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LY

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

LY/T 1620-2012

Replacing LY/T 1620-2004

**Garden machinery. Rotary pedestrian controlled electric
lawnmowers**

(English Translation)

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Foreword

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

This standard replaces LY/T 1620-2004 "Electric Lawn Mower". The main technical changes compared with LY/T 1620-2004 are as follows.

- Change the standard name from "Electric Lawn Mower" to "Garden Machinery Rotary Stepping Electric Lawn Mower", corresponding English Name changed from "Electricmotionlawnmower" to "Gardenmachinery-Rotarypedestriancontrolled"
- Modified the contents of the normative reference documents (see Chapter 2, Chapter 2 of the 2004 edition);
- Modified terms and definitions (see Chapter 3, Chapter 3 of the 2004 edition);
- Modified the content of the model preparation method (see Chapter 4, Chapter 4 of the 2004 edition);
- Added the content of "basic parameters" (see Chapter 5);
- Increased the content of the "use environment" and "restricted use of materials" of lawn mowers (see 6.1.3, 6.1.4);
- Modified the startup performance requirements (see 6.2.2, 2004 version 6.2);
- Increased the requirements of "stability", "grass performance", "falling of the whole machine" (see 6.2.3, 6.2.6, 6.2.7);
- "Blade braking time" requirements have increased the life requirements for brakes (see 6.2.4);
- Increased the requirements for parts such as "plug", "cracking device anti-collision" and "hanging weight" (see 6.3.6, 6.3.9, 6.3.10);
- Modified the requirements for motor performance (see 6.3.7, 2004 version 6.5);
- Revised the requirements for "handle structure and position" (see 6.3.8, 2004 version

6.29);

---Modified the requirements for screws and connectors (see 6.3.11, 2004 version 6.19);

--- Increase the "structural integrity of the pedestal, protective cover and grass collector" requirements (see 6.3.13);

--- Increased the safety requirements of "temperature rise", "leakage current and electrical strength at working temperature", and "moisture resistance" (see 6.4.1, 6.4.2 6.4.4);

---Modified "electrical protection level" (see 6.4.3, 2004 version 6.36e)), "shell protection level" (see 6.4.9, 2004 version) 6.15), "Blade unbalanced operation" (see 6.4.10, 2004 version 6.36a)), "Preventing object ejection" (see 6.4.11, 2004 edition) 3.36b)), "anti-touch" (see 6.4.12, 2004 version 6.36c));

--- Modified the "noise" requirement (see 6.4.13, 2004 version 6.30);

--- Added "electromagnetic compatibility" requirements (see 6.5);

--- Added "Third Party Inspection" to the inspection rules (see 8.4);

--- Removed the parameter requirements of "front and rear wheel diameter" in the manual, and added the "turbine machine measured noise value" parameter requirement (see 9.2.4, 2004 version 5.2.5); deleted the nameplate requirements for additional devices (see 9.1.1.1, 2004 version 5.3.1);

--- Increased the requirements for the external contents of the package (see 9.3.4) and the rain and moisture requirements of the package (see 9.3.3);

--- Added and modified the corresponding test method.

This standard is proposed and managed by the National Forestry Machinery Standardization Technical Committee (SAC/TC61).

1 Scope

This standard specifies the terms and definitions, model preparation methods and basic parameters of the rotary knife step type electric lawn mower (hereinafter referred to as lawn mower).

Number, technical requirements, test methods, inspection rules, signs, instructions for use, packaging, transportation and storage.

This standard is applicable to lawn mowers with single-phase AC rated voltage not exceeding 250V and rated motor power not exceeding 3kW.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

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

GB/T 191 packaging storage and transportation icon GB 755 rotary motor rating and performance GB 1002 Single-phase plug and socket type and basic parameters and dimensions for household and similar purposes Household and similar plugs and sockets - Part 1. General requirements GB 4208 enclosure protection grade (IP code) GB 4343.1 Electromagnetic compatibility requirements for household appliances, power tools and similar appliances - Part 1 GB 4706.1-2005 Safety requirements for household and similar electrical appliances - Part 1. General requirements Safety of household and similar electrical appliances - Part 2. Particular requirements for walk control electric mowers GB/T 5013.4 Rubber insulated cables of rated voltages up to and including 450 750 s. Part 4. cords and flexible cables GB 5023.5 PVC insulated cables of rated voltages up to and including 450-750V. Part 5. Flexible cables (cords) GB/T 9969.1 General instructions for the use of industrial products GB/T 11918 plugs and couplers for industrial use - Part 1. General requirements GB/T 13264 Small batch count sampling inspection program and sampling table for non-conforming product rate General technical conditions for GB/T 13384 mechanical and electrical product packaging GB 17625.1 Electromagnetic compatibility limit harmonic current emission limit (device input current per phase $\leq 16A$) GB 17625.2 Electromagnetic compatibility limit for equipment with rated current $\leq 16A$ per phase and unconditionally connected Limitations of voltage variations, voltage fluctuations, and flicker generated in the system Safety of power transformers, power supply units and similar products - Part 1. General requirements and tests Safety of power transformers, power supply units and similar products - Part 7. General purpose safety isolating transformers special requirements GB 26509-2011 Safety technical requirements and tests for step-type lawn mowers powered by steam (chamber) oil machine method LY/T 1202-2010 Stepping lawn mower powered by gasoline engine LY/T 1570 Power Lawn and Garden Machinery Control Symbols and Safety Signs Terms and Definitions

3 Terms and definitions

The terms and definitions defined in GB 26509-2011 and GB 4706.1-2005 apply to this document.