



**CSA C22.2 No. 60335-2-47:20**  
**Household and similar electrical appliances —**  
**Safety — Part 2-47: Particular requirements for**  
**commercial electric boiling pans**  
(IEC 60335-2-47:2002+A1:2008+A2:2017, MOD)



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CSA C22.2 No. 60335-2-47:20  
**Household and similar electrical  
appliances — Safety — Part 2-47: Particular  
requirements for commercial  
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(IEC 60335-2-47:2002+A1:2008+A2:2017, MOD)

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# CSA C22.2 No. 60335-2-47:20

## **Household and similar electrical appliances — Safety — Part 2-47: Particular requirements for commercial electric boiling pans**

(IEC 60335-2-47:2002+A1:2008+A2:2017, MOD)

### **CSA Preface**

This is the third edition of CSA C22.2 No. 60335-2-47, *Household and similar electrical appliances — Safety — Part 2-47: Particular requirements for commercial electric boiling pans*, which is an adoption, with Canadian deviations, of the identically titled IEC (International Electrotechnical Commission) Standard 60335-2-47 (edition 4:2002 consolidated with Amendment 1:2008 and Amendment 2:2017). It supersedes the previous edition published in 2001 as CAN/CSA-E60335-2-47 (adopted IEC 60335-2-47:2000). It also replaces the requirements for commercial electric boiling pans found in CSA C22.2 No. 109-17, *Commercial cooking appliances*. It is one in a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*. At the time of publication, IEC 60335-2-47:2002+A1:2008+A2:2017 is available from IEC in English only. CSA Group will publish the French version when it becomes available from IEC.

For brevity, this Standard will be referred to as “CSA C22.2 No. 60335-2-47” throughout.

This Standard is intended to be used in conjunction with CAN/CSA-C22.2 No. 60335-1:16, *Household and similar electrical appliances — Safety — Part 1: General requirements* (adopted IEC 60335-1:2010+A1:2013, with Canadian deviations).

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was reviewed for Canadian adoption by the CSA Technical Committee on Consumer and Commercial Products, under the jurisdiction of the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

**Interpretations:** The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretation of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant

CSA committee interpretation has not already been published, CSA Group's procedures for interpretation shall be followed to determine the intended safety principle."

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**Household and similar electrical appliances – Safety**  
**Part 2-47: Particular requirements for commercial electric boiling pans**



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# CONSOLIDATED VERSION



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**Household and similar electrical appliances – Safety**  
**Part 2-47: Particular requirements for commercial electric boiling pans**

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Part 2-47: Particular requirements for commercial electric boiling pans**

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**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –****Part 2-47: Particular requirements  
for commercial electric boiling pans**

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**This Consolidated version of IEC 60335-2-47 bears the edition number 4.2. It consists of the fourth edition (2002-11) [documents 61E/403/FDIS and 61E/415/RVD], its amendment 1 (2008-05) [documents 61E/586/FDIS and 61E/590/RVD] and its amendment 2 (2017-04) [documents 61/5326/FDIS and 61/5387/RVD]. The technical content is identical to the base edition and its amendments.**

**In this Redline version, a vertical line in the margin shows where the technical content is modified by amendments 1 and 2. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.**

This part of International Standard IEC 60335 has been prepared by IEC subcommittee 61E: Safety of electrical commercial catering equipment, of IEC technical committee 61: Safety of household and similar electrical appliances.

This fourth edition constitutes a technical revision.

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments. It was established on the basis of the fourth edition (2001) of that standard.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to IEC 60335-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Safety requirements for commercial electric boiling pans.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
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NOTE 3 The following print types are used:

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- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition of Part 1 concerns an adjective, the adjective and the associated noun are also in bold .

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

The following differences exist in the countries indicated below.

- 6.1: Class 01 appliances are allowed (Japan).
- 6.2: For appliances intended to be installed in a kitchen, an appropriate degree of protection against harmful ingress of water is required according to their height of installation (France).
- 13.2: Leakage current limits are different (Japan).

- 16.2: Leakage current limits are different (Japan).
- Clause 21: For appliances intended to be installed in a kitchen, different values of impact energy are applicable according to the height of the impact point (France).

A bilingual version of this publication may be issued at a later date.

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## INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

# HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

## Part 2-47: Particular requirements for commercial electric boiling pans

### 1 Scope

This clause of Part 1 is replaced by the following.

This International Standard deals with the safety of electrically operated commercial **boiling pans** not intended for household **and similar** use, their **rated voltage** being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

NOTE 101 These appliances are used **for commercial processing of food**, for example in **kitchens** of restaurants, canteens, hospitals and **in** commercial enterprises such as bakeries, butcheries, etc.

The electrical part of appliances making use of other forms of energy is also within the scope of this standard.

As far as is practicable, this standard deals with the common hazards presented by these types of appliances.

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities;
- in many countries additional requirements are specified for pressure appliances.

NOTE 103 This standard does not apply to

- appliances designed exclusively for industrial purposes;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- **continuous process** appliances for **the continuous** mass production of food;

### 2 Normative references

This clause of Part 1 is applicable **except as follows**.

*Addition:*

*IEC 60584-1, Thermocouples – Part 1: EMF specifications and tolerances*

*ISO 898-1, Mechanical properties of fasteners made of carbon steel and alloy steel – Part 1: Bolts, screws and studs with specified property classes – Coarse thread and fine pitch thread*

*ISO 3506-1, Mechanical properties of corrosion-resistant stainless steel fasteners – Part 1: Bolts, screws and studs*

*ISO 3506-2, Mechanical properties of corrosion-resistant stainless steel fasteners – Part 2: Nuts*