UL 1097

STANDARD FOR SAFETY

Double Insulation Systems for Use in Electrical Equipment

UL Standard for Safety for Double Insulation Systems for Use in Electrical Equipment, UL 1097

Sixth Edition, Dated February 1, 2012

Summary of Topics

This reaffirmation of ANSI/UL 1097 dated March 24, 2026 is issued to update the title page to reflect the most recent designation as a Reaffirmed American National Standard (ANS). No technical changes have been made.

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

The requirements are substantially in accordance with Proposal(s) on this subject dated January 23, 2026.

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Standard for Double Insulation Systems for Use in Electrical Equipment

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Sixth Edition

February 1, 2012

This ANSI/UL Standard for Safety consists of the Sixth Edition including revisions through March 24, 2026.

The most recent designation of ANSI/UL 1097 as a Reaffirmed American National Standard (ANS) occurred on March 24, 2026. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

Comments or proposals for revisions on any part of the Standard may be submitted to ULSE at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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INTRODUCTION

1 Scope

1.1 These requirements cover electrically operated equipment marked "Double Insulation" or "Double Insulated" to be used in accordance with the National Electrical Code, ANSI/NFPA 70.

1.2 Equipment marked "Double Insulation" or "Double Insulated" shall comply with the applicable requirements in this standard and the standard covering the particular type of equipment – the end-product standard. In cases where the end-product standard contains requirements for double insulation, that standard takes precedence.

2 General

2.1 Units of measurement

2.1.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

2.2 Undated references

2.2.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

3 Glossary

3.1 For the purpose of this standard the following definitions apply.

3.2 ACCESSIBLE PART or SURFACE – A part or surface subject to contact by persons under any condition of operation or user function. In a determination of whether a live or dead part or surface is accessible to such contact, the criteria specified in the product standard are to be applied.

3.3 BASIC INSULATION (formerly FUNCTIONAL INSULATION) – The insulation applied to live parts to provide basic protection against electric shock. Basic insulation does not necessarily include insulation used exclusively for functional purposes.

3.4 DEAD METAL PART – A metal or other electrically conductive part, accessible or inaccessible, that is not conductively connected to a live part.

3.5 DOUBLE INSULATION – An insulation system comprised of basic (formerly functional) insulation and supplementary insulation, with the two insulations physically separated and arranged so that they are not simultaneously subjected to the same deteriorating influences (temperature, contaminants, and the like) to the same degree. See Figure 3.1.

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