

ICS 65.060.70
CCS B 91

LY

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

LY/T 3168-2019

**Garden machinery -- Edgers with rigid cutting means with
lithium-ion battery as power source
(English Translation)**

Issued on: October 23, 2019

Implemented on: April 1, 2020

Issued by: State Forestry and Grassland Administration

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References

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

Please note that some elements of this document may involve patents. The issuer of this document is not responsible for identifying these patents.

This standard is proposed and managed by the National Forestry Machinery Standardization Technical Committee (SAC/TC 61).

1 Scope

This standard specifies a handheld edge trimmer with a rigid cutting device and a hand-trimmed edge trimmer (hereinafter referred to as the abbreviation hereinafter) with a lithium-ion battery as the power source.

"Lithium battery hand-held trimming machine" and "lithium battery hand-held trimming machine") terms and definitions, model preparation method, basic parameters, technical requirements and test methods, signs, instructions for use, packaging, transportation, storage and handling.

This standard applies to handheld trimmers and hand-powered machines powered by rechargeable lithium-ion battery packs (battery packs) with a nominal voltage not greater than 75 V DC.

Push trimming machine.

This standard does not apply to.

- Trimming machine with cutting device of flexible wire or non-metal cutter;
- Trimming machine with the user-installed universal battery pack or battery pack as the power source;
- Trimming machines with other non-lithium ion batteries as the power source.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this document.

For undated references, the latest version (including all amendments) applies to this document.

GB/T 191 Packaging, storage and transportation icon GB/T 755 rotating machine quota and performance GB/T 4208 enclosure protection grade (IP code) GB/T 3883.1-2014 Safety of hand-held, portable power tools and garden tools. Part 1. General requirements GB 4343.1 EMC requirements for household appliances, power tools and similar appliances Part 1. Emissions GB/T 9480 Rules for the preparation of manuals for agricultural and forestry tractors and machinery, lawn and garden power machinery GB/T 13384 General technical requirements for packaging of electromechanical products GB/T 15706-2012 General principles for safety design of machinery for risk assessment and risk reduction GB 10395.15-2006 Safety requirements for agricultural and forestry tractors and machinery. Part 15. Power trimming machines with rigid cutting devices GB/T 3883.403-2017 Safety of hand-held, portable power tools and garden tools. Part 4. Walking and hand-held grass Special requirements for floor trimmers and lawn trimmers GB/T 21418 General technical specifications of permanent magnet brushless motor systems GB/T 26572 Limitation of restricted substances in electronic and electrical products GB/T 34570.1 Safety of rechargeable battery packs and chargers for power tools. Part 1. Safety of battery packs GB/T 34570.2 Safety of rechargeable battery packs and chargers for power tools. Part 2. Safety of chargers SJ/T 11364 Restriction on the use of hazardous substances in electrical and electronic products IEC 60335-2-29 Safety of household and similar electrical appliances. Part 2-29. Particular requirements for battery chargers (Household and similar electrical appliances- Safety -Part 2-29. Particular requiriements for battery chargers) IEC 61960-3 Battery and battery pack containing alkaline or other non-acid electrolytes Part 3. Prismatic and cylindrical lithium batteries and batteries (Secondary cells and batteries containing alkaline or other non-acid electrolytes-Secondary lithium cells and batteries for portable applications-Part 3. Prismatic and cylindrical lithium secondary cells and batteries made from them) IEC 62841-1.:2014 Safety of hand-held, portable power tools and garden tools. Part 1. General requirements (Electric motor-operated hand-held tools, transportable

tools and lawn and garden machinery-Safety-Part 1. General requirements)

3 Terms and definitions

GB 10395.15-2006 as defined in 3.3, 3.4, 3.6, 3.7, 3.16 and the following terms and definitions apply to this document.

Hand-held edger with lithium-ion battery as power source Hold by hand, or can be used with wheels or shoulder straps, powered by a DC motor powered by a rechargeable lithium-ion battery pack (battery pack), Equipped with metal blades, the diameter of the blade rotation circle is not greater than 305 mm, and the blade/soil repair works in a plane approximately perpendicular to the ground plane Whole appliance (see Figure 1).

Hand-pushed edger with lithium-ion battery as power source Directly controlled by an operator who walks behind the ground support unit and powered by a rechargeable lithium-ion battery pack (battery pack).

Powered by a flow motor, equipped with a metal blade, the diameter of the blade turning circle is not greater than 305 mm, and the blade can only be at an angle of $\pm 15^\circ$ from the vertical direction Adjust within range, with the lawn/soil trimming device working in a plane approximately perpendicular to the ground plane (see Figure 2).

Note: The "hand-operated trimming machine" is the same as the "back-operated trimming machine" in GB 10395.15-2006.

Guiding handle

A handle to support the appliance and control its direction (see Figure 1).

Control handle

During the operation of the appliance, a handle for holding and controlling the moving member of the cutting device (see Fig. 1).

Nominal voltage

The product of the nominal voltage of a single cell and the number of cells in series.

Note: The unit is volt.

Net mass of the machine in the working state, the cutting accessories specified in the installation instructions and the pluggable adapter battery pack (connected to the whole machine by a flexible cord) (Except for battery packs), the quality of appliances without a strap.

Explanation.

1--battery pack chamber; 5--switch;

2--Control handle; 6--Metal tube;