CSA C22.2 No. 62368-1:14
(IEC 62368-1:2014, MOD)
National Standard of Canada
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CSA C22.2 No. 62368-1:14
Audio/video, information and communication technology equipment — Part 1: Safety requirements

(IEC 62368-1:2014, MOD)

Standards Council of Canada
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Note: *For brevity, this Standard will be referred to as "CAN/CSA-C22.2 No. 62368-1" throughout.*

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This standard is based on IEC 62368-1, Edition 2 (2014).

Prepared by
International Electrotechnical Commission

Reviewed by

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AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT – Part 1: Safety requirements

1 Scope

This part of IEC 62368 is applicable to the safety of electrical and electronic equipment within the field of audio, video, information and communication technology, and business and office machines with a RATED VOLTAGE not exceeding 600 V. This standard does not include requirements for performance or functional characteristics of equipment.

NOTE 1 Examples of equipment within the scope of this standard are given in Annex A.

NOTE 2 A RATED VOLTAGE of 600 V is considered to include equipment rated 400/690 V.

This part of IEC 62368 is also applicable to:

– components and subassemblies intended for incorporation in this equipment. Such components and subassemblies need not comply with every requirement of the standard, provided that the complete equipment, incorporating such components and subassemblies, does comply;

– external power supply units intended to supply other equipment within the scope of this part of IEC 62368;

– accessories intended to be used with equipment within the scope of this part of IEC 62368.

This part of IEC 62368 does not apply to power supply systems which are not an integral part of the equipment, such as motor-generator sets, BATTERY backup systems and distribution transformers.

This part of IEC 62328 specifies SAFEGUARDS for ORDINARY PERSONS, INSTRUCTED PERSONS, and SKILLED PERSONS. Additional requirements may apply for equipment that is clearly designed or intended for use by children or specifically attractive to children.

NOTE 3 In Australia, the work conducted by an INSTRUCTED PERSON or a SKILLED PERSON may require formal licensing from regulatory authorities.

This standard assumes an altitude of 2 000 m unless specified otherwise by the manufacturer.

This part of IEC 62368 does not apply to equipment to be used in wet areas. Additional requirements may apply.

Additional requirements for equipment intended for outdoor installation are given in IEC 60950-22.

This part of IEC 62368 does not address:

– manufacturing processes except safety testing;

– injurious effects of gases released by thermal decomposition or combustion;

– disposal processes;

– effects of transport (other than as specified in this standard);

– effects of storage of materials, components, or the equipment itself;

– the likelihood of injury from particulate radiation such as alpha particles and beta particles;

– the likelihood of thermal injury due to radiated or convected thermal energy;

– the likelihood of injury due to flammable liquids;

– the use of the equipment in oxygen-enriched or EXPLOSIVE atmospheres;

– exposure to chemicals other than as specified in Clause 7;

– electrostatic discharge events;

– environmental aspects;

– requirements for functional safety.

NOTE 4 For specific functional and software safety requirements of electronic safety-related systems (for example, protective electronic circuits), see IEC 61508-1.

1DV.1 DC *Modify Clause 1 by adding the following text after the third paragraph:*

Battery backup systems that are not an integral part of stationary equipment, such as provided in separate cabinets, are subject to the appropriate standard for battery backup systems, such as UL 1973, Batteries for Use in Light Electric Rail (LER) Applications and Stationary Applications.

NOTE See Figures 1.1 and 1.2 of UL 1973 for more information on independent electric energy storage systems (EESS) covered by UL 1973, which can consist of both low voltage (class ES or ES2) and high voltage (class ES3) subsystems, battery management, thermal management, and related features and safeguards. When interconnected with AV, IT, and CT Equipment, and typically used in conjunction with an uninterruptible power supply (UPS), such EESS typically serve as a short-term substitution of the mains supply during power outages and similar disturbances.

1DV.2 DE *Modify Clause 1 by replacing the seventh paragraph with the following:*

Additional requirements for information and communication technology equipment intended for outdoor installation are given in CSA/UL 60950-22. Additional requirements for audio/video equipment intended for outdoor installation are given in the relevant requirements in CAN/CSA C22.2 No. 60065 or UL 60065.

1DV.3 DR *Modify Clause 1 by adding the following text:*

1DV.3.1 This standard also is applicable to equipment designed to be installed in accordance with the Canadian Electrical Code, Part I, CSA C22.1-12; Canadian Electrical Code, (CEC) Part II, General Requirements, CAN/CSA C22.2 No. 0-10; the National Electrical Code, NFPA 70-2014; and the National Electrical Safety Code, IEEE C2-2012.