SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid To: June 30, 2028 Certificate Number: 0591.12

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 Electrical tests:

Test Technology:	**Test Method(s) [1,3]:**
Emissions	
Radiated and Conducted Emissions	47 CFR FCC Part 15B, (using ANSI C63.4:2014); 47 CFR FCC Part 18 (using FCC OET MP-5:1986); 47 CFR FCC Part 15C (using ANSI C63.10:2020); 47 CFR FCC Part 15E (using ANSI C63.10:2020 or FCC KDB 905462 D02 v02, April 8, 2016); 47 CFR FCC Part 15F (using ANSI C63.10:2020); 47 CFR FCC Parts 22, 24, 25, 27, 90, 95, 96, 97, and 101 (using ANSI C63.26:2015); ANSI C63.10:2013; ANSI C63.10:2020; ICES-001; ICES-003; CISPR 11; EN 55011; SANS 211; AS CISPR 11; CISPR 14-1; EN 55014-1; SANS 214-1; AS/NZS CISPR 14.1 *(excluding Click and Disturbance Power)*; CISPR 22; EN 55022; SANS 222; AS/NZS CISPR 22; CISPR 32; EN 55032; AS/NZS CISPR 32; VCCI-CISPR 32:2016; SANS 2332; IEC 62236-4
Harmonics	IEC 61000-3-2; EN 61000-3-2; AS/NZS 61000.3.2; SANS 61000-3-2; IEC 61000-3-12; EN 61000-3-12; SANS 61000-3-12
Flicker	IEC 61000-3-3; EN 61000-3-3; AS/NZS 61000.3.3; SANS 61000-3-3; IEC 61000-3-11; EN 61000-3-11; SANS 61000-3-11

Test Technology:	**Test Method(s) [1,3]:**
Immunity	
Electrostatic Discharge (ESD)	IEC 61000-4-2: 2008; EN 61000-4-2: 2009; AS/NZS 61000.4.2:2013
Radiated Immunity (RFI)	IEC 61000-4-3; EN 61000-4-3; AS/NZS 61000.4.3
Electrical Fast Transient / Burst (EFT)	IEC 61000-4-4; EN 61000-4-4; AS/NZS 61000.4.4
Surge	IEC 61000-4-5; EN 61000-4-5; AS/NZS 61000.4.5
Conducted Immunity	IEC 61000-4-6; EN 61000-4-6; AS/NZS 61000.4.6
Magnetic Immunity	IEC 61000-4-8; EN 61000-4-8; AS/NZS 61000.4.8
Voltage Dips and Interrupts	IEC 61000-4-11; EN 61000-4-11; IEC 61000-4-29; EN 61000-4-29
Radiated Fields in Close Proximity	IEC 61000-4-39; EN 61000-4-39
Product Family and Industry Specific Standards (includes Emissions and Immunity Tests and EN and IEC equivalents) [5]	ANSI C62.41; AS/NZS 3200.1.2; AS/NZS 61000.6.3; AS/NZS 61000.6.4; AS 62040.2; CISPR 14-2; SANS 214-2; AS/NZS CISPR 14.2; CISPR 16-2-1; SANS 216-2-1; AS/NZS CISPR 16.2.1; CISPR 16-2-3; SANS 216-2-3; AS/NZS CISPR 16.2.3; CISPR 24; SANS 224; AS/NZS CISPR 24; SI 961 Part 24; CISPR 35; EN 55035; AS/NZS CISPR 35; SANS 2335; AIM Standard 7351731: 2021-06-04; ETS 300 386-1; EN 300 386; EN 300 386-2; EN 50091-2; EN 50121-3-2; EN 55014-2; EN 55016-1-1; EN 55016-2-2; EN 55016-2-3; EN 55020; EN 55024; EN 55103-1; EN 55103-2; EN 60601-1-2; IEC 60601-1-2; IEC 60601-1-2:2020; SANS 60601-1-2; EN 60601-2-2; IEC 60601-2-2; EN 60601-2-24; IEC 60601-2-24;EN 60601-2-47; EN 61000-6-1; IEC 61000-6-1; SANS 61000-6-1; EN 61000-6-2; IEC 61000-6-2; SANS 61000-6-2; EN 61000-6-3; IEC 61000-6-3; SANS 61000-6-3; EN 61000-6-4; IEC 61000-6-4; AS/NZS 61000.6.4; SANS 61000-6-4; EN TS 61000-6-5; IEC/EN 61000-6-5; IEC/EN 61000-6-7; IEC 61131-2; EN 61326; SANS 61326; EN 61326-1; IEC 61326-1; SANS 61326-1; EN 61326-2-1; IEC 61326-2-1; SANS 61326-2-1; EN 61326-2-2; IEC 61236-2-2; SANS 61326-2-2; EN 61326-2-3; IEC 61326-2-3; SANS 61326-2-3; EN 61326-2-4; IEC 61326-2-4;

Test Technology:	**Test Method(s) [1,3]:**
Product Family and Industry Specific Standards (includes Emissions and Immunity Tests and EN and IEC equivalents) [5] (continued)	SANS 61326-2-4; EN 61326-2-5; IEC 61326-2-5; SANS 61326-2-5; EN 61326-2-6; IEC 61326-2-6; SANS 61326-2-6; EN 61326-3-1; IEC 61326-3-1; EN 62040-2; IEC 62040-2; EN 62040-3; IEC 62040-3; IEC TS 61000-6-5; IEEE 1613; IEEE C37.90.2:2004; UL 1449
Marine Standards (includes Emissions and Immunity Tests)	IEC 60945; EN 60945, IEC 60533; DNVGL Class Guideline 0339 November 2019; IACS UR E10 Rev.7, 2018; Lloyd's Register Type Approval System Test Specification Number 1, December 2020
Country Specific Standards	
Australia/New Zealand Radio Standards	AS/NZS 4268; Radiocommunications (Short Range Devices) Standard 2014; Radiocommunications (Low Interference Potential Devices) Class License 2000; Radiocommunications (Analogue Speech [Angle Modulated] Equipment) Standard 2014
Canada Radio Standards	RSS-GEN; RSS-111; RSS-112; RSS-117; RSS-123; RSS-125; RSS-127; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-137; RSS-139; RSS-141; RSS-142; RSS-170; RSS-181; RSS-182; RSS-192; RSS-194; RSS-195; RSS-196; RSS-197; RSS-199; RSS-210 (up to 40 GHz); RSS-213; RSS-215; RSS-216 (up to 40 GHz); RSS-220 (up to 40 GHz); RSS-222; RSS-236; RSS-238; RSS-243; RSS-247; RSS-287; RSS-288; RSS-310; ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024
Korea Technical Requirements for Radio and EMC	Regulations on Radio Equipment (Ordinance of MSIT No. 86, Jan 4, 2022); Unlicensed Radio Equipment Established Without Notice (MSIT Public Notification 2023-18, Jun 20, 2023; Technical Requirements for Radio Equipment for Telecommunication Services (RRA Public Notification 2022-15, Jul 29, 2022); Technical Requirements for the Human Protection Against Electromagnetic Waves (MSIT Public Notification 2019-4, Jan 16, 2019); Technical Requirements for Measurement of Electromagnetic Field Strength (RRA Public Notification 2023-11, Jun 30, 2023);

Test Technology:	**Test Method(s) [1,3]:**
Korea Technical Requirements for Radio and EMC (continued)	Conformity Assessment Test Methods for Radio Equipment: KS X 3123; Technical Requirements for Electromagnetic Compatibility (RRA Public Notification 2023-13, Jun 30, 2023); Test Methods for Electromagnetic Compatibility (RRA Announcement May 31, 2022); KS C 9811:2019; KS C IEC 60601-1-2:2020; KS C 9990:2017; KS C 9814-1:2022; KS C 9814-2:2022; KS C 9815:2023; KS C 9547:2020; KN 50; KN 51; KS X 3124:2020; KS X 3125:2020; KS X 3126:2020; KS X 3129:2020; KS X 3141:2015; KS C 9040-2:2017; KS C IEC 60947-1:2014; KS C IEC 60947-2:2019; KS C IEC 60947-4-1:2018; KS C 9832:2019; KS C 9835:2019; KS C 9800-3:2017; KS X 3140:2014; KS C 9610-6-1:2019; KS C 9610-6-2:2019; KS C 9610-6-3:2023; KS C 9610-6-4:2022
Radiocommunications EU RED Radio Standards (*excluding SAR*)	EN 300 220-1; EN 300 220-2; EN 300 220-3; EN 300 330-1; EN 300 330-2; EN 300 440-1; EN 300 440-2; EN 300 328; EN 301 893; EN 302 502; EN 301 908-1 to 13
EU RED EMC Standards	EN 301 489-01; EN 301 489-03; EN 301 489-17; EN 301 489-52
US FCC	47 CFR FCC Part 15B (using ANSI C63.4:2014); 47 CFR Part 18 (using FCC MP-5:1986); 47 CFR FCC Parts 15C/H (using ANSI C63.10:2020); 47 CFR FCC Part 15E (using ANSI C63.10:2020 or FCC KDB 905462 D02 v02, April 8, 2016); 47 CFR FCC Parts 22, (cellular), 24, 25, 27 (below 3 GHz), 90 (above 3 GHz), 95 (above 3 GHz), 96, 97 (above 3 GHz), and 101 (using ANSI/TIA-603-E and/or ANSI C63.26:2015)
RF Exposure (excluding SAR)	IEEE C95.3; FCC OET Bulletin 65; FCC OET Bulletin 65 Supplement C; EN 62311; IEC / EN 62479
Product Safety Standard [3, 4] **North American Standards** Panelboards	UL 67

Test Technology:	**Test Method(s) [1,3]:**
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
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]

Test Technology:	Test Method(s) [1,3]:
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
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

Test Technology:	Test Method(s) [1,3]:
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 1-2: General requirements for basic safety and essential performance. Collateral Standard: Electromagnetic disturbances	CSA C22.2 No. 60601-1-2
Medical electrical equipment- Part 1-6: General requirements for basic safety and essential performance – Collateral standard: Usability	CAN/CSA C22.2 No. 60601-1-6
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 device software - Software life cycle processes	CSA/CEI 62304

Test Technology:	Test Method(s) [1,3]:
Medical devices — Part 1: Application of usability engineering to medical devices	CSA 62366-1
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
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

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	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
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

Test Technology:	**Test Method(s) [1,3]:**
Medical electrical equipment – Part 1-6: General requirements for basic safety and essential performance – Collateral standard: Usability	IEC/EN 60601-1-6; IEC 60601-1-6 Edition 3.2 2020-07
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 device software — Software life cycle processes	IEC/EN 62304
Medical devices: Application of usability engineering to medical devices	IEC/EN 62366
Medical devices — Part 1: Application of usability engineering to medical devices	IEC/EN 62366-1
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
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

Test Technology:	Test Method(s) [1,3]:
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
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

Test Technology:	**Test Method(s) [1,3]:**
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
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

Test Technology:	Test Method(s) [1,3]:
Israeli Standards Audio/Video, Information and Communication Technology Equipment - Safety Requirement	SI 62368 Part 1

On the following products or types of products:

Power Input[2], Permanence of Marking[2], Accessibility[2], Permissibly Limits[2], Energy Hazard Measurement[2], SELV Circuits[2], TNV Limits[2], Limited Current[2], Capacitor Discharge / Voltage Limitation[2], Ring Signal, Humidity Conditioning, Creepage / Clearance / Distance Thru Insulation (excluding CTI) [2], Limited Power Measurement[2], Ground Bond / Earthing[2], Ground Continuity[2], Temperature[2], Stability[2], Applied Force[2], Steel Sphere Impact[2], Impact Hammer[2], Mold Stress, Battery Reverse Current[2], Ball Pressure, Leakage Current[2], Component Abnormal[2], Electric Strength[2], Impulse, Overvoltage, Acoustic Sound Pressure[2], 130mm / 20mm flame, Locked Rotor/Motor Armature[2], Vibration[2], Bump, Drop[2], Strain Relief[2], Torque[2], Insulation Resistance[2], Sound Level, Handle Loading[2], Liquid Overflow[2], Spillage[2], Liquid Leakage[2], Transformer Shorts / Overloads[2], Rain Test, Wall Mount, Voltage Surge, Functionality[2], Protective Impedance Abnormal, Capacitor Short Circuit Abnormal, Output Abnormal[2], Multi-Supply Abnormal[2], Cooling Abnormal[2], Heating Device Abnormal[2], Interlock Abnormal, Rigidity[2], Cleaning[2], Push[2], Pull[2], Direct Plug-in Moment, Starting Current, Component Short Circuit[2], Glow Wire, Cord Tag Permanence, Flexing, Hot Wire Ignition, Coating Adhesion, Short Circuit Withstand Test[2], Single Cell Failure Test[2], Large Scale Fire Test[2].

[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.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1:

Rule Subpart/Technology	**Test Method**	**Maximum Frequency (MHz)**
Unintentional Radiators		
Part 15B	ANSI C63.4:2014	40000
Industrial, Scientific, and Medical Equipment		
Part 18	FCC MP-5:1986	40000
Intentional Radiators		
Part 15C	ANSI C63.10:2020	40000

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1:		
Rule Subpart/Technology	**Test Method**	**Maximum Frequency (MHz)**
U-NII without DFS Intentional Radiators		
Part 15E	ANSI C63.10:2020	40000
U-NII with DFS Intentional Radiators		
Part 15E	FCC KDB 905462 D02 (v02), April 08, 2016	40000
UWB Intentional Radiators		
Part 15F	ANSI C63.10:2020	40000
White Space Device Intentional Radiators		
Part 15H	ANSI C63.10:2020	40000
Commercial Mobile Services (FCC Licensed Radio Service Equipment)		
Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; ANSI/TIA-102.CAAA-E; ANSI C63.26:2015	40000
General Mobile Radio Services (FCC Licensed Radio Service Equipment)		
Parts 22 (non-cellular), 90 (below 3 GHz), 95 (below 3 GHz), 97 (below 3 GHz), and 101 (below 3 GHz)	ANSI/TIA-603-E; ANSI/TIA-102.CAAA-E; ANSI C63.26:2015	40000
Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)		
Part 96	ANSI/TIA-603-E; ANSI/TIA-102.CAAA-E; ANSI C63.26:2015	40000
Maritime and Aviation Radio Services		
Parts 80 and 87	ANSI/TIA-603-E; ANSI C63.26:2015	40000
Microwave and Millimeter Bands Radio Services		
Parts 25, 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz), and 101	ANSI/TIA-603-E; ANSI/TIA-102.CAAA-E; ANSI C63.26:2015	40000
NOTE: Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories.		

[4] Exclusions:

The following exclusions apply to the standards listed above:

Standard	Clause	Test
IEC 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

[5] IEC TS 60601-4-2 used in support of Medical Device testing and should not be considered their own test methods.

Accredited Laboratory

A2LA has accredited

EUROFINS ELECTRICAL AND ELECTRONIC TESTING NA, LLC

Littleton, MA

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 22nd day of July 2026

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0591.12
Valid to June 30, 2028

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