



# UL 60745-2-15

## STANDARD FOR SAFETY

Hand-Held Motor-Operated Electric Tools – Safety  
– Part 2-15: Particular Requirements for Hedge  
Trimmers

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UL Standard for Safety for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-15: Particular Requirements for Hedge Trimmers, UL 60745-2-15

First Edition, Dated June 28, 2010

### **Summary of Topics**

***This revision of ANSI/UL 60745-2-15, dated June 22, 2018, was issued to incorporate the following into the standard and to reflect the latest ANSI approval date.***

#### ***Revision To Clause 19.103DV To Clarify Minimum Number Of Handle Requirements For Extended Reach Hedge Trimmers***

***UL 60745-2-15 is an adoption of IEC 60745-2-15, Hand-Held Motor-Operated Electric Tools – Safety – Part 2-15 (Edition 2.1, issued June 2009). Please note that the national difference document incorporates all of the U.S. national differences for UL 60745-2-15 including the new national differences itemized below.***

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated April 13, 2018.

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## Hand-Held Motor-Operated Electric Tools – Safety – Part 2-15: Particular Requirements for Hedge Trimmers

June 28, 2010

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This national standard is based on publication IEC 60745-2-15, Edition 2.1 (Edition 2:2006 consolidated with Amendment 1:2009).



ANSI/UL 60745-2-15-2018



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## PREFACE

This harmonized CSA Group and UL standard for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-15: Particular Requirements For Hedge Trimmers. It is the first edition of CAN/CSA-C22.2 No. 60745-2-15, and the first edition of UL 60745-2-15. This harmonized standard has been jointly revised on June 22, 2018. For this purpose, CSA Group and UL are issuing revision pages dated June 22, 2018.

This harmonized standard is based on IEC Publication 60745-2-15: edition 2.1, Standard for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-15: Particular Requirements For Hedge Trimmers issued June 2009. IEC publication 60745-2-15 is copyrighted by the IEC.

This harmonized standard was prepared by the CSA Group and Underwriters Laboratories Inc. (UL). The efforts and support of the International Harmonization Committee (IHC) for the adoption of the IEC series of standards for Hand-Held, Motor-Operated, and Transportable Tools and Lawn and Garden Machinery UL are gratefully acknowledged.

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

This Standard was reviewed by the CSA Subcommittee on Safety of Hand-Held Motor-Operated Electric Tools, under the jurisdiction of the CSA Technical Committee on Consumer and Commercial Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the CSA Technical Committee. This Standard has been approved as a National Standard of Canada by the Standards Council of Canada.

### Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number is to be considered a minimum quantity.

**Note:** Although the intended primary application of this standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

This CAN/CSA-C22.2 No. 60745-2-15, Standard for Safety for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-15: Particular Requirements For Hedge Trimmers, is to be used in conjunction with the third edition of CAN/CSA-C22.2 No. 60745-1. The requirements for hedge trimmers are contained in this Part 2 Standard and CAN/CSA-C22.2 No. 60745-1. Requirements of this Part 2 Standard, where stated, amend the requirements of CAN/CSA-C22.2 No. 60745-1. Where a particular subclause of CAN/CSA-C22.2 No. 60745-1 is not mentioned in CAN/CSA-C22.2 No. 60745-2-15, the CAN/CSA-C22.2 No. 60745-1 subclause applies.

This UL Standard 60745-2-15 Standard for Safety for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-15: Particular Requirements For Hedge Trimmers, is to be used in conjunction with the fourth edition of UL 60745-1. The requirements for hedge trimmers are contained in this Part 2 Standard and UL 60745-1. Requirements of this Part 2 Standard, where stated, amend the requirements of UL 60745-1. Where a particular subclause of UL 60745-1 is not mentioned in UL 60745-2-15, the UL 60745-1 subclause applies.

## Level of Harmonization

This Standard adopts the IEC text with national differences.

This Standard is published as an equivalent standard for CSA and UL.

An equivalent standard is a standard that is substantially the same in technical content, except as follows: Technical national differences are allowed for codes and governmental regulations as well as those recognized as being in accordance with NAFTA Article 905, for example, because of fundamental climatic, geographical, technological, or infrastructural factors, scientific justification, or the level of protection that the country considers appropriate. Presentation is word for word except for editorial changes.

All national differences from the IEC text are included in the CSA and UL versions of the standard. While the technical content is the same in each organization's version, the format and presentation may differ.

## Reasons for Differences From IEC

National differences from the IEC are being added in order to address safety and regulatory situations present in the US and Canada.

## Interpretations

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one interpretation of the literal text has been identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

## IEC Copyright

For CSA Group, the text, figures, and tables of International Electrotechnical Commission Publication 60745-2-15, Hand-Held Motor-Operated Electric Tools – Safety – Part 2-15: Particular Requirements for Hedge Trimmers, copyright 2009, are used in this standard with the consent of the International Electrotechnical Commission. The IEC Foreword is not a part of the requirements of this standard but is included for information purposes only.

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## NATIONAL DIFFERENCES

There are five types of National Differences as noted below. The difference type is noted on the first line of the National Difference in the standard. The standard may not include all types of these National Differences.

In the CSA and UL publications, National Differences from the text of International Electrotechnical Commission (IEC) Publication 60745-2-15, Hand-Held Motor-Operated Electric Tools – Safety – Part 2-15: Particular Requirements for Hedge Trimmers, edition 2.1 (2009), are indicated by notations (differences) and are presented in bold text. The national difference type is included in the body.

**DR** – These are National Differences based on the **national regulatory requirements**.

**D1** – These are National Differences which are based on **basic safety principles and requirements**, elimination of which would compromise safety for consumers and users of products.

**D2** – These are National Differences from IEC requirements based on existing **safety practices**. These requirements reflect national safety practices, where empirical substantiation (for the IEC or national requirement) is not available or the text has not been included in the IEC standard.

**DC** – These are National Differences based on the **component standards** and will not be deleted until a particular component standard is harmonized with the IEC component standard.

**DE** – These are National Differences based on **editorial comments or corrections**.

Each national difference contains a description of what the national difference entails. Typically one of the following words is used to explain how the text of the national difference is to be applied to the base IEC text:

**Addition / Add** - An addition entails adding a complete new numbered clause, subclause, table, figure, or annex. Addition is not meant to include adding select words to the base IEC text.

**Replacement / Replace** – A replacement entails replacement of an entire clause, subclause, paragraph, table, figure, or annex with a new clause, subclause, paragraph, table, figure, or annex.

**Modification / Modify** – A modification is an altering of the existing base IEC text such as the addition, replacement, or deletion of certain words from the base IEC text.

**Deletion / Delete** – A deletion entails complete deletion of an entire clause, subclause, paragraph, table, figure, or annex without any replacement text.

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY – Part 2-15: Particular requirements for hedge trimmers

## FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and nongovernmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

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9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60745-2-15 has been prepared by subcommittee 61F: Safety of hand-held motor-operated electric tools, of IEC technical committee 61: Safety of household and similar electrical appliances.

Main changes include Clause 8: Marking and instructions, including detailed safety warnings; Clause 19: Mechanical hazards, with requirements for handles, hand protection, cutting device, blade stopping time, lower barrier, cutting device cover; and Clause 21: Construction, with requirements for blade controls (switches) and insulation of knobs and handles.

This consolidated version of IEC-60745-2-15 consists of the second edition (2006) [documents 61F/626/FDIS and 61F/638/RVD] and its amendment 1 (2009) [documents 116/10/FDIS and 116/16/RVD].

The technical content is therefore identical to the base edition and its amendments and has been prepared for user convenience.

It bears the edition number 2.1.

The amendment modifies the present part 2-15 to ensure its conformity with the fourth edition (2006) of IEC 60745-1, Hand-held motor-operated electric tools – Safety – Part 1: General requirements.

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 60745-1, *Hand-held motoroperated electric tools – Safety – Part 1: General requirements*, and its amendments. It was established on the basis of the fourth edition (2006) of that standard.

**NOTE 1** When “Part 1” is mentioned in this standard, it refers to IEC 60745-1.

This part 2 supplements or modifies the corresponding clauses of IEC 60745-1, so as to convert that publication into the IEC standard: Safety requirements for hedge trimmers.

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, items, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- additional annexes are lettered AA, BB, etc.

**NOTE 3** In this standard, the following print types are used:

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

IEC 60745 consists of the following parts, under the general title *Hand-held motor-operated electric tools – Safety*:

Part 1: General requirements

Part 2-1: Particular requirements for drills and impact drills

Part 2-2: Particular requirements for screwdrivers and impact wrenches

Part 2-3: Particular requirements for grinders, polishers and disk-type sanders

Part 2-4: Particular requirements for sanders and polishers other than disk type

Part 2-5: Particular requirements for circular saws

Part 2-6: Particular requirements for hammers

Part 2-7: Particular requirements for spray guns for non-flammable liquids

Part 2-8: Particular requirements for shears and nibblers

Part 2-9: Particular requirements for tappers

Part 2-11: Particular requirements for reciprocating saws (jig and sabre saws)

Part 2-12: Particular requirements for concrete vibrators

Part 2-13: Particular requirements for chain saws

Part 2-14: Particular requirements for planers

Part 2-15: Particular requirements for hedge trimmers

Part 2-16: Particular requirements for tackers

Part 2-17: Particular requirements for routers and trimmers

Part 2-18: Particular requirements for strapping tools

Part 2-19: Particular requirements for jointers

Part 2-20: Particular requirements for band saws

Part 2-21: Particular requirements for drain cleaners

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.