



INTERNATIONAL
ACCREDITATION
SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest

CSA AMERICA TESTING & CERTIFICATION LLC

34 BUNSEN
IRVINE, CALIFORNIA 92618, U.S.A.

Testing Laboratory TL-268

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date November 25, 2025



International Accreditation Service
Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 101, Brea, California 92821, U.S.A. | www.iasonline.org

CSA AMERICA TESTING & CERTIFICATION LLC

www.csagroup.com

Contact Name John Sena

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Accredited to ISO/IEC 17025:2017

Effective Date November 25, 2025

Electrical	
ANSI AAMI ES60601-1:2005/(R)2012 and A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012 (Consolidated Text) Including Amendment 2 (2021)	Medical electrical equipment – Part 1: General requirements for basic safety and essential performance (IEC 60601-1:2005, MOD) [Including Amendment 2 (2021)]
ANSI AAMI HA60601-1-11:2015 [Including Amendment1 (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 (IEC 60601-1-11:2015 MOD) [Including Amendment 1(2021)]
ANSI AAMI MP80601-2-49	Medical electrical equipment – Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors
ANSI AAMI IEC 60601-1-8:2006 and A1:2012 [Including AMD 2:2021]	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 IEC 60601-1-12:2016 [Including AMD 1:2021]	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment [Including Amendment 1 (2001)]
ANSI AAMI IEC 60601-2-2 2017	Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories
ANSI Z80.36-2021	Ophthalmics – Light hazard protection for ophthalmic instruments
ANSI/CAN/UL 3741	Photovoltaic Hazard Control
ANSI/CAN/UL 8800	Standard for Safety Horticultural Lighting Equipment and Systems
ANSI/ISA S82.02.02	Safety requirements for electrical equipment for measurement, control & laboratory use

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CAN/CSA-C22.2 NO. 60335-1	Safety of household and similar appliances - part 1: general requirements (tri-national standard, with nmx-j-521/1-ance and UL 60335-1) (excluding clauses 19.11.4.1 and 19.11.4.2)
CAN/CSA C22.2 NO. 60601-1	Medical electrical equipment–part 1: general requirements for basic safety and essential performance
CAN/CSA C22.2 NO. 60601-1-1	Medical electrical equipment – part 1-1: general requirements for safety – collateral standard: safety requirements for medical electrical systems
CAN/CSA C22.2 NO. 60601-1-4	Medical electrical equipment – part 1-4: general requirements for safety; collateral standard: programmable electrical medical systems
CAN/CSA C22.2 NO. 60601-1-6	Medical electrical equipment – part 1-6: general requirements for basic safety and essential performance – collateral standard: usability
CAN/CSA C22.2 NO. 60601-1-8	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. 60601-1-11	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
CAN/CSA C22.2 NO. 60601-1-12	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environments
CAN/CSA C22.2 NO. 60601-2-2	Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories
CAN/CSA C22.2 NO. 60601-2-7	Medical electrical equipment – Part 2-7: Particular requirements for the safety of high-voltage generators of diagnostic X-ray generators
CAN/CSA C22.2 NO. 60601-2-10	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. 60601-2-12	Medical electrical equipment – part 2: particular requirements for the safety of lung ventilators for medical use
CAN/CSA C22.2 NO. 60601-2-18	Medical electrical equipment part 2: particular requirements for the safety of endoscopic equipment
CAN/CSA C22.2 NO. 60601-2-22	Medical electrical equipment – part 2: particular requirements for the safety of diagnostic and therapeutic laser equipment
CAN/CSA C22.2 NO. 60601-2-24	Medical electrical equipment – Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers
CAN/CSA C22.2 NO. 60601-2-26	Medical electrical equipment part 2: particular requirements for the safety of electroencephalographs
CAN/CSA C22.2 NO. 60601-2-31	Medical electrical equipment – part 2: particular requirements for the safety of external cardiac pacemakers with internal power source

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CAN/CSA C22.2 NO. 60601-2-35	Medical electrical equipment - Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads or mattresses and intended for heating in medical use
CAN/CSA C22.2 NO. 60601-2-37	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. 60601-2-49	Medical electrical equipment – Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors
CAN/CSA C22.2 NO. 61010-031	Safety requirements for electrical equipment for measurement, control and laboratory use—part 031: safety requirements for hand-held probe assemblies for electrical measurement and test
CAN/CSA C22.2 NO. 61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use – part 1: general requirements
CAN/CSA C22.2 NO. 61010-2-010	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-010: particular requirements for laboratory equipment for the heating of materials
CAN/CSA C22.2 NO. 61010-2-020	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-020: particular requirements for laboratory centrifuges
CAN/CSA C22.2 NO. 61010-2-030	Safety requirements for electrical equipment for measurement, control, and laboratory use – part 2-030: particular requirements for testing and measuring circuits
CAN/CSA C22.2 NO. 61010-2-051	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-051: particular requirements for laboratory equipment for mixing and stirring
CAN/CSA C22.2 NO. 61010-2-061	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-061: particular requirements for laboratory atomic spectrometers with thermal atomization and ionization
CAN/CSA C22.2 NO. 61010-2-081	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. 61010-2-101	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. 61010-2-201	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-201: particular requirements for control equipment
CAN/CSA C22.2 NO. 80601-2-12	Medical electrical equipment – Part 2-12: particular requirements for critical care ventilators
CAN/CSA C22.2 NO. 80601-2-35	Medical electrical equipment – Part 2-35: particular requirements for the basic safety and essential performance of heating devices using blankets, pads or mattresses and intended for heating in medical use
CAN/CSA C22.2 NO. 80601-2-49	Medical electrical equipment – Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors

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CAN/CSA C22.2 NO. 80601-2-55	Particular requirements for the basic safety and essential performance of respiratory gas monitors
CAN/CSA C22.2 NO. 80601-2-60	Medical electrical equipment – part 2-60: particular requirements for basic safety and essential performance of dental equipment
CAN/CSA C22.2 NO. 80601-2-61	Particular requirements for basic safety and essential performance of pulse oximeter equipment
CAN/CSA C22.2 NO. 80601-2-72	Medical electrical equipment – part 2-72: particular requirements for basic safety and essential performance of home healthcare environment ventilators for ventilator-dependent patients
CAN/CSA-C381.1	Test method for calculating the energy efficiency of single-voltage external ac-dc and ac-ac power supplies
CAN/CSA E60598-1	Luminaires - Part 1: General Requirements and tests
CAN/CSA E60598-2-4	Portable general purpose luminaires
CAN/CSA E60598-2-5	Luminaires – Part 2-5: Particular requirements - Floodlights
CAN/CSA E61347-1	Lamp control gear - Part 1: General and safety requirements
CSA C22.2 NO. 9	General requirements for luminaires
CSA C22.2 NO. 12	Portable luminaires
CSA C22.2 NO. 61	Household cooking ranges
CSA C22.2 NO. 64	Household cooking and liquid heating appliances
CSA C22.2 NO. 66.1	Low voltage transformers - part 1: general requirements (bi-National standard, with UL 5085-1)
CSA C22.2 NO. 66.2	Low voltage transformers – part 2: general purpose transformers (bi-national standard, with UL 5085-2)
CSA C22.2 NO. 66.3	Low voltage transformers - part 3: class 2 and class transformers (bi-national standard, with UL 5085-3)
CSA C22.2 NO. 68	Motor-operated appliances (household and commercial)
CSA C22.2 No. 89	Swimming-pool luminaires, submersible luminaires, and accessories
CSA C22.2 NO. 107.3	Uninterruptable power supplies
CSA C22.2 NO. 108	Liquid pumps
CSA C22.2 NO. 109	Commercial cooking appliances
CSA C22.2 NO. 120	Refrigeration equipment
CSA C22.2 No. 141	Emergency lighting equipment
CSA C22.2 No. 166	Stage and studio luminaires
CSA C22.2 NO. 195	Motor operated food processing appliances (household and commercial)
CSA C22.2 NO. 205	Signal equipment
CSA C22.2 NO. 207	Portable and Stationary Electric Signs and Displays

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CSA C22.2 NO. 223	Power supplies with extra-low-voltage class 2 outputs
CSA C22.2 NO. 243	Vacuum Cleaners, Blower Cleaners and Household Finishing Machines
CSA C22.2 NO. 250	Luminaires (tri-national standard, with UL 1598 and NMX-J-307/1-ANCE)
CSA C22.2 NO. 250.1	Retrofit kits for luminaire conversion
CSA C22.2 NO. 250.2	Lighting systems
CSA C22.2 NO. 250.5	Flashlights and Lanterns (Bi-national standard with UL 1576)
CSA C22.2 NO 250.13	Safety light emitting diode equipment for use in lighting products
CSA C22.2 NO. 250.570	Track lighting
CSA C22.2 NO. 250.7	Extra-low-voltage landscape lighting systems
CSA C22.2 NO. 280	Electric vehicle supply equipment (tri-national standard, with UL 2594 and NMX-J-677-ANCE-2013)
CSA/EN/IEC 60335-2-36	Household and similar electrical appliances – safety – part 2-36: particular requirements for commercial electric cooking ranges, hobs and hob elements
CSA/EN/IEC 60335-2-37	Household and similar electrical appliances – safety – part 2-37: particular requirements for commercial electric doughnut fryers and deep fat fryers
CSA/EN/IEC 60335-2-38	Household and similar electrical appliances – safety – part 2-38: particular requirements for commercial electric griddles and griddle grills
CSA/EN/IEC 60335-2-39	Household and similar electrical appliances – safety – part 2-39: particular requirements for commercial electric multi-purpose cooking pans
CSA/EN/IEC 60335-2-42	Household and similar electrical appliances – safety – part 2-42: particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens
CSA/EN/IEC 60335-2-47	Household and similar electrical appliances – safety – part 2-47: particular requirements for commercial electric boiling pan
CSA/EN/IEC 60335-2-48	Household and similar electrical appliances – safety – part 2-48: particular requirements for commercial electric grillers and toasters
CSA/EN/IEC 60335-2-49	Household and similar electrical appliances – safety – part 2-49: particular requirements for commercial electric appliances for keeping food and crockery warm
CSA/EN/IEC 60335-2-69	Household and similar electrical appliances – safety – part 2-69: particular requirements for wet and dry vacuum cleaners, including power brush, for commercial use
CSA/EN/IEC 60335-2-102	Household and similar electrical appliances – Safety – Part 2-102: Particular requirements for gas, oil and solid fuel burning appliances having electrical connections
CSA/EN/IEC 60825-1	Safety of laser products – part 1: Equipment classification and requirements
CSA/EN/IEC 61347-2-13	Lamp controlgear – Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
CSA/EN/IEC 62031	LED modules for general lighting - Safety specifications

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CSA/EN/IEC/UL 60065	Audio, video and similar electronic apparatus – safety requirements
CSA/EN/IEC/UL 60335-2-6	Household and similar electrical appliances – safety – part 2-6: particular requirements for stationary cooking ranges, hobs, ovens and similar appliances
CSA/EN/IEC/UL 60335-2-23	Household and similar electrical appliances - safety - part 2-23: particular requirements for appliances for skin or hair care
CSA/EN/IEC/UL 60335-2-79	Household and similar electrical appliances – safety – part 2-79: particular requirements for high pressure cleaners and steam cleaners
DS/EN 62471	Photobiological safety of lamps and lamp systems
EN 60335-1	Household and similar electrical appliances – safety – part 1: general requirements
EN 60335-2-75	Household and similar electrical appliances – safety – part 2-75: particular requirements for commercial dispensing appliances and vending machines
EN ISO 15004-2:2024	Ophthalmic instruments – Fundamental requirements and test methods – Part 2: Light hazard protection
EN/IEC 60598-1	Luminaires
EN/IEC 60598-2-1	Fixed general purpose luminaires
EN/IEC 60598-2-2	Recessed luminaires
EN/IEC 60598-2-4	Portable general purpose luminaires
EN/IEC 60598-2-5	Luminaries – Part 2-5: Particular requirements - Floodlights
EN/IEC 60598-2-8	Luminaries – Part 2-8: Particular requirements - Handlamps
EN/IEC 60598-2-10	Portable luminaires for children – Exclusion Cl. 10.6.4 and 10.6.8
EN/IEC 60598-2-18	Luminaires for swimming pools and similar applications
EN/IEC 60598-2-19	Air-handling luminaires
EN/IEC 61347-1	Lamp control gear - Part 1: General and safety requirements
EN/IEC 62301	Household electrical appliances - measurement of standby power
IEC 60335-1	Household and similar electrical appliances – safety – part 1: general requirements
IEC 60335-2-75	Household and similar electrical appliances – safety – part 2-75: particular requirements for commercial dispensing appliances and vending machines
IEC 61010-031	Safety requirements for electrical equipment for measurement, control and laboratory use–part 031: safety requirements for hand-held probe assemblies for electrical measurement and test
IEC 60601-1	Medical electrical equipment–part 1: general requirements for basic safety and essential performance
IEC 60601-1-1	Medical electrical equipment – part 1-1: general requirements for safety – collateral standard: safety requirements for medical electrical systems

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IEC 60601-1-4	Medical electrical equipment – part 1-4: general requirements for safety; collateral standard: programmable electrical medical systems
IEC 60601-1-6 Edition 3.2 2020-07 CONSOLIDATED VERSION	Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability
IEC 60601-1-8 Edition 2.2 2020-07 CONSOLIDATED VERSION	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 60601-1-10 Edition 1.2 2020-07 CONSOLIDATED VERSION	Medical electrical equipment - Part 1-10: General requirements for basic safety and essential performance - Collateral Standard: Requirements for the development of physiologic closed-loop controllers
IEC 60601-1-11 Edition 2.1 2020-07 CONSOLIDATED VERSION	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
IEC 60601-1-12 Edition 1.1 2020-07 CONSOLIDATED VERSION	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environments
IEC 60601-2-2 Edition 6.0 2017-03	Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories
IEC 60601-2-7	Medical electrical equipment – Part 2-7: Particular requirements for the safety of high-voltage generators of diagnostic X-ray generators
IEC 60601-2-10 Edition 2.1 2016-04	Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators
IEC 60601-2-12	Medical electrical equipment – Part 2: particular requirements for the safety of lung ventilators for medical use
IEC 60601-2-18: Edition 3.0 2009-08	Medical electrical equipment - Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment
IEC 60601-2-22 Edition 3.1 2012-10	Medical electrical equipment - Part 2-22: Particular requirements for basic safety and essential performance of surgical cosmetic therapeutic and diagnostic laser equipment
IEC 60601-2-24	Medical electrical equipment – Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers
IEC 60601-2-26	Medical electrical equipment part 2: particular requirements for the safety of electroencephalographs
IEC 60601-2-31 Edition 2.1 2011-09	Medical electrical equipment Part 2-31: Particular requirements for the basic safety and essential performance of external cardiac pacemakers with internal power source

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IEC 60601-2-35 Edition 2.0 2020-09	Medical electrical equipment - Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads and mattresses and intended for heating in medical use
IEC 60601-2-37 Edition 2.1 2015	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment
IEC 61010-1 Edition 3.1 2017-01 CONSOLIDATED VERSION	Safety requirements for electrical equipment for measurement control and laboratory use - Part 1: General requirements
IEC 61010-2-010	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 61010-2-020	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-020: particular requirements for laboratory centrifuges
IEC 61010-2-030	Safety requirements for electrical equipment for measurement, control, and laboratory use – part 2-030: particular requirements for testing and measuring circuits
IEC 61010-2-051	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-051: particular requirements for laboratory equipment for mixing and stirring
IEC 61010-2-061	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-061: particular requirements for laboratory atomic spectrometers with thermal atomization and ionization
IEC 61010-2-081	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 61010-2-101	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-101: particular requirements for in vitro diagnostic (ivd) medical equipment
IEC 61010-2-201	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-201: particular requirements for control equipment
IEC 62471	Photobiological safety of lamps and lamp systems
IEC 62471-6:2022	Photobiological safety of lamps and lamp systems – Part 6: Ultraviolet lamp products
IEC 62471-7:2023	Photobiological safety of lamps and lamp systems – Part 7: Light sources and luminaires primarily emitting visible radiation
IEC 80601-2-35	Medical electrical equipment – Part 2-35: particular requirements for the basic safety and essential performance of heating devices using blankets, pads or mattresses and intended for heating in medical use
IEC 80601-2-49	Medical electrical equipment – Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors

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IEC 80601-2-60 Edition 2.0 2019-06	Medical electrical equipment - Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment
ISO 3744	Acoustics – determination of sound power levels and sound energy levels of noise sources using sound pressure – engineering methods for an essentially free field over a reflecting plane
ISO 80601-2-12 Second edition 2020-02	Medical electrical equipment – Part 2-12: particular requirements for critical care ventilators
ISO 80601-2-55 Second edition 2018-02	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors
ISO 80601-2-61 Second edition 2017-12 (Corrected version 2018-02)	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment
ISO 80601-2-72 First edition 2015-04-11	Medical electrical equipment - Part 2-72: Particular requirements for basic safety and essential performance of home healthcare environment ventilators for ventilator-dependent patients
ISO 80601-2-72 Second edition 2023-06	Medical electrical equipment - Part 2-72: Particular requirements for basic safety and essential performance of home healthcare environment ventilators for ventilator-dependent patients
NMX-J-677-ANCE-2013	Electric vehicles - equipment supply
NSF/ANSI 2	Food equipment
NSF/ANSI 3	Commercial warewashing equipment (exclude steam type dishwasher)
NSF/ANSI 4	Commercial cooking, rethermalization, and powered hot food holding and transportation equipment
NSF/ANSI 5	[Historical standard] water heaters, hot water supply boilers, and heat recovery equipment
NSF/ANSI 7	Commercial refrigerators and freezers
NSF/ANSI 8	Commercial powered food preparation equipment
NSF/ANSI 18	Manual food and beverage dispensing equipment
UL 22	Standard for Amusement and Gaming Machines
UL 48	Standard for electric signs
UL 153	Standard for portable electric luminaires
UL 197	Commercial cooking appliances
UL 506	Standard for specialty transformers
UL 676	Underwater Luminaires and Submersible Junction Boxes
UL 751	Vending machines
UL 763	Standard for motor operated commercial food preparing machines
UL 778	Standard for motor-operated water pumps

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UL 858	Standard for household electric ranges
UL 924	Emergency Lighting and Power Equipment
UL 1017	Vacuum Cleaners, Blower Cleaners and Household Finishing Machines
UL 1026	Standard for household electric cooking and food serving appliances
UL 1069	Hospital signaling and nurse call equipment (medical)
UL 1081	Standard for swimming pool pumps, filters, and chlorinators
UL 1310	Standard for class 2 power units
UL 1573	Stage and Studio Luminaires and Connector Strips
UL 1574	Standard for track lighting systems
UL 1576	Flashlights and Lanterns
UL 1598	Luminaires
UL 1598C	Standard for light-emitting diode (LED) retrofit luminaire conversion kits
UL 1647	Standard for motor-operated massage and exercise machines
UL 1778	Uninterruptible power supplies
UL 1838	Low voltage landscape lighting systems
UL 1993	Self-ballasted lamps and lamp adapters
UL 2108	Low Voltage Lighting Systems
UL 2703	Mounting systems, mounting devices, clamping/retention devices, and ground lugs for use with flat-plane photovoltaic modules and panels Sections: 13, 14, 18, 21, 23 (only)
UL 3703	Solar trackers
UL 5085-1	Low voltage transformers - part 1: general requirements
UL 5085-2	Low voltage transformers - part 2: general purpose transformers
UL 5085-3	Low voltage transformers - part 3: class 2 and class 3 transformers
UL 60335-1	Household and similar electrical appliances – safety – part 1: general requirements
UL 61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use – part 1: general requirements
UL 61010-2-010	Safety requirements for electrical equipment for measurement, control and laboratory use - part 2-010: particular requirements for laboratory equipment for the heating of materials
UL 61010-2-020	Safety requirements for electrical equipment for measurement, control and laboratory use - part 2-020: particular requirements for laboratory centrifuges
UL 61010-2-030	Safety requirements for electrical equipment for measurement, control, and laboratory use - part 2-030: particular requirements for testing and measuring circuits

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UL 61010-2-051	Safety requirements for electrical equipment for measurement, control and laboratory use - part 2-051: particular requirements for laboratory equipment for mixing and stirring
UL 61010-2-061	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-061: particular requirements for laboratory atomic spectrometers with thermal atomization and ionization
UL 61010-2-081	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 61010-2-101	Safety requirements for electrical equipment for measurement, control and laboratory use - part 2-101: particular requirements for in vitro diagnostic (ivd) medical equipment
UL 61010-2-201	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-201: particular requirements for control equipment
UL 8750	Standard for light emitting diode (LED) equipment for use in lighting products
Electronic	
CSA/EN/IEC/UL 60950-1	Safety of information technology equipment
CSA/EN/IEC/UL 60950-21	Information technology equipment – safety – part 21: remote power feeding
CSA/EN/IEC/UL 60950-22	Information technology equipment – safety – part 22: equipment to be installed outdoors
CSA/EN/IEC/UL 60950-23	Information technology equipment – safety – part 23: large data storage equipment
CSA/EN/IEC/UL 62368-1	Safety of information & communication technology equipment
IEC 62368-3	Audio/video, information and communication technology equipment - Part 3: Safety aspects for DC power transfer through communication cables and ports
QCVN 132:3022/BTTTT	National technical regulation on electrical safety requirements for telecommunication and information terminal equipment
Environmental	
IEC 60529	Degrees of protection provided by enclosures (IP Code)
Energy Efficiency	
Appendix Z to Subpart B of Part 430 -Uniform Test Method for Measuring the Energy Consumption of External Power Supplies	
EPRI generalized test protocol for calculating the energy efficiency of internal Ac-Dc and Dc-Dc power supplies	
EPRI generalized test protocol for calculating the energy efficiency of internal Ac-Dc and Dc-Dc power supplies (for products that have internal, multi-output, or single output with integral cooling power supplies)	
IEC 62301: household electrical appliances – measurement of standby power	



SCOPE OF ACCREDITATION

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IEC 62301: household electrical appliances – measurement of standby power test method for calculating the energy efficiency of single-voltage external Ac-Dc and Ac-Ac power supplies	
IEC 62301: household electrical appliances – measurement of standby power EPRI generalized test protocol for calculating the energy efficiency of Internal Ac-Dc and Dc-Dc power supplies	
Heating/Cooling	
ANSI Z21.1	Household cooking gas appliances
ANSI Z21.5.1	Gas clothes dryers, volume I, type I clothes dryers
ANSI Z21.5.2	Gas clothes dryers, volume II, type 2 clothes dryers
ANSI Z21.10.1	Gas water heaters, volume I, storage water heaters with input ratings of 75,000 Btu per hour or less
ANSI Z21.10.3	Gas-fired water heaters, volume III, storage water heaters with input ratings above 75,000 Btu per hour, circulating and instantaneous
ANSI Z21.11.1	Heaters, vented room, Volume 1 (includes supplement ANSI Z21.11.1a-1985)
ANSI Z21.11.2	Gas-fired room heaters, volume II, unvented room heaters
ANSI Z21.13	Gas-fired low pressure steam and hot water boilers
ANSI Z21.17	Domestic gas conversion burners
ANSI Z21.42	Gas-fired illuminating appliances
ANSI Z21.47	Gas-fired central furnaces
ANSI Z21.50	Vented gas fireplaces
ANSI Z21.56	Gas-fired pool heaters
ANSI Z21.57	Recreational vehicle cooking gas appliances
ANSI Z21.58	Outdoor cooking gas appliances
ANSI Z21.60	Decorative gas appliances for installation in solid-fuel burning fireplaces
ANSI Z21.63	Portable type gas camp heaters
ANSI Z21.72	Portable type gas camp stoves
ANSI Z21.73	Portable type gas camp lights
ANSI Z21.76	Gas-fired unvented catalytic room heaters for use with liquefied petroleum (LP) gases
ANSI Z21.84	Standard for manually lighted, natural gas, decorative gas appliances for installation in solid-fuel burning fireplaces
ANSI Z21.86	Vented gas-fired space heating appliances
ANSI Z21.88	Vented gas fireplace heaters
ANSI Z21.89	Outdoor cooking specialty gas appliances
ANSI Z21.91	Ventless firebox enclosures for gas-fired unvented decorative room heaters
ANSI Z21.96	Portable water heaters for outdoor use



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ANSI Z21.97	Outdoor decorative gas appliances
ANSI Z21.103	Unvented portable gas camp heaters
ANSI Z83.4	Non-recirculating direct gas-fired industrial air heaters
ANSI Z83.7	Gas-fired construction heaters
ANSI Z83.8	Gas unit heaters, gas packaged heaters, gas utility heaters, and gas-fired duct furnaces
ANSI Z83.11	Gas food service equipment
ANSI Z83.19/CSA 2.35	Gas-fired high-intensity infrared heaters
ANSI Z83.20	Gas-fired low-intensity infrared heaters
ANSI Z83.21	Commercial dishwashers
ANSI Z83.25	Direct gas-fired process air heaters
ANSI Z83.26	Gas-fired outdoor infrared patio heaters
ANSI/IAS LC2	Direct gas-fired circulating heaters for agricultural animal confinement buildings
CSA 1.1	Household cooking gas appliances
CSA 1.4	Refrigerators using gas fuel
CSA 1.6	Outdoor cooking gas appliances
CSA 1.8	Gas food service equipment
CSA 1.18	Outdoor cooking specialty gas appliances
CSA 2.3	Gas-fired central furnaces
CSA 2.6	Gas unit heaters, gas packaged heaters, gas utility heaters, and gas-fired duct furnaces
CSA 2.7	Domestic gas conversion burners
CSA 2.14	Gas-fired construction heaters
CSA 2.22	Vented gas fireplaces
CSA 2.26	Decorative gas appliances for installation in solid-fuel burning fireplaces
CSA 2.32	Vented gas-fired space heating appliances
CSA 2.33	Vented gas fireplace heaters
CSA 2.34	Gas-fired low-intensity infrared heaters
CSA 2.37	Gas-fired outdoor infrared patio heaters
CSA 2.41	Outdoor decorative gas appliances
CSA 3.7	Non-recirculating direct gas-fired industrial air heaters
CSA 3.8	Gas-fired equipment for drying farm crops
CSA 3.19	Direct gas-fired process air heaters

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CSA 4.1	Gas water heaters, volume I, storage water heaters with input ratings of 75,000 Btu per hour or less
CSA 4.3	Gas-fired water heaters, volume III, storage water heaters with input ratings above 75,000 Btu per hour, circulating and instantaneous
CSA 4.7	Gas-fired pool heaters
CSA 4.9	Gas-fired low pressure steam and hot water boilers
CSA 7.1	Gas clothes dryers, volume I, type I clothes dryers
CSA 7.2	Gas clothes dryers, volume II, type 2 clothes dryers
CSA 11.1	Portable type gas camp lights
CSA 11.2	Portable type gas camp stoves
CSA 11.3	Portable type gas camp heaters
CSA 11.6	Portable water heaters for outdoor use
CSA B140.0	Oil-burning equipment: general requirements
CSA B140.7	Oil-burning equipment; steam and hot-water boilers
CSA B140.8	Portable industrial oil-fired heaters
CSA C22.2 NO. 168	Commercial dishwashers
UL 147	Standard for hand-held torches for fuel gases
UL 307B	Standard for gas-burning heating appliances for manufactured homes and recreational vehicles
UL 733	Oil-fired air heaters and direct-fired heaters
Cybersecurity	
CSA/ANSI T200	Evaluation of software development and cybersecurity programs
EN 18031-1	Common security requirements for radio equipment – Part 1: Internet connected radio equipment
EN 18031-2	Common security requirements for radio equipment – Part 2: Radio equipment processing data, namely internet connected radio equipment, childcare radio equipment, toys radio equipment and wearable radio equipment
EN 18031-3	Common security requirements for radio equipment – Part 3: Internet connected radio equipment processing virtual money or monetary value
ETSI EN 303 645	Cybersecurity for consumer internet of things: Baseline requirements
NIST IR 8259A	Core device cybersecurity capability baseline
NIST IR 8259B	IoT Non-technical supporting capability core baseline
NIST IR 8425	Profile of the IoT core baseline for consumer IoT products
UL 2941	UL outline of investigation for cybersecurity of distributed energy and inverter-based equipment

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CFR: Code of Federal Regulations

CSA: Canadian Standards Association

EPRI: Electric Power Research Institute

IEC: International Electrotechnical Commission

ISA: Instrumentation, Systems, and Automation Society

NMX: Mexican Standards

NSF: National Sanitation Foundation

UL: Underwriters Laboratories

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