

UL 60335-2-8

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Household and Similar Electrical Appliances, Part 2: Particular Requirements for Shavers, Hair Clippers, and Similar Appliances

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UL Standard for Safety for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Shavers, Hair Clippers, and Similar Appliances, UL 60335-2-8

Fifth Edition, Dated October 28, 2004

Revisions: This Standard contains revisions through and including March 26, 2007.

Summary of Topics

Revisions dated March 26, 2007 were issued to clarify the UL effective date applies only to products Listed in accordance with UL 60335-2-8.

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Text that has been changed in any manner is marked with a vertical line in the margin.

The revisions dated March 26, 2007 include a reprinted title page (page1) for this Standard.

As indicated on the title page (page 1), this UL Standard for Safety is an American National Standard. Attention is directed to the note on the title page of this Standard outlining the procedures to be followed to retain the approved text of this ANSI/UL Standard.

The UL Foreword is no longer located within the UL Standard. For information concerning the use and application of the requirements contained in this Standard, the current version of the UL Foreword is located on ULStandardsInfoNet at: <http://ulstandardsinfo.net/ulforeword.html>

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The requirements in this Standard are now in effect, except for those paragraphs, sections, tables, figures, and/or other elements of the Standard having future effective dates as indicated in the preface. The prior text for requirements that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

New product submittals made prior to a specified future effective date will be judged under all of the requirements in this Standard including those requirements with a specified future effective date, unless the applicant specifically requests that the product be judged under the current requirements. However, if the applicant elects this option, it should be noted that compliance with all the requirements in this Standard will be required as a condition of continued Listing, Recognition, and Follow-Up Services after the effective date, and understanding of this should be signified in writing.

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This Standard consists of pages dated as shown in the following checklist:

Page	Date
1.....	March 26, 2007
2-3	June 6, 2006
4.....	March 26, 2007
5	October 28, 2004
6-10	June 6, 2006
11-12	October 28, 2004
13	June 6, 2006
14-17	October 28, 2004
18	June 6, 2006
19-21	October 28, 2004
22	June 6, 2006
23	October 28, 2004
24-24B	June 6, 2006
25-32	October 28, 2004
33-34	June 6, 2006

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OCTOBER 28, 2004
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ANSI/UL 60335-2-8-2006

1

UL 60335-2-8

Standard for Safety for Household and Similar Electrical Appliances, Part

2: Particular Requirements for Shavers, Hair Clippers, and Similar Appliances

Efforts have been made to synchronize the UL edition number with that of the corresponding IEC standard. As a result, one or more edition numbers have been skipped in the process. The list of UL editions included here is a complete list of published UL editions.

First Edition – April, 2001
Second Edition – Not Printed
Third Edition – Not Printed
Fourth Edition – Not Printed

Fifth Edition

October 28, 2004

The most recent designation of ANSI/UL 60335-2-8 as an American National Standard (ANSI) occurred on June 1, 2006. The ANSI approval of this standard does not include the Cover Page, Transmittal Page, Title Page, or Preface.

This ANSI/UL Standard for Safety, which consists of the Fifth Edition with revisions through March 26, 2007, is under continuous maintenance, whereby each revision is ANSI approved upon publication.

An effective date included as a note immediately following certain requirements is one established by Underwriters Laboratories Inc. and is not part of the ANSI Standard.

Revisions of this Standard will be made by issuing revised or additional pages bearing their date of issue. A UL Standard is current only if it incorporates the most recently adopted revisions, all of which are itemized on the transmittal notice that accompanies the latest set of revised requirements. Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <http://csds.ul.com>.

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Preface (UL)

This UL Standard 60335-2-8, Standard for Safety for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Shavers, Hair Clippers and Similar Appliances, is to be used in conjunction with the fourth edition of UL 60335-1. The requirements for shavers, hair clippers and similar appliances are contained in this part 2 Standard and UL 60335-1.

Requirements of this part 2 Standard, where stated, amend the requirements of UL 60335-1.

Where a particular subclause of UL 60335-1 is not mentioned in UL 60335-2-8, the UL 60335-1 subclause applies.

This standard is based on edition 5.1 of IEC 60335-2-8.

The text, figures and tables of IEC Publication Safety of Household and Similar Appliances, part 2: Particular Requirements for Shavers, Hair Clippers, and Similar Appliances, IEC 60335-2-8 copyright 2002, are used in this standard with the consent of the IEC and the American National Standards Institute (ANSI). The IEC copyrighted material has been reproduced with permission from ANSI. ANSI should be contacted regarding the reproduction of any portion of the IEC material. The IEC Foreword and Introduction are not a part of the requirements of this Standard but are included for information purposes only. Copies of IEC Publication 60335-2-8 may be purchased from ANSI, 11 West 42nd Street, New York, New York, 10036, (212) 642-4900.

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.

UL Effective Date

As of June 6, 2006, all products Listed by UL in accordance with this Standard must comply with the current requirements in this Standard.

NATIONAL DIFFERENCES

GENERAL

National Differences from the text of International Electrotechnical Commission (IEC) Publication 60335-2-8, Safety of Household and Similar Appliances, Part 2: Particular Requirements for Shavers, Hair Clippers and Similar Appliances, copyright 2002, are indicated by notations (differences) and are presented in bold text.

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.

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 based on **safety practices**. These are differences for IEC requirements that may be acceptable, but adopting the IEC requirements would require considerable retesting or redesign on the manufacturer's part.

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 or figure. Addition is not meant to include adding select words to the base IEC text.

Modification / Modify - A modification is an altering of the existing base IEC text such as the addition, replacement or deletion of certain words or the replacement of an entire clause, subclause, table, or figure of the base IEC text.

Deletion / Delete - A deletion entails complete deletion of an entire numbered clause, subclause, table or figure without any replacement text.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances

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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8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.

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.

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

This consolidated version of IEC 60335-2-8 is based on the fifth edition (2002) [documents 61/2200/FDIS and 61/2281/RVD] and amendment 1 (2005) [documents 61/2886/FDIS and 61/2902/RVD].

It bears the edition number 5.1.

A vertical line in the margin shows where the base publication has been modified by amendment 1.

The French version of this standard has not been voted upon.

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 electric shavers, hair clippers and similar appliances.

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 bold.

The following differences exist in the countries indicated below.

- 6.1: CLASS 0, CLASS 0I and CLASS I APPLIANCES are allowed, provided that they withstand higher test voltages during the electric strength test (USA).
- 6.1: CLASS 0 appliances are allowed, provided that their rated voltage does not exceed 150 V (Japan).
- 11.7: Appliances for household use are operated for 20 min. Other appliances are operated for 5 min with rest periods of 5 min (USA).
- 24.1.3: The test is conducted for 6 000 operations (USA).
- 25.7: Supply cords specially intended for use with electric shavers and hair clippers are allowed (USA).
- 25.14: The tests are not carried out (USA).