alleviation	CAN/CSA C22.2 No. 80601-2-78
Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use, Part 1: General Requirements	CAN/CSA C22.2 No. 61010-1
Laboratory Equipment for the Heating of Materials	CAN/CSA C22.2 No. 61010-2-010
Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011: Particular requirements for refrigerating equipment	CAN/CSA C22.2 No. 61010-2-011
Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	CAN/CSA C22.2 No. 61010-2-081
Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	CAN/CSA C22.2 No. 61010-2-101
Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment	CAN/CSA C22.2 No. 61010-2-201
Safety of Power Converters for use in Photovoltaic Power Systems – Part 1: General Requirements	CAN/CSA C22.2 No. 62109-1

Test Technology:	Test Method(s) [1,3]:
Safety of Power Converters for use in Photovoltaic Power Systems – Part 2: Particular Requirements for Inverters	CAN/CSA C22.2 No. 62109-2
Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements	CAN/CSA C22.2 No. 62368-1
Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits; Part 1: General Requirements	CSA C22.2 No 281.1
Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: Particular Requirements for Protection Devices for Use in Charging Systems	CSA C22.2 No 281.2
International Standards IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems	IEEE 1547
Standard for Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems	IEEE 1547.1
California Rule 21 Grid code	California Rule 21
Hawaii Rule 14H Grid code	Hawaii Rule 14H
Household and Similar Electrical Appliances	EN 60335-1; IEC 60335-1:2010
Medical Electrical Equipment. Part 1: General Requirements for Safety and Essential Performance	IEC/EN 60601-1; IEC 60601-1 Edition 3.2 2020-08
Medical electrical equipment — Part 1-8: General requirements for basic safety and essential performance — Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems	IEC/EN 60601-1-8; IEC 60601-1-8 Edition 2.2 2020-07
Medical electrical equipment - Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment	IEC/EN 60601-2-18 IEC 60601-2-18 Edition 3.0 2009-08
Medical electrical equipment – Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators	IEC /EN 60601-2-10

Test Technology:	**Test Method(s) [1,3]:**
Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment	IEC/EN 60601-2-37; IEC 60601-2-37 Edition 3.0 2024-07; IEC 60601-2-37 Edition 2.1 2015
Medical electrical equipment - Part 2-46: Particular requirements for the basic safety and essential performance of operating tables	IEC/EN 60601-2-46
Medical electrical equipment — Part 2-77: Particular requirements for the basic safety and essential performance of robotically assisted surgical equipment	IEC/EN 80601-2-77
Medical electrical equipment — Part 2-78: Particular requirements for basic safety and essential performance of medical robots for rehabilitation, assessment, compensation or alleviation	IEC/EN 80601-2-78
Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements	IEC 61010-1; EN 61010-1
Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-010: Particular Requirements for Laboratory Equipment for the Heating of Materials	IEC 61010-2-010; EN 61010-2-10
Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011: Particular requirements for refrigerating equipment	IEC 61010-2-011; EN 61010-2-011
Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	IEC/EN 61010-2-081
Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	IEC/EN 61010-2-101
Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment	IEC/EN 61010-2-201
Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements	IEC 62368-1; EN 62368-1

Test Technology:	**Test Method(s) [1,3]:**
Safety of power converters for use in photovoltaic power systems - Part 1: General requirements	IEC 62109-1
Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters	IEC 62109-2
Safety requirements for power electronic converter systems and equipment - Part 1: General	IEC 62477-1
Bi-directional grid connected power converters – Part 1: General requirements	IEC 62909-1
Uninterruptible power systems (UPS) - Part 1: Safety requirements	IEC 62040-1
Utility-interconnected photovoltaic inverters - Test procedure of islanding prevention measures	IEC 62116
Safety requirements for secondary batteries and battery installations - Part 1: General safety information	IEC 62485-1
Safety requirements for secondary batteries and battery installations - Part 5: Safe operation of stationary lithium-ion batteries	IEC 62485-5
Electric vehicle conductive charging system - Part 1: General requirements	IEC 61851-1
Automatic electrical controls - Part 1: General requirements	IEC 60730-1
Secondary cells and batteries containing alkaline or other non- acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications	IEC 62619
Electrical energy storage (EES) systems – Part 1: Vocabulary	IEC 62933-1
Electrical energy storage (EES) systems – Part 2-1: Unit parameters and testing methods - General specification	IEC 62933-2
Electrical energy storage (EES) systems – Part 3-1: Planning and performance assessment of electrical energy storage systems - General specification	IEC 62933-3

Test Technology:	**Test Method(s) [1,3]:**
Electrical energy storage (EES) systems – Part 4-1: Guidance on environmental issues - General specification	IEC 62933-4
Electrical energy storage (EES) systems – Part 5-1: Safety considerations for grid-integrated EES systems – General specification	IEC 62933-5
Israeli Standards	
Audio/Video, Information and Communication Technology Equipment - Safety Requirement	SI 62368 Part 1

On the following products or types of products: Information Technology Equipment, Telecommunications Equipment, Office Equipment, Military Equipment, Medical Equipment, Power Generation Equipment, Household Appliances, Materials, Batteries, Aerospace Equipment, Audio/Visual equipment.: Permanence of Marking[2], Accessibility[2] , Creepage / Clearance / Distance Through Insulation (excluding CTI) [2], Stability[2], Steel Sphere Impact[2], Applied Force[2], Impact Hammer[2], Mold Stress, Ball Pressure, Acoustic Sound Pressure[2], Vibration[2], Bump, Drop[2], Strain Relief[2], Torque[2], Sound Level, Handle Loading[2], Liquid Overflow[2], Spillage[2], Liquid Leakage[2], Rain Test, Wall Mount, Rigidity[2], Cleaning[2], Push[2], Pull[2], Direct Plug-in Moment, Cord Tag Permanence, Flexing, Hot Wire Ignition, Coating Adhesion.

[1] 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 test method, per Annex A, Part C of A2LA's *R101 - General Requirements: Accreditation of Conformity Assessment Bodies*

[2] This laboratory performs field testing activities for this test

[3] 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.

[4]Exclusions:

The following exclusions apply to the standards listed above:

Standard	Clause	Test
60601-2-37	201.11.1.3.1.1	Temperature rise test - Simulate use
60601-1	8.8.4.2	Resistance to environmental stress
60601-1	9.5.2	Cathode ray tubes
60601-1	10.1	X-radiation
60601-1	10.4	Laser radiation
60601-1	11.2	Fire prevention
60601-1	A 10.4	Light emitting diodes (LEDs)
60601-1	G	Protection against hazards of ignition of flammable anaesthetic mixtures
60601-1	G.4.3	Prevention of electrostatic charges
60601-1	L	Insulated winding wires for use without interleaved insulation
60825-1	4.4	Lasers designed to function as conventional lamps – radiance measurement
60825-1	4.4	Lasers designed to function as conventional lamps – IEC 62471 series evaluation
61010-1	10.5.3 2	Insulating materials – Vicat
61010-1	12.2.1	Ionizing radiation
61010-1	12.3	UV Radiation
61010-1	12.4	Microwave Radiation
61010-1	12.5.2	Ultrasonic pressure
61010-1	12.6	Laser radiation
61010-1	13.2.3	High vacuum devices
61010-1	6.7.1.3	Test equipment for tracking index
61010-1	9.3.1 / 14.7	Flammability tests
61010-1	Annex H	Qualification of conformal coating for protection against pollution
60335-1	Annex E	Needle flame test
60335-1	22	Construction
60335-1	22	Construction
60335-1	24	Components
60335-1	30	Resistance to heat and fire
60335-1	30	Resistance to heat and fire
60335-1	32	Radiation, toxicity and similar hazards
60335-1	Annex F	Capacitors
60335-1	Annex U	Evaluation for remote communication through public networks
62368-1	Annex C	UV Radiation
62368-1	Annex E	Audio Amplifiers
62368-1	Annex H	Telephone ringing signals
62368-1	Annex M	Batteries
62368-1	Annex Q	Building Wiring

Accredited Laboratory

A2LA has accredited

EUROFINS ELECTRICAL AND ELECTRONIC TESTING NA, LLC

Littleton, MA

for technical competence in the field of

Mechanical 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 22nd day of July 2026

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0591.13
Valid to June 30, 2028

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