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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 3883.405-2025

Replacing GB/T 4706.64-2012

**Safety of motor-operated hand-held, transportable and garden
tools - Part 405: Particular requirements for grass shears**

手持式、可移式电动工具和园林工具的安全 第405部分：草剪的专用要求

(English Translation)

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References

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 405 of GB/T 3883, "Safety of Hand-held, Portable Power Tools and Garden Tools". GB/T 3883...

---GB/T 3883.401-2023 Safety of Handheld and Portable Power Tools and Garden Tools - Part 401: Chainsaws Requirements;

---GB/T 3883.402-2023 Safety of handheld and portable power tools and garden tools - Part 402: Pruning shears Special requirements.

---GB/T 3883.403-2017 Safety of handheld, portable power tools and garden tools - Part 4: Walking and hand-held power tools Special requirements for handheld lawn mowers and lawn trimmers;

---GB/T 3883.404-2025 Safety of handheld, portable power tools and garden tools - Part 404: Pedestrian control Specific requirements for lawnmowers;

Requirements.

This document replaces GB/T 4706.64-2012 "Safety of household and similar electrical appliances - Part 2: Special requirements for scissor-type grass shears".

Compared with GB/T 4706.64-2012, the main technical changes in the "Requirements" document are as follows, apart from structural adjustments and editorial modifications.

- a) The general requirements for use with this document have been changed from GB 4706.1-2005 to GB/T 3883.1-2014;
- b) A description has been added to the scope. "Pruning shears are not applicable; pruning shears are included in GB/T 3883.402" (see Chapter 1);
- c) Added terms such as "maximum speed" to the terminology (see Chapter 3);
- d) Added descriptions of accessories, grass shear quality, and test sample requirements in

the general test conditions section (see Chapter 5);

e) Increase the requirements for certain safety symbols in signs and instruction manuals, as well as for easily recognizable and durable signs, and safety instructions and information in instruction manuals.

(See Chapter 8);

f) The test conditions for moisture resistance have been modified and added (see Chapter 14, Chapter 14 of GB/T 4706.64-2012);

g) The durability requirements have been changed (see Chapter 17, GB/T 4706.64-2012);

h) Table 4 of Part 1 of Abnormal Operations has been amended (see Chapter 18, Chapter 18 of GB/T 4706.64-2012);

i) It clarifies the inapplicable clauses in the section on mechanical hazards, adding 19.101 handles, 19.102 adjustable handles, and 19.103 protection of hands from cutting equipment.

Protection requirements for preventing injury, 19.104.1 if the grass shears exceed the cutting range requirements of the cutting device, move the original 22.102 cutting device Protective cover to 19.105 cutting blade protection (see Chapter 19, GB/T 4706.64-2012);

j) Added instructions for the mechanical strength test method 20.3, moved the original 22.35 insulation test covering the metal handle to 20.5, and added...

20.102 The grass shears with extension poles shall have the strength to withstand the intended force (see Chapter 20);

k) Added requirements for power switches and operator presence sensors in sections 21.17 and 21.18 of the structure, and added section 21.101 for delay...

Requirements for long-stemmed grass shears (see Chapter 21);

l) The requirement for protection devices in component 23.3 has been added (see Chapter 23);

m) Added instructions for power connections and external flexible cords, specifically for connection methods 24.1 and type Z (see Chapter 24);

(n) Requirements 28.1 and 28.2 in creepage distance, clearance, and insulation penetration distance have been added (see Chapter 28);

o) Added battery-powered tools and battery packs (specifications) (see Appendix K);

p) Added battery-powered tools and battery packs that provide power connection or non-isolated sources (specifications) (see Appendix L);

q) The safety signs for safety instructions and warnings have been changed (normative)

(see Appendix AA).

This document is equivalent to IEC 62841-4-5:2021 "Safety of hand-held and portable power tools and garden machinery driven by electric motors".

Parts 4-5. Specific requirements for grass shears.

The following minimal editorial changes have been made to this document.

---The standard title has been changed to "Safety of Handheld, Portable Power Tools and Garden Tools - Part 405: Special Requirements for Grass Shears".

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---This section incorporates content from IEC 62841-4-5:2021/COR1.2024, and the clauses involved in these technical errata have been communicated.

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Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Electrical Equipment Industry Association.

This document is under the jurisdiction of the National Technical Committee on Standardization of Electric Tools (SAC/TC68).

Introduction

This document is consistent with GB/T 3883.1-2014 "Safety of handheld and portable power tools and garden tools - Part 1: General requirements" Use them together.

The parts of this document that specify "Applicable" indicate that the corresponding clauses in GB/T 3883.1-2014 apply; the parts of this document that specify "Replace" indicate that...

The terms and conditions in this document shall prevail; the parts marked "modified" in this document refer to the relevant provisions of GB/T 3883.1-2014.

The revised content of this document shall prevail, while other contents of this clause shall remain applicable; any part of this document marked "added" indicates that in addition to complying with the provisions of this document, the content of this document shall also apply.

In addition to the relevant clauses of GB/T 3883.1-2014, it must also comply with the clauses added in this document.

In 2014, my country issued the national standard GB/T 3883.1-2014, "Safety of Handheld and Portable Power Tools and Garden Tools, Section 1".

Part. General Requirements, which replaces the original GB/T 3883 (Handheld Power