



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **UNDERWRITERS LABORATORIES OF CANADA INC.**

1040 PARSONS ROAD, SOUTHWEST  
EDMONTON, ALBERTA T6X 0J4, CANADA

### **Testing Laboratory TL-904**

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 March 28, 2023



A handwritten signature in black ink, reading "Raj Nathan".

**President**

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## UNDERWRITERS LABORATORIES OF CANADA INC.

[www.canada.ul.com](http://www.canada.ul.com)

**Contact Name** Gunsimar Paintal

**Contact Phone** +1-416 288 2217

*Accredited to ISO/IEC 17025:2017*

*Effective Date March 28, 2023*

<b>Environmental</b>	
CSA C22.2 No. 94.1	Enclosures for Electrical Equipment, non-environmental considerations cl: 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 8.11
CSA C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations cl: 8.1, 8.3, 8.4.1.2, 8.4.2.2.2, 8.6, 8.10, 8.11, 8.12, 8.13.3, 8.13.4, 8.14, 8.15
CSA C22.2 NO. 60529	Degrees of Protection Provided by Enclosures Cl: 13.2, 13.3, 13.4, 13.5, 14.2.3, 14.2.4, 14.2.5, 14.2.6, 14.2.7, 14.2.8
IEC 60529	Degrees of Protection Provided by Enclosures Cl: 13.2, 13.3, 13.4, 13.5, 14.2.3, 14.2.4, 14.2.5, 14.2.6, 14.2.7, 14.2.8
UL 50	Enclosures for Electrical Equipment, non-environmental considerations cl: 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 8.11
UL 50E	Enclosures for Electrical Equipment, Environmental Considerations cl: 8.1, 8.3, 8.4.1.2, 8.4.2.2.2, 8.6, 8.10, 8.11, 8.12, 8.13.3, 8.13.4, 8.14, 8.15
<b>Electrical</b>	
ANSI/CAN/UL 2808	Standard for Safety - Energy Monitoring Equipment
CAN/CSA C22.2 No. 107.2	Battery Chargers cl. 6.3, 6.4.2, 6.4.3, 6.4.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 6.11, 6.12, 6.13, 6.14, 6.15, 6.16.1, 6.16.2, 6.17, 6.19, 6.21, 6.22, 9.4.2, 9.4.3, 9.4.4, 9.4.5, 9.4.7
CAN/CSA C22.2 No. 60950-1	Information Technology Equipment – Safety – Part 1: General Requirements cl. 1.6.2, 1.7.11, 2.1.1.1, 2.1.1.7, 2.2.3, 2.3, 2.6.3.4, 2.8.5, 2.8.6, 2.8.7, 2.9, 2.10.2, 2.10.3.9, 2.10.8, 2.10.9, 3.2.6, 4.1, 4.2, 4.2.5, 4.2.7, 4.2.10, 4.3.2, 4.3.6, 4.3.8, 4.3.10, 4.4.1, 4.5.2, 4.5.5, 4.6, 4.6.5, 5.1, 5.2, 6.2.2.1, 6.3, Annex B, Annex C, Annex F, Annex K, Annex L
CAN/CSA C22.2 No. 61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirement cl. 5.3, 6.2.2, 6.2.3, 6.2.3, 6.3, 6.7, 6.8, 6.8.3.3, 6.10.2.2, 7.2, 7.3.4, 7.4, 7.5, 7.6, 8.2.1, 8.2.2, 8.3, 9.4, 10.1, 10.4, 10.4.3, 10.2, 10.5, 11.3, 11.4, 11.7, 14.3, 14.4, 15.3

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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 equipment having testing or measuring circuits
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
CSA C22.2 No. 14	Industrial Control Equipment cl. 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 6.11, 6.13, 6.14, 6.15.3, 6.15.4, 6.15.5, 6.15.6, 6.15.7, 6.16, 6.17, 6.18, 6.19, 6.20, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26
CSA C22.2 No. 29	Panelboards and enclosed panelboards cl. 7.1, 7.2, 7.4, 7.5, 7.10, 7.11
CSA C22.2 No.107.1	Power conversion equipment cl. 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 6.12, 6.13, 6.15, 6.16, 6.17, 6.18, 6.19, 6.20, 6.21, 6.22, 8.4.2, 8.4.3, 8.4.4, 8.4.5, 8.4.6
CSA C22.2 No. 223	Power supplies with extra-low-voltage Class 2 outputs cl. 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 6.11, 6.12, 6.13, 6.14, 6.15, 6.16, 6.17, 6.18
CSA C22.2 No. 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements
IEC 60950-1	Information Technology Equipment - Safety - Part 1: General Requirements cl. 1.6.2, 1.7.11, 2.1.1.1, 2.1.1.7, 2.2.3, 2.3, 2.6.3.4, 2.8.5, 2.8.6, 2.8.7, 2.9, 2.10.2, 2.10.3.9, 2.10.8, 2.10.9, 3.2.6, 4.1, 4.2, 4.2.5, 4.2.7, 4.2.10, 4.3.2, 4.3.6, 4.3.8, 4.3.10, 4.4.1, 4.5.2, 4.5.5, 4.6, 4.6.5, 5.1, 5.2, 6.2.2.1, 6.3, Annex B, Annex C, Annex F, Annex K, Annex L
IEC 61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirement cl. 5.3, 6.2.2, 6.2.3, 6.2.3, 6.3, 6.7, 6.8, 6.8.3.3, 6.10.2.2, 7.2, 7.3.4, 7.4, 7.5, 7.6, 8.2.1, 8.2.2, 8.3, 9.4, 10.1, 10.4, 10.4.3, 10.2, 10.5, 11.3, 11.4, 11.7, 14.3, 14.4, 15.3
IEC 61010-2-030	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-030: Particular requirements for equipment having testing or measuring circuits
IEC 61010-2-201	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-201: particular requirements for control equipment
IEC 62368-1	Audio/video, information and communication technology equipment – Part 1: Safety requirements
UL 67	Standard for safety – Panelboards cl. 21, 22.2, 22.3, 23, 24, 26, 27
UL 508	Industrial Control Equipment cl. 7.7, 7.17, 9, 10, 45, 46, 47, 48, 50, 51, 52, 53, 57, 58, 59, 60, 61, 62,

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	63, 64, 65, 66, 67, 83.1, 84, 85, 86, 87.1, 88, 90, 91.1, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 107, 111, 112, 117, 118, 119, 120, 121, 122, 122.4, 123, 124, 124.1.2, 124.2, 124.3, 124.4, 124.5, 124.6, 132, 133, 134, 135, 136.3, 141, 142, 143, 144, 145, 146, 151, 152, 157, 158, 159, 160, 165, 166, 171, 172, 173, 174, 179, 180, 181, 182, 183, 184, 190, 191, 192, 198, 199, 200, 201, 202, 203, 212, 213, 214, 215, 216, 217, 218, 229
UL 1012	Standard for Power units other than Class 2 cl. 40, 41, 42, 73.1, 43.1, 43.2, 44, 45, 46, 47, 48, 78, 49, 50, 51, 52, 53, 54, 56, 57, 65.1, 77.1, 77.2, 78, 83, 84, 85, 86, 91.2, 92.2, 97.1, 97.2, 97.3, 97.4
UL 1310	Standard for safety for Class 2 Power Units cl. 26, 27, 28, 29, 30, 32, 31, 33, 34.1, 34.2, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 64.2, 64.3, 64.4, 70, 77.2, 87.1, 87.2, 87.3, 95, 96
UL 1564	Industrial Battery Chargers cl. 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42.2, 42.3, 42.4, 43, 44, SA7
UL 1741	Inverters, Converters, Controllers and Interconnection System Equipment for use with Distributed Energy Resources cl. 45, 46, 47, 48.2, 48.4, 50.2, 50.3, 50.4, 50.5, 50.6, 50.8, 51, 52, 53, 54, 55, 60, 61, 62, 63, 64.2, 64.3, 76, 77, 78, 79, 80.2, 80.3, 80.4
UL 60950-1	Information Technology Equipment – Safety – Part 1: General Requirements cl. 1.6.2, 1.7.11, 2.1.1.1, 2.1.1.7, 2.2.3, 2.3, 2.6.3.4, 2.8.5, 2.8.6, 2.8.7, 2.9, 2.10.2, 2.10.3.9, 2.10.8, 2.10.9, 3.2.6, 4.1, 4.2, 4.2.5, 4.2.7, 4.2.10, 4.3.2, 4.3.6, 4.3.8, 4.3.10, 4.4.1, 4.5.2, 4.5.5, 4.6, 4.6.5, 5.1, 5.2, 6.2.2.1, 6.3, Annex B, Annex C, Annex F, Annex K, Annex L
UL 61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirement cl. 5.3, 6.2.2, 6.2.3, 6.2.3, 6.3, 6.7, 6.8, 6.8.3.3, 6.10.2.2, 7.2, 7.3.4, 7.4, 7.5, 7.6, 8.2.1, 8.2.2, 8.3, 9.4, 10.1, 10.4, 10.4.3, 10.2, 10.5, 11.3, 11.4, 11.7, 14.3, 14.4, 15.3
UL 61010-2-030	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-030: Particular requirements for equipment having testing or measuring circuits
UL 61010-2-201	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-201: particular requirements for control equipment
UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements
<b>Hazardous Locations</b>	
CAN/CSA C22.2 No. 157	Intrinsically safe and non-incendive equipment for use in hazardous locations cl. 6.2, 6.3, 6.4, 6.5, 6.8, 6.9 (6.9.2 Excluded), 6.10, 6.11, 6.13, 6.14
CAN/CSA C22.2 No. 60079-0	Explosive Atmospheres – Part 0: Equipment – General Requirements

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	cl. 17.2.1, 25, 26.4.2, 26.4.3, 26.4.5, 26.5.1, 26.5.2, 26.6, 26.8, 26.9, 26.12, 26.13, 26.14, 26.15, 26.16
CAN/CSA C22.2 No. 60079-1	Explosive Atmospheres – Part 1: equipment protection by flameproof enclosure "d" cl. 15.2.3.2, 15.4.2, C.3.1, C.3.2, C.3.3.1, C.3.3.2
CAN/CSA-C22.2 No. 60079-7	Explosive atmospheres – Part 7: Equipment protection by increased safety "e" cl. 4.2.3.4, 4.2.3.5, 4.2.3.6, 4.3, 4.4, 4.8, 4.10, 5.3.4, 5.3.5.4.2, 5.3.5.5, 5.3.7, 6.1, 6.2.4, 6.3.2, 6.3.3, 6.3.4, 6.3.4.1, 6.3.4.2.1, 6.3.7, 6.3.8, 6.6.2, 6.9, 6.10, A.3, B.2, B.3, B.4.2, H.6, I.1.
CAN/CSA-C22.2 No. 60079-11	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic safety "i" cl. 10.1, 10.2, 10.3, 10.4, 10.5.3, 10.5.4, 11.6, 10.6.1, 10.6.2, 10.6.3, 10.7, 10.9, 10.10, 10.11, Annex B, Annex C
CAN/CSA C22.2 No. 60079-15	Explosive atmospheres – Part 15: Equipment protection by type of protection "n" cl. 11.2, 11.2.1, 11.2.2, 11.2.3, 11.3.2.1
CAN/CSA C22.2 No. 60079-18	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m" cl. 8.1.1, 8.1.2, 8.2.2, 8.2.3, 8.2.4, 8.2.5, 8.2.6, 8.2.7, 8.2.8
CAN/CSA C22.2 No. 60079-31	Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure "t"
CSA C22.2 No. 25-1	Enclosures for use in class II, division 1, groups E, F, and G hazardous locations cl. 7.3, 7.4, 7.5
CSA C22.2 No. 30	Explosion-proof equipment cl. 8.2, 8.6, 8.7, 8.10, 8.12.2, 8.13.3
CSA C22.2 No. 137	Electric luminaires for use in hazardous locations cl. 4.5.2, 4.5.3, 5.7.2, 5.7.5, 7.3.1, 7.3.2, 7.3.3, 7.3.4, 8.3.1, 8.3.2, 9.10, 9.11, 9.12, 9.13, 9.14
CSA C22.2 No. 213	Nonincendive electrical equipment for use in class I and II, division 2 and class III, divisions 1 and 2 hazardous (classified) locations cl. 8.2, 10, 11, 13.2, 15.3, 15.4, 15.6, 16.2, 16.3, 16.4
EN 60079-0	Explosive Atmospheres – Part 0: Equipment – General Requirements cl. 17.2.1, 25, 26.4.2, 26.4.3, 26.4.5, 26.5.1, 26.5.2, 26.6, 26.8, 26.9, 26.12, 26.13, 26.14, 26.15, 26.16
EN 60079-1	Explosive Atmospheres – Part 1: equipment protection by flameproof enclosure "d" cl. 15.2.3.2, 15.4.2, C.3.1, C.3.2, C.3.3.1, C.3.3.2
EN 60079-7	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

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	cl. 4.2.3.4, 4.2.3.5, 4.2.3.6, 4.3, 4.4, 4.8, 4.10, 5.3.4, 5.3.5.4.2, 5.3.5.5, 5.3.7, 6.1, 6.2.4, 6.3.2, 6.3.3, 6.3.4, 6.3.4.1, 6.3.4.2.1, 6.3.7, 6.3.8, 6.6.2, 6.9, 6.10, A.3, B.2, B.3, B.4.2, H.6, I.1.
EN 60079-11	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic safety "i" cl. 10.1, 10.2, 10.3, 10.4, 10.5.3, 10.5.4, 10.6, 10.6.1, 10.6.2, 10.6.3, 10.7, 10.9, 10.10, 10.11, Annex B, Annex C
EN 60079-15	Explosive atmospheres – Part 15: Equipment protection by type of protection "n" cl. 11.2, 11.2.1, 11.2.2, 11.2.3, 11.3.2.1
EN 60079-18	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m" cl. 8.1.1, 8.1.2, 8.2.2, 8.2.3, 8.2.4, 8.2.5, 8.2.6, 8.2.7, 8.2.8
EN 60079-31	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-0	Explosive Atmospheres – Part 0: Equipment – General Requirements cl. 17.2.1, 25, 26.4.2, 26.4.3, 26.4.5, 26.5.1, 26.5.2, 26.6, 26.8, 26.9, 26.12, 26.13, 26.14, 26.15, 26.16
IEC 60079-1	Explosive Atmospheres – Part 1: equipment protection by flameproof enclosure "d" cl. 15.2.3.2, 15.4.2, C.3.1, C.3.2, C.3.3.1, C.3.3.2
IEC 60079-7	Explosive atmospheres – Part 7: Equipment protection by increased safety "e" cl. 4.2.3.4, 4.2.3.5, 4.2.3.6, 4.3, 4.4, 4.8, 4.10, 5.3.4, 5.3.5.4.2, 5.3.5.5, 5.3.7, 6.1, 6.2.4, 6.3.2, 6.3.3, 6.3.4, 6.3.4.1, 6.3.4.2.1, 6.3.7, 6.3.8, 6.6.2, 6.9, 6.10, A.3, B.2, B.3, B.4.2, H.6, I.1
IEC 60079-11	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic safety "i" cl. 10.1, 10.2, 10.3, 10.4, 10.5.3, 10.5.4, 11.6, 10.6.1, 10.6.2, 10.6.3, 10.7, 10.9, 10.10, 10.11, Annex B, Annex C
IEC 60079-15	Explosive atmospheres – Part 15: Equipment protection by type of protection "n" cl. 11.2, 11.2.1, 11.2.2, 11.2.3, 11.3.2.1
IEC 60079-18	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m" cl. 8.1.1, 8.1.2, 8.2.2, 8.2.3, 8.2.4, 8.2.5, 8.2.6, 8.2.7, 8.2.8
IEC 60079-31	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
UL 823	Electric heaters for use in hazardous (classified) locations cl. 22, 24, 25, 26, 27, 28, 29, 30, 31.2, 31.3, 31.4, 32.4.2, 34, 36, 37, 50.4
UL 844	Luminaires for Use in Hazardous (Classified) Locations Cl. 25, 28, 29A, 30, 32.1, 32.2, 32.3, 34, 35.4.2, 42 (exclude 42.3), 48 (exclude 48.16), 49, 62 (exclude 62.2), 65, 66, 67, 68, 69, 70, 71

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UL 913	Intrinsically safe apparatus and associated apparatus for use in class I, II, and III; division1 and 2; hazardous (classified) locations cl. 8, 9
UL 1203	Explosion proof and dust-ignition proof electrical equipment for use in hazardous (classified) locations cl. 20, 22, 25.1, 25.2, 26, 28, 30, 31, 32, 33.4.2, 41.3, 55, 57, 623, 3, 86.6, 86.7, 88, 89, 101, 122, 123, 124, 125, 126, 130, 135, 136, 141, 142, 143, 144, 145, 150
UL 60079-0	Explosive Atmospheres – Part 0: Equipment – General Requirements cl. 17.2.1, 25, 26.4.2, 26.4.3, 26.4.5, 26.5.1, 26.5.2, 26.6, 26.8, 26.9, 26.12, 26.13, 26.14, 26.15, 26.16
UL 60079-1	Explosive Atmospheres – Part 1: equipment protection by flameproof enclosures, cl. 15.2.3.2, 15.4.2, C.3.1, C.3.2, C.3.3.1, C.3.3.2
UL 60079-7	Explosive atmospheres – Part 7: Equipment protection by increased safety “e” cl. 4.2.3.4, 4.2.3.5, 4.2.3.6, 4.3, 4.4, 4.8, 4.10, 5.3.4, 5.3.5.4.2, 5.3.5.5, 5.3.7, 6.1, 6.2.4, 6.3.2, 6.3.3, 6.3.4, 6.3.4.1, 6.3.4.2.1, 6.3.7, 6.3.8, 6.6.2, 6.9, 6.10, A.3, B.2, B.3, B.4.2, H.6, I.1
UL 60079-11	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic safety “i” cl. 10.1, 10.2, 10.3, 10.4, 10.5.3, 10.5.4, 11.6, 10.6.1, 10.6.2, 10.6.3, 10.7, 10.9, 10.10, 10.11, Annex B, Annex C
UL 60079-15	Explosive atmospheres – Part 15: Equipment protection by type of protection “n” cl. 11.2, 11.2.1, 11.2.2, 11.2.3, 11.3.2.1
UL 60079-18	Explosive atmospheres – Part 18: Equipment protection by encapsulation “m” cl. 8.1.1, 8.1.2, 8.2.2, 8.2.3, 8.2.4, 8.2.5, 8.2.6, 8.2.7, 8.2.8
UL 60079-31	Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t”
UL 121201	Nonincendive electrical equipment for use in class I and II, division 2 and class III, divisions 1 and 2 hazardous (classified) locations cl. 8.2, 10, 11, 13.2, 15.3, 15.4, 15.6, 16.2, 16.3, 16.4