

SCOPE OF ACCREDITATION

CSA INTERNATIONAL - RICHMOND (VANCOUVER)
13799 Commerce Parkway
Richmond, BC
V6V 2N9

Accredited Laboratory No. 134
(Conforms with requirements of CAN-P-4E (ISO/IEC 17025:2005))

CONTACT: Mr. Terry Nagy
TEL: (604) 273-4581
FAX: (604) 273-5815
EMAIL: terry.nagy@csa-international.org

CLIENTS SERVED: All interested parties

FIELDS OF TESTING: Electrical/Electronic, Mechanical/Physical

ISSUED ON: 2010-03-18

VALID TO: 2013-12-07

ELECTRICAL PRODUCTS AND ELECTRONIC PRODUCTS

Communications Equipment and Systems:

Broadcasting

CSA C22.2 98 Construction and Test of Power-Operated Radio Transmitters

Components and Assemblies

CSA C22.2 8 Electromagnetic Interference (EMI) Filters
Except for:
Clause 6.14, Limited Short Circuit Test
Clause 6.15, Short Circuit Withstand Test

Power and Signal Distribution Equipment

(Wiring and Related Products)

CAN/CSA C22.2 158	Terminal Blocks
CAN/CSA C22.2 85	Rigid PVC Boxes and Fittings
CSA C22.2 18	Outlet Boxes, Conduit Boxes, and Fittings
CSA C22.2 182.1	Industrial Type, Special Use Attachment Plugs, Receptacles, and Connectors
CSA C22.2 182.2	Industrial Locking Type, Special Use Attachment Plugs, Receptacles, and Connectors
CSA C22.2 182.3	Special Use Attachment Plugs, Receptacles, and Connectors
CSA C22.2 182.4	Plugs, Receptacles, and Connectors for Communication Systems
CSA C22.2 21	Cord Sets and Power-Supply Cords
CSA C22.2 26	Construction and Test of Wireways, Auxiliary
CSA C22.2 40	Cutout, Junction, and Pull Boxes
CSA C22.2 42	General Use Receptacles, Attachment Plugs, and Similar Devices
CSA C22.2 43	Lampholders

Radio, Television and Electronic Apparatus

CAN/CSA 22.2 No. 60065	Audio, Video and Similar Electronic Apparatus - Safety Requirements Except for: Clause 6.2, Laser Radiation Measurement Test Clause 7.2, Softening Temperature Test Clauses 12.1.2, Vibration Test Clauses 18.2.2, 18.2.3, Implosion and Mechanical Strength Tests
CSA C22.2 1	Audio, Video, and Similar Electronic Equipment
CSA C22.2 118	Construction and Test of Picture Machines and Appliances
CSA C22.2 6	Electric Clocks
CSA E60065	Audio, Video and Similar Apparatus - Safety Requirements

Telecommunications Equipment

CAN/CSA C22.2 950	Safety of Information Technology Equipment, Including Electrical Business Equipment Except for: Clause 4.4.8, Flammable Liquids
-------------------	---

Components and Assemblies:

Rectifiers

CAN/CSA C22.2 107.2	Battery Chargers
CSA C22.2 107.1	General Use Power Supplies
CSA C22.2 107.3	Uninterruptible Power Systems

Switches and Controls

CSA C22.2 14	Industrial Control Equipment Except for: Clause 6.10 Short Circuit Calibration of Test circuits Clause 6.11 Short Circuit Overload Relays and Equipment incorporating Overload Relays Clause 6.12 Controllers intended for use on Circuits Capable of Delivering High Fault Currents Clause 6.13 Controllers Intended for Group Installation Clause 6.14 Instantaneous Trip Circuit Breakers
CSA C22.2 55	Special Use Switches

Transformers

CAN/CSA E61558-1	Safety of power transformers, power supply units and similar - Part 1: General requirements and tests (Maximum 10 kVA 3Phase, 600 Volts Except for: 27.5 Resistance to Tracking (Annexe G)
CAN/CSA E61558-2-1	Safety of power transformers, power supply units and similar Part 2-1: Particular requirements for separating transformers for general use.
CAN/CSA E61558-2-13	Safety of power transformers, power supply units and similar devices Part 2-13: Particular requirements for auto-transformers for general use
CAN/CSA E61558-2-2	Safety of power transformers, power supply units and similar Part 2-2: Particular requirements for control transformers
CAN/CSA E61558-2-4	Safety of power transformers, power supply units and similar Part 2-4: Particular requirements for isolating transformers for general use
CAN/CSA E61558-2-5	Safety of power transformers, power supply units and similar Part 2-5: Particular requirements for shaver transformers and shaver supply units
CAN/CSA E61558-2-6	Safety of power transformers, power supply units and similar Part 2-6: Particular requirements for safety isolating transformers for general use
CSA C22.2 13	Transformers for Luminous-Tube Signs, Oil- or Gas-Burner Ignition Equipment, Cold-Cathode Interior Lighting
CSA C22.2 173	Transformers for Toy and Hobby Use
CSA C22.2 223	Power Supplies with Extra-Low-Voltage Class 2 Outputs
CSA C22.2 66	Specialty Transformers

CSA E742	Isolating Transformers and Safety Isolating Transformers - Requirements Except for: IEC 529 Clause 14.2.5, IPX5 Test Clause 14.2.6, IPX6 Test Clause 13.3.3, Vibration Test Clause 26.5, Tracking Test Clauses 15.2-15.4, Mechanical Strength Test
----------	---

Electrical Appliances:

Cooking and Liquid Heating

CAN/CSA C22.2 64	Household Cooking and Liquid-Heating Appliances
CAN/CSA E335-1 Ed. 2	Safety of Household and Similar Electrical Appliances, Part 1: General Requirements Except for: Clause 22.23, Insulation Integrity Test Clause 30.5, Resistance to Tracking Test, Appendix N, Proof Tracking Test
CAN/CSA E335-1 Ed. 3	Safety of Household and Similar Electrical Appliances, Part 1: General Requirements Except for: Annex J: Coated Printed Circuit Boards Clause 15.1.1, Rain Tests, IPX 5, IPX6; Clause 50.3, Proof Tracking Test
CAN/CSA E335-2-12 Part 2	Warming Plates and Similar Appliances
CAN/CSA E335-2-13 Part 13:	Frying Pans, Deep Fat Fryers, and Similar Appliances
CAN/CSA E335-2-14	Part 2: Electric Kitchen Machines Except for: Clause 25.6, Power Supply Cord Tests
CAN/CSA E335-2-15	Part 2: Appliances for Heating Liquids Except for: Clause 22.101, Gasket Seals and Plug Tests
CAN/CSA E335-2-37	Part 2: Commercial Electric Deep Fat Fryers
CAN/CSA E335-2-38	Part 2: Commercial Electric Griddles and Griddle Grills
CAN/CSA E335-2-39	Part 2: Commercial Electric Multi-Purpose Cooking Pans
CAN/CSA E335-2-41	Part 2: Electric Pumps - for Liquids at Maximum Temperature 35 degrees C
CAN/CSA E335-2-43	Part 2: Clothes Dryers and Tower Rails
CAN/CSA E335-2-47	Part 2: Commercial Electric Boiling Pans
CAN/CSA E335-2-48	Part 2: Commercial Electric Grillers and Toasters
CAN/CSA E335-2-49	Part 2: Commercial Electric Hot Cupboards
CAN/CSA E335-2-51	Part 2: Stationary Circulation Pumps for Heating and Service Water Installations
CAN/CSA E335-2-63	Part 2: Commercial Electric Water Boilers and Liquid Heaters

CAN/CSA E335-2-64	Part 2: Commercial Electric Kitchen Machines
CAN/CSA E335-2-9 Part 2:	Toasters, Grills, Roasters and Similar Appliances
CAN/CSA E60335-1 Ed. 4	Safety of Household and Similar Electrical Appliances, Part 1: General Requirements Except for: Clause 29.2 Comparative Tracking Index and Annex N Proof Tracking
CSA C22.2 109	Commercial Cooking Appliances
CSA C22.2 195	Motor Operated Food Processing Appliances (Household and Commercial)

Heating, Refrigerating and Air Conditioning

CAN/CSA C22.2 120	Refrigeration Equipment Except for: Clause 6.9, Gasket Deterioration Test Clause 6.27, Limited Short Circuit Test
CAN/CSA C22.2 88	Construction and Test of Industrial Heating Equipment
CAN/CSA E335-2-30	Part 2: Room Heaters
CAN/CSA E335-2-45	Part 2: Portable Electric Heating Tools and Similar Appliances
CAN/CSA E342-1-95	Fans and Regulators for Household and Similar Purposes
CSA C22.2 113	Fans and Ventilators
CSA C22.2 15	Electrically Heated Warming Pads
CSA C22.2 46	Electric Air-Heaters

Lighting and Fixtures

CAN/CSA C22.2 74	Equipment for Use with Electric Discharge Lamps
CSA C22.2 12	Portable Luminaires
CSA C22.2 141	Unit Equipment for Emergency Lighting
CSA C22.2 207	Portable and Stationary Electric Signs and Displays
CSA C22.2 250	Luminaires
CSA C22.2 37	Christmas Tree and other Decorative Lighting Outfits
CSA C22.2 89	Swimming-Pool Luminaires, Submersible Luminaires and Accessories

Miscellaneous Electrical Appliances (Specify)

CAN/CSA C22.2 189	High-Voltage Insect Killers
CAN/CSA C22.2 191	Engine Heaters and Battery Warmers
CAN/CSA C22.2 218.1	Spas, Hot Tubs and Associated Equipment
CAN/CSA C22.2 218.2	Hydromassage Bathtub Appliances Except for: Clause 6.8.2, Flow Rate Suction Covers and Openings
CSA C22.2 128	Vending Machines
CSA C22.2 200	Electric Waterbed Heater Systems
CSA C22.2 221	Electrically Heated Hobby and Educational Type Kilns

Motor Operated Electrical Appliances

CAN/CSA C22.2 147	Motor-Operated Gardening Appliances
CAN/CSA C22.2 68	Motor-Operated Appliances (Household and Commercial)
CAN/CSA C22.2 71.1	Portable Electric Tools
CAN/CSA E335-2-10	Part 2: Floor Treatment Machines and Wet Scrubbing Machines
CAN/CSA E335-2-16	Part 2: Food Waste Disposers
CAN/CSA E335-2-18	Part 2: Guide for Preparing Safety Requirements for Battery-Powered Motor-Operated Appliances and Their Charging and Battery Assemblies
CAN/CSA E335-2-19	Part 2: Battery-Powered Shavers, Hair Clippers and Similar Appliances and Their Charging and Battery Assemblies
CAN/CSA E335-2-2	Part 2: Vacuum Cleaners and Water Suction Cleaning Appliances
CAN/CSA E335-2-20	Part 2: Battery-Powered Toothbrushes and Their Charging and Battery Assemblies
CAN/CSA E335-2-23	Part 2: Appliances for Skin or Hair Care
CAN/CSA E335-2-26	Part 2: Clocks
CAN/CSA E335-2-28	Part 2: Sewing Machines
CAN/CSA E335-2-29	Part 2: Battery Chargers
CAN/CSA E335-2-32	Part 2: Massage Appliances
CAN/CSA E335-2-52	Part 2: Oral Hygiene Appliances Connected to the Mains Supply through a Safety Isolating Transformer
CAN/CSA E335-2-54	Part 2: General Purpose Cleaning Appliances
CAN/CSA E335-2-55	Part 2: Electrical Appliances for Use with Aquariums and Garden Ponds
CAN/CSA E335-2-67	Part 2: Floor Treatment and Floor Cleaning Machines, for Industrial and Commercial Use
CAN/CSA E335-2-69	Part 2: Wet and Dry Vacuum Cleaners, Including Power Brush, for Industrial and Commercial Use
CAN/CSA E335-2-8	Part 2: Electric Shavers, Hair Clippers and Similar Appliances
CSA C22.2 243	Vacuum Cleaners and Blower Cleaners
CSA C22.2 6	Electric Clocks
CSA C22.2 71.2	Electric Bench Tools

Equipment, Miscellaneous

Enclosures

CAN/CSA C22.2 94	Special Purpose Enclosures Except for: Clause 6.5 Atomized Washer Type 5 Clause 6.6 Atomized Types 12 and 12K Clause 6.7 Sleet and Formation of Ice
------------------	--

Clause 6.8.2 Hosedown (Types 4 and 4X Enclosures)
Clause 6.10 Oil Eclusion
Clause 6.12 Metal Protection
Appendix A2 Setteling Dust Indoor
Appendix A3 Circulating Dust Indoor
Appendix A4 Windblown Dust Outdoor

Grounding

CSA C22.2 0.4 Bonding and Grounding of Electrical Equipment

(Protective Grounding)

Panels

CSA C22.2 29 Panelboards and Enclosed Panelboards

Information Processing and Business Equipment:

(Generally Applicable Tests)

CAN/CSA C22.2 234 Safety of Component Power Supplies
CAN/CSA C22.2 60950-1 Information Technology Equipment Safety - Part 1:
General Requirements
Except for: Clause 4.3.12, Flammable Liquids
CAN/CSA C22.2 60950-21 Information Technology Equipment - Safety - Part 21:
Remote Power Feeding
CAN/CSA C22.2 60950-22 Information Technology Equipment Safety Part 22:
Equipment to be Stored Outdoors
CAN/CSA C22.2 60950-23 Information Technology Equipment Safety Part 23:
Large Data Storage Equipment

Photocopying and Related Equipment

C22.2 118 Construction and Test of Picture Machines and Appliances

Materials:

Plastics

CAN/CSA C22.2 0.17 Evaluation of Properties of Polymeric Materials
Except for: Clause 4.3.2 High Current Arc Ignition
Clause 4.3.3 High Voltage Arc Resistance
Clause 4.3.4 Radiant Panel
Clause 5.2 Sharpy Impact (ASTM E163)
Clause 5.9 Weathering (Oxygen Bomb)
Clause 5.9.2 Weather-O-Meter

Clause 6.4 High Voltage Low Current Dry Arc Resistance
Clause 6.5 Comparative Tracking Index
Clause 7 Relative Thermal Index

Medical Devices:

- CAN/CSA C22.2 No. 601.2.10 Nerve and Muscle Stimulators
CAN/CSA C22.2 No. 601.2.14 Electroconvulsive Therapy Equipment
CAN/CSA C22.2 No. 601.2.25 Electrocardiographs
CAN/CSA C22.2 No. 601.2.32 Associated Equipment of X-Ray Equipment
CAN/CSA C22.2 No.601.1 Medical Electrical Equipment, Part - 1: General Requirements for Safety
Except for:
Clause 25.2, Vacuum Tube Implosion Test
Clause 36, EMC Tests, Reference IEC 601-1-2, Appendix 2
Clause 40.1, AP and APG Tests
Clause 40.3, Low Energy Test
Clauses 40.4, External Ventilation and Pressure Tests
Clause 40.5, Enclosure Test
Clauses 41.1, 41.3, 41.5, Temperature, Low Energy, Humidification Tests
Clauses 45.2, 45.7, Pressure Tests
Clause 59.2, Protection c
- CAN/CSA C22.2 No.601.2.10 Nerve and Muscle Stimulators
CAN/CSA C22.2 No.60601-1-1 Medical Electrical Equipment, General Requirements for Safety
CAN/CSA C22.2 No.60601-2-12 Lung Ventilators - Critical Care Ventilators
CAN/CSA C22.2 No.60601-2-16 Haemodialysis, Haemodiafiltration and Haemofiltration Equipment
CAN/CSA C22.2 No.60601-2-18 Endoscopic Equipment
CAN/CSA C22.2 No.60601-2-2 High Frequency Surgical Equipment
CAN/CSA C22.2 No.60601-2-22 Diagnostic and Therapeutic Laser Equipment
CAN/CSA C22.2 No.60601-2-24 Infusion Pumps and Controllers
CAN/CSA C22.2 No.60601-2-26 Electroencephalographs
CAN/CSA C22.2 No.60601-2-27 Electrocardiographic Monitoring Equipment
Except for: Clause 50: Accuracy of Operative Data
CAN/CSA C22.2 No.60601-2-30 Automatic Cycling Non-Invasive Blood Pressure Monitoring Equipment
CAN/CSA C22.2 No.60601-2-34 Invasive Blood Pressure Monitoring Equipment
CAN/CSA C22.2 No.60601-2-37 Ultrasonic Medical Diagnostic and Monitoring Equipment
CAN/CSA C22.2 No.60601-2-4 Cardiac Defibrillators
CAN/CSA C22.2 No.60601-2-40 Electromyographs and Evoked Response Equipment
Except for: Clause 51.1.04: Limitation of visual stimulator output accuracy parameters
CAN/CSA C22.2 No.60601-2-46 Operating Tables
CAN/CSA C22.2 No.60601-2-47 Ambulatory Electrocardiographic Systems
CAN/CSA C22.2 No.60601-2-49 Multifunction Patient Monitoring Equipment

CAN/CSA C22.2 No.60601-2-50 Infant Phototherapy Equipment

Except for: Clause 33: Infrared Radiation

Clause 34: Ultraviolet Radiation

Clause 45.103: Oxygen Concentration Measurements

Clause 50: Accuracy of Operating Data

Clause 52.101: Abnormal Operation

CAN/CSA C22.2 No.60601-2-7 High-Voltage Generators of Diagnostic X-Ray Generators

Motors, Generators, and Machines:

Complete Unit

CSA C22.2 100	Motors and Generators (Maximum Limit 5 HP, 18000 rpm, 125 in.lbs, 600 Volts AC, 250 Volts DC)
CSA C22.2 77	Motors with Inherent Overheating Protection

Scientific Instruments: (For biological, chemical electrical, mechanical optical and physical examination)

(Complete Units)

CAN/CSA C22.2 No. 1010.1	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements Except for: Clause 12.3 UV Radiation Clause 12.4 Microwave Radiation Clause 12.6, Laser Sources Clause 13.2.3 Implosion of Cathode Ray Tubes
CAN/CSAC22.2 No. 61010-031:07	Hand-Held Probe Assemblies for Electrical Measurements and Tests
CAN/CSAC22.2 No. 61010-032:04	Hand-Held and Hand-Manipulated Current Sensors for Electrical Test and Measurement
CAN/CSAC22.2 No. 61010-1-04:	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements (Adopted IEC 61010-1:2001, MOD) Except for: Clause 12.3 UV Radiation Clause 12.4 Microwave Radiation Clause 12.6, Laser Sources Clause 13.2.3 Implosion of Cathode Ray Tubes
CSA C22.2 151	Laboratory Equipment
CSA C22.2 231	CSA Safety Requirements for Electrical and Electronic Measuring and Test Equipment

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Occupational Health and Safety:

Warning Devices

CSA C22.2 205 Signal Equipment

MACHINERY

Boilers, Pressure Vessels and Piping:

Pumps and Related Equipment

CAN/CSA C22.2 108 Liquid Pumps
CSA C22.2 142 Process Control Equipment

MARKETPLACE PRODUCTS-CONSUMER AND BUSINESS

Furniture and Consumer Articles:

Hazardous Products

CSA C22.2 149 Electrically Operated Toys

Tools

CSA C22.2 122 Hand-Held Electrically Heated Tools
CSA C22.2 73 Construction and Test of Electrically-Equipped Machine
Tools

Notes:

CAN-P-4E (ISO/IEC 17025): General Requirements for the Competence of Testing and Calibration Laboratories (ISO/IEC 17025-2005)

S. Cross, Director, Conformity Assessment

Date: 2010-03-18

Number of Scope Listings: 151
SCC 1003-15/189
Partner File #0
Partner: None