



# Electrical/Electronics

## New Standards & Editions

**C22.2 No. 107.1-01, 3rd edition**  
*General Use Power Supplies* . . . . . \$95

This standard applies to ac and dc type power supplies, including rack-mounted and modular units, with all of the following characteristics:

- of dry or liquid-filled construction
- with a rated voltage not exceeding 600 V
- for commercial, industrial, and residential indoor and outdoor use in nonhazardous locations in accordance with the rules of the *Canadian Electrical Code, Part I*.

These power supplies may include battery-charging functions.

**C22.2 No. 108-01, 4th edition**  
*Liquid Pumps* . . . . . \$80

This standard applies to motor-operated liquid pump units, for use in nonhazardous, indoor, outdoor (exposed), and submerged locations, and designed to be used in accordance with the rules of the *Canadian Electrical Code, Part I*.

This standard applies to the following pumps:

- pumps for either permanent or cord-connection to the source of supply
- cord- and plug-connected pumps
- component-type pump units intended to be built into equipment covered by another standard of the *Canadian Electrical Code, Part II*.

This standard does not apply to pumps for hazardous locations or pumps required to handle flammable liquids, such as gasoline pumps.

**CAN/CSA-E60335-2-6-01, 2nd edition (bilingual)**  
*Safety of Household and Similar Electrical Appliances—Part 2: Particular Requirements for Stationary Cooking Ranges, Hobs, Ovens and Similar Appliances*  
(Adopted CEI/IEC 60335-2-6:1997, 4th edition, 1997-05, including Amendment 1:2000, with Canadian deviations) . . . . . \$115

This standard deals with the safety of stationary electric cooking ranges, hobs, ovens and similar appliances for household use, with a rated voltage of not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

Examples of appliances within the scope of this standard include the following:

- stationary grills
- stationary griddles
- pyrolytic self-cleaning ovens
- induction hobs
- steam ovens
- the electrical part of appliances supplied with energy other than electricity.

**CAN/CSA-E60335-2-32-01, 2nd edition (bilingual)**  
*Safety of Household and Similar Electrical Appliances—Part 2: Particular Requirements for Massage Appliances*  
(Adopted CEI/IEC 335-2-32:1993, 3rd edition, 1993-12, including Amendment 1:1999) . . . . . \$40

This standard deals with the safety of electric massage appliances for household and similar purposes, with a rated voltage of not more than 250 V for single phase appliances and 480 V for other appliances.

Examples of appliances within the scope of this standard include the following:

- hand-held massagers
- foot massagers
- massage belts
- massage pads
- massage chairs
- massage beds.

Appliances not intended for normal household use but that nevertheless may be a source of danger to the public, such as appliances intended to be used by laypeople in shops, in light industry and on farms, are within the scope of this standard. Examples of such appliances are those used in beauty parlours and fitness centres.

## Nouvelles parutions en français

**CAN/CSA-E60335-2-6-01, 2<sup>e</sup> édition (bilingue)**  
*Sécurité des appareils électrodomestiques et analogues—Partie 2 : Règles particulières pour les cuisinières, les tables de cuisson, les fours et appareils fixes analogues*  
(norme CEI/IEC 60335-2-6:1997 adoptée, 4<sup>e</sup> édition, 1997-05, y compris l'amendement 1:2000, et les exigences propres aux Canada) . . . . . 115 \$

Cette norme traite de la sécurité des cuisinières, tables de cuisson, fours électriques fixes et appareils analogues pour usages domestiques, dont la tension assignée n'est pas supérieure à 250 V pour les appareils monophasés raccordés entre une phase et le neutre, et à 480 V pour les autres appareils.



## Nouvelles parutions (suite)

Comme exemples d'appareils compris dans le domaine d'application de la présente norme on peut citer :

- les grilles fixes ;
- les grills par contact fixes ;
- les fours autonettoyants par pyrolyse ;
- les tables de cuisson à induction ;
- les fours à vapeur ;
- la partie électrique des appareils alimentés avec une énergie autre que l'électricité.

**CAN/CSA-E60335-2-32-01, 2<sup>e</sup> édition (bilingue)**  
*Sécurité des appareils électrodomestiques et analogues—*  
*Partie 2 : Règles particulières pour les appareils de*  
*massage* (norme CEI/IEC 335-2-32:1993 adoptée,  
 3<sup>e</sup> édition, 1993-12, y compris  
 l'amendement 1:1999) . . . . . 40 \$

Cette norme traite de la sécurité des appareils électriques de massage pour usages domestiques et analogues et dont la tension assignée n'est pas supérieure à 250 V pour les appareils monophasés et 480 V pour les autres appareils.

Comme exemples d'appareils entrant dans le domaine d'application de cette norme on peut citer :

- les appareils de massage portatifs ;
- les appareils de massage des pieds ;
- les ceintures de massage ;
- les coussins de massage ;
- les chaises de massage ;
- les lits de massage.

Les appareils non destinés à un usage domestique normal, mais qui néanmoins peuvent constituer une source de danger pour le public, tels que les appareils destinés à être utilisés par des usagers non avertis dans des magasins, chez des artisans et dans des fermes, sont compris dans le domaine d'application de la présente norme. Comme exemples de tels appareils on peut citer les appareils utilisés dans les salons de beauté et les centres de mise en forme.

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## Amendments

**C22.2 No. 55-M1986**  
*Special Use Switches*

Amendment of Clause 1.2 (c).

**C22.2 No. 123-96**  
*Aluminum Sheathed Cables*

Amendment of the Contents, Clauses 4.6.2, 4.6.3.1, and 6.8, and Tables 6 and 12. Addition of Clauses 4.6.3.3, 6.15, and 6.16. Deletion of Clause 5.1.1.4 (c).

**C22.2 No. 203.1-94**  
*Manufactured Wiring Systems*

Amendment of Clause 6.2.2. Addition of Clauses 6.2.3 and 6.2.4.

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## Modifications publiées en français

**CAN/CSA-C22.2 n° 60950-00**  
*Sécurité des matériels de traitement de l'information*

Des modifications ont été apportées au sous-comité sur la C22.2 n° 950.

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## Proposed New Projects

For more information about the proposed development of the following new editions, contact John O'Neill at 416-747-4042 or john.oneill@csa.ca:

- **CAN/CSA-C2, 9th edition**  
*Single-Phase and Three-Phase Liquid-Filled Distribution Transformers*
- **CAN/CSA-C2.2, 1st edition**  
*Pole-Mounted, Single-Phase Distribution Transformers for Electric Utilities*
- **C22.2 No. 66, 4th edition**  
*Specialty Transformers*
- **CAN/CSA-C227.3, 4th edition**  
*Low-Profile, Single-Phase, Pad-Mounted Distribution Transformers with Separable Insulated High-Voltage Connectors*
- **CAN/CSA-C227.4, 2nd edition**  
*Three-Phase, Pad-Mounted Distribution Transformers with Separable Insulated High-Voltage Connectors*

For more information about the proposed development of the following new edition, contact Tim Pope at 416-747-2572 or tim.pope@csa.ca:

- **C22.2 No. 14, 10th edition**  
*Industrial Control Equipment*



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## Proposed Adoption of Standards

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**Note:** Public comments about proposed adoptions listed in this issue are due by January 7, 2002.

For more information about the proposed adoption of the following IEC standards, or to offer comments, contact David Hulford at 416-747-2740 or david.hulford@csa.ca:

- **IEC 60079-1 (2001-02)** (to be adopted with modifications)  
*Electrical Apparatus for Explosive Gas Atmospheres—Part 1: Flameproof Enclosures "d"*
- **IEC 60730-2-3 am2 (2001-02)** (to be adopted with modifications)  
*Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Thermal Protectors for Ballasts for Tubular Fluorescent Lamps. Amendment 2*
- **IEC 60730-2-8 (2000-02)** (to be adopted with modifications)  
*Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Electrically Operated Water Valves, Including Mechanical Requirements*
- **IEC 60730-2-9 (2000-05)** (to be adopted with modifications)  
*Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Temperature Sensing Controls*
- **IEC 60730-2-10 am2 (2001-02)** (to be adopted with modifications)  
*Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Electrically Operated Motor Starting Relays. Amendment 2*
- **IEC 60730-2-11 am1 (1994-11)** (to be adopted with modifications)  
*Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Energy Regulators. Amendment 1*
- **IEC 60730-2-11 am2 (1997-04)** (to be adopted with modifications)  
*Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Energy Regulators. Amendment 2*

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## Reaffirmed Standards

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- CAN/CSA-C2-M91 (R2001)**  
*Single-Phase and Three-Phase Distribution Transformers, Types ONAN and LNaN*
- C9-M1981 (R2001)**  
*Dry-Type Transformers*
- C9.1-M1981 (R2001)**  
*Guide for Loading Dry-Type Distribution and Power Transformers*
- CAN/CSA-C22.2 No. 0-M91 (R2001)**  
*General Requirements—Canadian Electrical Code, Part II*
- CAN/CSA-C22.2 No. 0.16-M92 (R2001)**  
*Measurement of Harmonic Currents*
- CAN/CSA-C22.2 No. 47-M90 (R2001)**  
*Air-Cooled Transformers (Dry-Type)*
- CAN/CSA-C22.2 No. 130.1-M90 (R2001)**  
*Heat-Tracing Cable Systems for Use in Industrial Locations*
- C22.2 No. 231 Series-M89 (R2001)**  
*Safety Requirements for Electrical and Electronic Measuring and Test Equipment*
- CAN/CSA-C22.3 No. 1-M87 (R2001)**  
*Overhead Systems*
- CAN/CSA-C68.3-97 (R2001)**  
*Shielded and Concentric Neutral Power Cables Rated 5–46kV*
- CAN/CSA-C227.3-M91 (R2001)**  
*Low-Profile, Single-Phase, Dead-Front, Pad-Mounted Distribution Transformers*
- C301.2-M1979 (R2001)**  
*Three-Phase Submersible Distribution Transformers*



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## Informs Notices (Bulletins from CSA Certification and Testing)

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<b>Date</b>	<b>Subject</b>	<b>Title</b>
May 31, 2001	Publication of Technical Information Letter (TIL) No. D-25, covering interim certification requirements for pressurized gas-insulated switchgear.	Industrial Control Equipment No. 8
July 27, 2001	Publication of Technical Information Letter (TIL) No. J-29A, covering interim certification requirements for appliance wiring material in wire sizes 501 to 2000 kcmil.	Wire and Cable No. 93
August 10, 2001	Publication of amendment to CSA standard C22.2 No. 75-M1983, <i>Thermoplastic Insulated Wires and Cables</i> .	Wire and Cable No. 94
September 7, 2001	Publication of CSA standard CAN/CSA-E61965 and UL standard 61965, <i>Mechanical Safety of Cathode Ray Tubes</i> .	Audio and Video Equipment No. 13
September 10, 2001	Publication of Technical Information Letter (TIL) No. R-10, covering interim certification requirements for thermoelectric generators.	Thermoelectric Generators No. 1
September 28, 2001	Publication of Technical Information Letter (TIL) No. J-30, covering interim certification requirements for heating cable systems for use in other than industrial establishments.	Wire and Cable No. 95

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## Certification Notices

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Please note:     ▶ Notices marked with an arrowhead are new in this issue.

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
November 30, 2001	Technical Information Letter (TIL) No. B-58B, covering interim certification requirements for landscape lighting. (Supersedes "Lighting Products No. 18A.")	Lighting Products No. 34
▶ March 1, 2002	Interim certification requirements for flexible light cable systems.	Lighting Products No. 37
June 1, 2002	Publication of CAN/CSA-C22.2 No. 745-1 and CAN/CSA-C22.2 No. 745-2 ( <i>Portable Electric Tools</i> ), and CAN/CSA-C22.2 No. 745-3 and CAN/CSA-C22.2 No. 745-4 ( <i>Portable Battery-Operated Tools</i> ).	Electrical Tools No. 6



## Status of CSA Standards Projects

**TYPE:** ns new standard; ne new edition; spec special publication; p preliminary standard.

**STATUS:** 1 The project is under initial evaluation.

2 The technical content is being drafted.

3 The draft is undergoing an internal quality audit by CSA.

4 The publication is being processed for formal letter-ballot approval.

5 The approved publication will be for sale within 2–3 months.

H The publication is on hold.

C The publication has been cancelled. It will be removed from the next status report.

SUBJECT	NUMBER	TYPE	STATUS
<b>Wiring Products</b>			
Conduit and Cable Fittings	C22.2 No. 18.3	ns	3
Wire-Positioning Devices	C22.2 No. 18.5	ns	3
Lampholders	C22.2 No. 43	ne	1
Flexible Cords and Cables	C22.2 No. 49	ne	1
Non-metallic Surface Raceways	C22.2 No. 62.1	ns	3
Wire Connectors	C22.2 No. 65	ne	3
Thermoplastic-Insulated Wires and Cables (Tri-national standard)	C22.2 No. 75	ne	3
Non-metallic Cable Tray Systems	C22.2 No. 126.2	ns	3
Heat Tracing Cable Systems for Ordinary and Hazardous Locations	C22.2 No. 130	ne	4
Plugs, Receptacles and Cable Connectors of the Pin and Sleeve Type	C22.2 No. 182.1	ne	4
Communications Cables	C22.2 No. 214	ne	4
Liquid-Tight Flexible Nonmetallic Conduit	C22.2 No. 227.2.1	ns	3
Flexible Non-metallic Tubing	C22.2 No. 227.3	ne	1
<b>Industrial Products</b>			
Adhesive Labels	C22.2 No. 0.15	ne	4
Enclosed Switches	C22.2 No. 4	ne	3
Moulded Circuit Breakers	C22.2 No. 5	ne	4
Panelboards and Enclosed Panelboards	C22.2 No. 29	ne	3
Switchgear Assemblies	C22.2 No. 31	ne	4
Battery Chargers	C22.2 No. 107.2	ne	4
Safety of Uninterruptible Power Supplies (UPS)–Part 1	C22.2 No. 107.3	ns	3
Ground Fault Circuit Interrupters	C22.2 No. 144	ne	1
Switchboards	C22.2 No. 244	ns	1
Electrical Apparatus for Explosive Gas Atmospheres—			
— Part 0: General Requirements	E60079-0	ne	3
— Part 2: Electrical Apparatus–Type of Protection "P"	E60079-2	ne	3
— Part 5: Powder Filling "Q"	E60079-5	ne	3
— Part 6: Oil Immersion "O"	E60079-6	ne	3
— Part 11: Intrinsic Safety "I"	E60079-11	ne	3
— Part 14: Electrical Installations in Explosive Gas Atmospheres (Other Than Mines)	E60079-14	ne	3
— Part 15: Electrical Apparatus with Type of Protection "N"	E60079-15	ne	3
Arc Welding Equipment–Part 7: Torches	E60974-7	ns	3
Electrical Apparatus for Use in the Presence of Combustible Dust— Part 1: Electrical Apparatus Protected by Enclosures–Section 1: Specifications for Apparatus	E61241-1-1	ne	3



### Consumer and Commercial Products

Landscape Lighting	C22.2 No. 9.1	ns	H
Portable Luminaires	C22.2 No. 9.12	ne	1
Christmas Tree and other Decorative Lighting Outfits	C22.2 No. 37	ne	1
Humidifiers	C22.2 No. 104	ne	4
Electrostatic Air Cleaners	C22.2 No. 187	ne	3
Radiant Space Heating Panels, Panel Sets, and Systems	C22.2 No. 217	ne	H
Safety of Household and Similar Electrical Appliances–Part 1: General Requirements	E60335-1/4E	ne	3
Safety of Household and Similar Electrical Appliances–Part 2: Particular Requirements —			
— Commercial Electric Cooking Ranges, Ovens, Hobs and Hob Elements	E60335-2-36	ne	5
— Commercial Electric Deep Fat Fryers	E60335-2-37	ne	5
— Commercial Electric Griddles and Griddle Grills	E60335-2-38	ne	5
— Commercial Electric Multi-purpose Cooking Pans	E60335-2-39	ne	5
— Commercial Electric Forced Convection Ovens, Steam Cookers and Steam-convection Ovens	E60335-2-42	ne	5
— Commercial Electric Boiling Pans	E60335-2-47	ne	5
— Commercial Electric Grillers and Toasters	E60335-2-48	ne	5
— Commercial Electric Hot Cupboards	E60335-2-49	ne	5
— Commercial Electric Bains-marie	E60335-2-50	ne	5
— Commercial Electric Kitchen Machines	E60335-2-64	ne	5
Luminaires–Part 1: General Requirements and Tests	E60598-1	ne	3
Luminaires–Part 2: Particular Requirements–Section 5: Floodlights	E60598-2-5	ne	3
Automatic Electrical Controls for Household and Similar Use —			
— Part 1: General Requirements	E60730-1/3E	ne	3
— Part 2: Electrically Operated Water Valves, Including Mechanical Requirements	E60730-2-8	ne	3
— Part 2: Temperature Sensing Controls	E60730-2-9	ne	3

### CE Code, Part III – Outside Wiring

Overhead Systems	C22.3 No. 1	ne	5
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### Electrical Engineering

Zinc-coated Steel Wires for Overhead Line Conductors	IEC 60888	ns	3
Hard-drawn Aluminium Wire for Overhead Line Conductors	IEC 60889	ns	3
Aluminium-Magnesium-Silicon Alloy Wire for Overhead Line Conductors	IEC 60104	ns	3
Round Wire Concentric Lay Overhead Electrical Standed Conductors	IEC 61089	ns	3
Aluminum-clad Steel Wires for Electrical Purposes	IEC 61232	ns	3

### Electromagnetic Compatibility

Electromagnetic Compatibility (EMC)–Part 4: Testing and Measurement Techniques–Section 8: Power Frequency Magnetic Field Immunity Test–Basic EMC Publication	61000-4-8	ns	3
Electromagnetic Compatibility (EMC)–Part 4: Testing and Measurement Techniques–Section 9: Pulse Magnetic Field Immunity Test–Basic EMC Publication	61000-4-9	ns	3
Electromagnetic Compatibility (EMC)–Part 4-16: Testing and Measurement Techniques–Test for Immunity to Conducted, Common Mode Disturbances in the Frequency Range 0 Hz to 150 Hz	61000-4-16	ns	3
Electromagnetic Compatibility (EMC)–Part 4-17: Testing and Measurement Techniques–Ripple on D.C. Input Power Port Immunity Test	61000-4-17	ns	3
Information Technology Equipment–Radio Disturbance Characteristics–Limits and Methods of Measurement	CISPR 22	ne	3