UL 62841-4-4:2026

(IEC 62841-4-4:2020+AMD1:2024, MOD)

STANDARD FOR SAFETY

Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 4-4: Particular Requirements for Lawn Trimmers, Lawn Edge Trimmers, Grass Trimmers, Brush Cutters and Brush Saws

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UL Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 4-4: Particular Requirements for Lawn Trimmers, Lawn Edge Trimmers, Grass Trimmers, Brush Cutters and Brush Saws, UL 62841-4-4

First Edition, Dated October 29, 2021

SUMMARY OF TOPICS

This revision of ANSI/UL 62841-4-4 dated June 9, 2026 includes Adoption of Amendment 1: 2024 and other changes in requirements:

> ***– Deletion of National Difference requirements to provide ear protection marking and related instructions unless the machine has been tested and the measured A-weighted emission sound pressure level at the operator's ear in accordance with Annex I does not exceed 85 dB(A):***

UL 62841-4-4 is an adoption of IEC 62841-4-4, First Edition, issued by the IEC November 2020 and its Amendment 1 issued 2024. Please note that the National Difference document incorporates all of the U.S. national differences for UL 62841-4-4.

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 new and revised requirements are substantially in accordance with Proposal(s) on this subject dated January 16, 2026.

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Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 4-4: Particular Requirements for Lawn Trimmers, Lawn Edge Trimmers, Grass Trimmers, Brush Cutters and Brush Saws

October 29, 2021

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This national standard is based on publication IEC 62841-4-4, First Edition (2020) and Amendment 1 (2024).

ANSI/UL 62841-4-4-2026

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CONTENTS

PREFACE **7**

NATIONAL DIFFERENCES **9**

FOREWORD **11**

INTRODUCTION **15**

1 Scope 17
2 Normative references 17
3 Terms and definitions 18
4 General requirements 27
5 General conditions for the tests 27
6 Radiation, toxicity and similar hazards 27
7 Classification 27
8 Marking and instructions 28
8.2.101 Additional safety markings 28
8.2.101.2DV Modification: Delete the second dashed item in Clause 8.2.101.2 of the Part 4. 28
8.14.1.101DV.1 Modification: Replace NOTE 103 and NOTE 104 in Clause 8.14.1.101 i) of the Part 4 with the following: 31
8.14.1.101DV.2 Modification: Delete NOTE 105 in Clause 8.14.1.101 i) of the Part 4). 31
9 Protection against access to live parts 37
10 Starting 37
11 Input and current 37
12 Heating 37
13 Resistance to heat and fire 38
14 Moisture resistance 38
15 Resistance to rusting 39
16 Overload protection of transformers and associated circuits 39
17 Endurance 39
18 Abnormal operation 40
19 Mechanical hazards 43
19.101 Guarding of cutting means and cutting accessories 43
19.102 Handles 52
19.103 Barrier and distance to cutting accessory 57
19.104 Thrown objects test 59
19.105 Telescopic shafts 59
19.106 Grass catcher and guards 60
20 Mechanical strength 60
20.3.1DV National Difference Deleted 62
20.101 Strength of lawn trimmers, lawn edge trimmers and grass trimmers 65
20.102 Strength of brush cutters and brush saws 68
21 Construction 72
21.18.101 Inadvertent starting prevention 74
21.18.102 Operator presence sensor 76
21.18.103 Reverse rotation selector 77
21.101 Lawn trimmer and lawn edge trimmer cutting elements 78
21.102 Lawn trimmer, lawn edge trimmer and grass trimmer distances to guard 80
21.103 Lawn edge trimmer cutting head ground contact 80
21.104 Cutting head and cutting accessory retention 80
21.105 Grass trimmer cutting means 81
21.106 Shoulder harness 81

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21.107 Balance 82
21.108 Cutting accessory cover 83
22 Internal wiring 83
23 Components 83
24 Supply connection and external flexible cords 84
25 Terminals for external conductors 87
26 Provision for earthing 87
27 Screws and connections 87
28 Creepage distances, clearances and distances through insulation 87

Annexes

Annex I (informative) Measurement of noise and vibration emissions

I.2 Noise test code (grade 2) 93
I.2.2 Sound power level determination 93
I.2.2.101 Requirements for an artificial surface 96
I.2.2.102 Requirements for a natural ground surface 96
I.2.3 Emission sound pressure level determination 97
I.2.4 Installation and mounting conditions of the power tools during noise tests 98
I.2.5 Operating conditions 98
I.3 Vibration 99

Annex K (normative) Battery tools and battery packs

K.1 Scope 102
K.3 Terms and definitions 102
K.11 Input and current 105
K.14 Moisture resistance 105
K.24 Supply connection and external flexible cords 111
K.28 Creepage distances, clearances and distances through insulation 112

Annex L (normative) Battery tools and battery packs provided with mains connection or non-isolated sources

L.1 Scope 115

Annex AA (normative) Safety signs which may be used on machines

Annex BB (normative) Thrown objects test for grass trimmers, brush cutters and brush saws

BB.1 Test stand 133
BB.2 Test conditions 135
BB.3 Penetration wall 135
BB.4 Test pieces 135
BB.5 Procedure 136
BB.6 Inspection of the cutting means or cutting accessory 136
BB.7 Result 136

Annex CC (normative) Impact test for brush cutter and brush saw cutting accessories and grass trimmer cutting means

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Annex DD (informative) Example of a material and construction fulfilling the requirements for an artificial surface

DD.1 Material 140
DD.2 Construction 140

Annex EE (informative) Summary of characteristics for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws

Bibliography

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PREFACE

This is the harmonized CSA Group and ULSE standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 4-4: Particular Requirements for Lawn Trimmers, Lawn Edge Trimmers, Grass Trimmers, Brush Cutters and Brush Saws. It is the First edition of CSA C22.2 No. 62841-4-4, and the First edition of UL 62841-4-4. This harmonized standard has been jointly revised on June 9, 2026. For this purpose, CSA Group and ULSE are issuing revision pages dated June 9, 2026.

This harmonized Standard is based on IEC Publication 62841-4-4: First edition, Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 4-4: Particular Requirements for Lawn Trimmers, Lawn Edge Trimmers, Grass Trimmers, Brush Cutters and Brush Saws issued November 2020 as revised by Amendment 1 issued 2024. IEC publication 62841-4-4 is copyrighted by the IEC.

This harmonized Standard was prepared by CSA Group and ULSE. 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 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.

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.

CSA C22.2 No. 62841-4-4 is to be used in conjunction with the first edition of CAN/CSA-C22.2 No. 62841-1. The requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws are contained in this Part 4-4 Standard and CAN/CSA-C22.2 No. 62841-1. Requirements of this Part 4-4 Standard, where stated, amend the requirements of CAN/CSA-C22.2 No. 62841-1. Where a particular subclause of CAN/CSA-C22.2 No. 62841-1 is not mentioned in CSA C22.2 No. 62841-4-4, the CAN/CSA-C22.2 No. 62841-1 subclause applies.

UL 62841-4-4 is to be used in conjunction with the first edition of UL 62841-1. The requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws are contained in this Part 4-4 Standard and UL 62841-1. Requirements of this Part 4-4 Standard, where stated, amend the requirements of UL 62841-1. Where a particular subclause of UL 62841-1 is not mentioned in UL 62841-4-4, the UL 62841-1 subclause applies.

Level of Harmonization

This standard adopts the IEC text with national differences.

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This standard is published as an equivalent standard for CSA Group and ULSE.

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 Group and ULSE 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

Differences from the IEC are being added in order to address safety and regulatory situations present in Canada and the U.S.

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.

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For CSA Group, the text, figures, and tables of International Electrotechnical Commission Publication 62841-4-4, Standard for Safety for Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-4: Particular requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws, copyright 2024, are used in this standard with the consent of the International Electrotechnical Commission. The IEC Foreword and Introduction are not a part of the requirements of this standard but are included for information purposes only.

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NATIONAL DIFFERENCES

National Differences from the text of International Electrotechnical Commission (IEC) Publication 62841-4-4, Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-4: Particular requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws, copyright 2024, are indicated by notations (differences) and are presented in bold text. The national difference type is included in the body.

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 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.

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, figure, or annex of the base IEC text.

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FOREWORD

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE TOOLS AND LAWN AND GARDEN MACHINERY – SAFETY – Part 4-4: Particular requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws

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This consolidated version of the official IEC Standard and its amendment has been prepared for user convenience.

IEC 62841-4-4 edition 1.1 contains the first edition (2020-11) [documents 116/468/FDIS and 116/479/RVD] and its amendment 1 (2024-10) [documents 116/806/FDIS and 116/829/RVD].

International Standard IEC 62841-4-4 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

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

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This Part 4-4 is to be used in conjunction with the first edition of IEC 62841-1:2014.

This Part 4-4 supplements or modifies the corresponding clauses in IEC 62841-1, so as to convert it into the IEC Standard: Particular requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws.

Where a particular subclause of Part 1 is not mentioned in this Part 4-4, that subclause applies as far as reasonable. Where this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

The following print types are used:

– requirements: in roman type;

– *test specifications: in italic type*

– notes: in small roman type.

The terms defined in Clause 3 are printed in **bold typeface**.

Subclauses, notes, tables and figures which are additional to those in Part 1 as well as Annexes of Part 1, except as described for Annex K and Annex L below, are numbered starting from 101.

Subclauses, notes, tables and figures in Annex K and Annex L which are additional to those in the main body of this Part 4-4 are numbered starting from 301.

A list of all parts of the IEC 62841 series, under the general title: *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety*, can be found on the IEC website.

The committee has decided that the contents of this document and its amendment will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

• reconfirmed,

• withdrawn, or

• revised.

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 36 months from the date of publication.

101DV DE *Modification: Add the following to the IEC Foreword:*

The numbering system in the standard uses a space instead of a comma to indicate thousands and uses a comma instead of a period to indicate a decimal point. For example, 1 000 means 1,000 and 1,01 means 1.01.

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102DV DE *Modification: Add the following to the IEC Foreword:*

For this Standard, all references to "Part 1" refer to CAN/CSA-C22.2 No. 62841-1 and UL 62841-1.

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INTRODUCTION

The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of patents concerning prevention of inadvertent starting given in Subclause 21.18.101.

IEC takes no position concerning the evidence, validity and scope of this patent right.

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ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS, TRANSPORTABLE TOOLS AND LAWN AND GARDEN MACHINERY – SAFETY –

Part 4-4: Particular requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws

1 Scope

This clause of Part 1 is applicable, except as follows:

Addition:

This document applies to hand-held and **walk-behind lawn trimmers** and **lawn edge trimmers**, used by a standing operator for cutting grass, weeds or similar soft vegetation, and **grass trimmers**, **brush cutters** and **brush saws** used by a standing operator for cutting grass, weeds, brush, bushes, saplings and similar vegetation.

This document does not apply to

– hand-held machines having a mass of 18 kg or greater;

– self-propelled **lawn trimmers** or **lawn edge trimmers**;

– scissors type **lawn trimmers** and **lawn edge trimmers**;

– machines equipped with metallic **cutting accessories** consisting of more than one piece, e.g. pivoting chains or flail blades;

– edgers with rigid and/or metallic cutting devices.

NOTE 101 Freely pivoting non-metallic **cutting elements** are considered not to be rigid cutting devices.

NOTE 102 Edgers with rigid or metal cutting devices will be covered by a future part of IEC 62841-4.

NOTE 103 Annex EE provides an informative summary of characteristics for **lawn trimmers**, **lawn edge trimmers**, **grass trimmers**, **brush cutters** and **brush saws**.

Brush cutters and **brush saws** covered by this document are designed only to be operated with the machine to the right of the operator.

2 Normative references

This clause of Part 1 is applicable, except as follows:

Replacement of undated normative reference for ISO 3744:

ISO 3744:2010, *Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for an essentially free field over a reflecting plane*

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