



**CSA C22.2 No. 60335-2-113:20**

**Household and similar electrical appliances — Safety — Part 2-113: Particular requirements for cosmetic and beauty care appliances incorporating lasers and intense light sources**

(IEC 60335-2-113:2016, MOD)

**CSA C22.2 n° 60335-2-113:20**

**Appareils électrodomestiques et analogues — Sécurité — Partie 2-113 : Exigences particulières pour les appareils destinés aux soins cosmétiques et esthétiques comportant des lasers et des sources de lumière de forte intensité**

(IEC 60335-2-113:2016, MOD)



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***CSA C22.2 No. 60335-2-113:20***

***April 2020***

**Title:** *Household and similar electrical appliances — Safety — Part 2-113: Particular requirements for cosmetic and beauty care appliances incorporating lasers and intense light sources*

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# **CSA C22.2 No. 60335-2-113:20**

## **Household and similar electrical appliances — Safety — Part 2-113: Particular requirements for cosmetic and beauty care appliances incorporating lasers and intense light sources (IEC 60335-2-113:2016, MOD)**

### **CSA Preface**

This is the first edition of CSA C22.2 No. 60335-2-113, *Household and similar electrical appliances — Safety — Part 2-113: Particular requirements for cosmetic and beauty care appliances incorporating lasers and intense light sources*, which is an adoption, with Canadian deviations, of the identically titled IEC (International Electrotechnical Commission) Standard 60335-2-113 (first edition, 2016-04). It is one in a series of Standards issued by CSA Group under Part 2 of the *Canadian Electrical Code*.

For brevity, this Standard will be referred to as “CSA C22.2 No. 60335-2-113” 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 2-113: Particular requirements for cosmetic and beauty care appliances  
incorporating lasers and intense light sources**

**Appareils électrodomestiques et analogues – Sécurité –  
Partie 2-113: Exigences particulières pour les appareils destinés aux soins  
cosmétiques et esthétiques comportant des lasers et des sources de lumière  
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## NORME INTERNATIONALE



**Household and similar electrical appliances – Safety –  
Part 2-113: Particular requirements for cosmetic and beauty care appliances  
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**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –**
**Part 2-113: Particular requirements for cosmetic and beauty care  
appliances incorporating lasers and intense light sources**

## FOREWORD

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This part of International Standard IEC 60335 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

The text of this standard is based on the following documents:

FDIS	Report on voting
61/5112/FDIS	61/5132/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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 fifth edition (2010) 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 cosmetic and beauty care appliances incorporating lasers and intense light sources.

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;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

NOTE 3 The following print types are used:

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

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

A list of all parts of the IEC 60335 series, under the general title: *Household and similar electrical appliances – Safety*, can be found on the IEC website.

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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 and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

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.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

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.

NOTE 2 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces, are not applicable in addition to Part 1 or this part 2 standard. This does not apply to IEC 60825-1, except where specified in this part 2 standard.

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 2-113: Particular requirements for cosmetic and beauty care appliances incorporating lasers and intense light sources

#### 1 Scope

This clause of Part 1 is replaced by the following.

This International Standard deals with the safety of cosmetic and beauty care appliances incorporating lasers or **intense light sources** for household and similar purposes, where their operation relies on contact with the skin, their **rated voltage** being not more than 250 V.

NOTE 101 Battery-operated appliances and other d.c. supplied appliances are within the scope of this standard. Dual supply appliances, either mains-supplied or battery-operated, are regarded as **battery-operated appliances** when operated in the battery mode.

This standard covers appliances with a light emitting surface less than 25 cm<sup>2</sup>. Appliances with a light emitting surface equal to or greater than 25 cm<sup>2</sup> are within the scope of IEC 60335-2-27.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public such as appliances intended to be used in beauty salons and similar premises are also within the scope of this standard.

Appliances covered by the scope of this standard include but are not limited to:

- appliances for control of hair growth;
- appliances for skin and beauty care incorporating lasers or intense light sources (ILS).

NOTE 102 Appliances incorporating lasers or **intense light sources (ILS)** either heat up hair follicles or skin tissue to produce thermal effects or to produce photo-biological effects from specific wavelengths.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account:

- persons (including children) whose physical, sensory or mental capabilities or lack of experience and knowledge prevents them from using the appliance safely without supervision or instruction;
- children playing with the appliance.

NOTE 103 Attention is drawn to the fact that in many countries additional requirements are specified by the national health authorities.

NOTE 104 This standard does not apply to

- appliances for medical purposes (IEC 60601);
- appliances for skin or hair care (IEC 60335-2-23);
- appliances for nail hardening;
- appliances for skin exposure to optical radiation with a light emitting surface equal to or greater than 25 cm<sup>2</sup> (IEC 60335-2-27).