

Specification for

Safety of household electrical appliances —

Part 2: Particular requirements —

Section 2.42 Battery-operated
lawn mowers

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The organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

Association of Manufacturers Allied to the	Federation of British Horticultural Exporters
Electrical and Electronic Industry	Portable Electric Tool Manufacturers'
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British Lawnmower Manufacturers'	Rotating Electrical Machines Association
Federation	(BEAMA)
Consumer Standards Advisory Committee of	Transmission and Control Manufacturers'
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Consumers' Association	

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Foreword

This British Standard has been prepared under the authority of the Light Electrical Engineering Standards Committee and is one of a series of Sections of the specification covering the safety requirements for household electrical appliances.¹⁾

This Section 2.42 specifies requirements which depart from, or are additional to, those given in the 1969 edition of BS 3456-1 “*General requirements*” and the clauses are numbered to correspond with those given in Part 1.

Mains-operated lawnmowers are covered by BS 3456-2.32.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

¹⁾ See page 8 of this standard.

1 Scope

This Section 2.42 of BS 3456 covers battery-operated lawnmowers for household use, including those of the self-propelled type. It does not cover mains-operated lawnmowers, and applies only to pedestrian controlled lawnmowers.

It is to be read in conjunction with Part 1 of the standard and the appliances are required to comply in all respects with the requirements specified in Part 1 except in so far as they are modified by this Section 2.42.

NOTE The titles of the publications referred to in this standard are listed on page 8.

2 Definitions

For the purposes of this Section of this British Standard, the definitions of Part 1 apply, with the following modification:

to 2.23:

normal load

the load necessary to obtain the rated motor current in amperes either as marked on the appliance or declared to the test authority by the manufacturer at the nominal battery voltage

3 General requirement

This clause of Part 1 applies.

4 General conditions for the tests

This clause of Part 1 applies, with the following modifications:

to 4.2:

A specially prepared sample may be necessary for frame return circuit mowers.

to 4.4:

Cutting members in mechanical engagement shall be separated or adequately lubricated before and during the test.

5 Rating

This clause of Part 1 applies.

6 Classification

This clause of Part 1 applies, with the following modifications:

to 6.1 1):

Mowers incorporating battery chargers shall be Class II. Mowers not incorporating battery chargers shall be at least Class III.

to 6.1 2):

Class II mowers shall be at least splash-proof.

7 Marking

This clause of Part 1 applies, with the following modification and additions:

to 7.1 as a modification:

Mowers with integral battery chargers shall be marked with items (1), (2), (3), (4), (5), (6), (8), (9), (10), (11) and (12) prefaced by the words "For charging."

Mowers without integral battery chargers shall be marked with items (1), (8), (9) and (10).

All mowers shall be marked with the nominal battery voltage prefaced by the words "Battery voltage:"

to 7.4 as an added note:

This requirement will be met by marking "intermittent" for item (10) in 7.1.

The following additional subclauses apply:

I. If the blades or cutters are concealed from view when the mower is in the operating position and give no visual indication of rotation the user instructions shall include the following warning, which shall also be placed on the mower in a prominent position. The minimum height of lettering in both the user instructions and on the machine shall be 3 mm.

"BLADES CONTINUE TO ROTATE AFTER
MOWER IS SWITCHED OFF"

II. Mowers shall be marked in a prominent position with a warning identifying the means for preventing accidental operation before adjusting or cleaning. The warning shall also appear with adequate explanation in the user instructions. The minimum height of lettering in both the user instructions and on the machine shall be 3 mm.

III. User instructions shall contain adequate information regarding the filling of the battery with electrolyte and subsequent topping up, where appropriate, together with detailed information on the use of the charger and, if applicable, the type of separate charger to be used, making reference to BS 3456-2.36, and warning that it may be dangerous to use a charger which has not been recommended.

IV. Battery-operated mowers without integral chargers shall be marked with the following notice:

"CAUTION USE CORRECT CHARGER"

the lettering to have a minimum height of 3 mm.

V. Controls other than simple handlebar levers, shall have the method of operation clearly identified, if it is not self-evident or does not return to a safe position when released.