

ICS 65.060.70  
CCS B 91

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

**LY/T 1121-1993**

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**AC electric chain saw  
(English Translation)**

**Issued on: September 7, 2022**

**Implemented on: January 1, 2023**

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**Issued by: State Forestry and Grassland Administration**

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### Foreword

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

This document replaces LY/T 1121-2010 "Garden Machinery Electric Chain Saw". Compared with LY/T 1121-2010, except for structural adjustment and in addition to editorial changes, the main technical changes are as follows.

- a) Changed the name of the file from "Garden Machinery Electric Chainsaw" to "AC Electric Chainsaw";
- b) The scope of application of the document has been changed, and the two types of "DC chainsaw" and "AC-DC dual-purpose electric chainsaw" have been deleted [see the 2010 edition 4.1, 5.1.4b)];
- c) Changed the content of normative references (see Chapter 2, Chapter 2 of the 2010 edition);
- d) Deleted the "function code" in the model compilation method (see 4.2 of the 2010 edition);
- e) Changed the applicable ambient air temperature for electric chain saws (see 5.1, 5.1.2 of the 2010 edition);
- f) The performance requirements and inspection methods of the electric chain saw with the specification "450 (18)" have been added to the performance of the whole machine (see Table 1 and Table 2);
- g) The content of requirements and inspection methods for "mechanical and electrical energy efficiency" has been added (see 5.2.2);
- h) The requirements and inspection methods for the "current" of electric chain saws are deleted (see 5.7.2, 6.6 of the 2010 edition);

- i) Changed the requirements for "saw chain linear speed" (see 5.2.3, 5.2 of the 2010 edition);
- j) The requirements and inspection content of "handle vibration" have been added (see 5.4.2);
- k) Added the requirements and inspection content of "immunity" in electromagnetic compatibility (see 5.4.3);
- l) The requirements and inspection content of "restricted substances" have been added, and relevant requirements have been added to the marking and instructions for use (see 5.4.5);
- m) The requirements and inspection content of "reliability and durability" have been added (see 5.5);
- n) The requirements and inspection content of "assembly quality" have been added (see 5.7);
- o) Changed the content of "packaging" (see 6.3, 8.2 of the 2010 edition);
- p) Deleted the content of "inspection rules" (see Chapter 7 of the 2010 edition).

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

## 1 Scope

This document specifies the terms and definitions, model compilation methods, technical requirements and test methods, signs, and instructions for AC electric chainsaws.

Books, packaging, transport and storage.

This document is applicable to the power supply of sinusoidal alternating current with rated voltage of 220V and rated frequency of 50Hz, which can be held by a single person with both hands.

Hand-held electric chainsaws (hereinafter referred to as "electric chainsaws") for sawing branches, wood and similar materials.

## 2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references for documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 3883.1 Safety of hand-held, portable electric tools and garden tools - Part 1: General requirements GB/T 3883.14 Safety of hand-held electric tools Part 2: Particular requirements for chainsaws GB 4343.1 Electromagnetic Compatibility Requirements for Household Appliances, Electric Tools and Similar Appliances Part 1: Emission GB/T 4343.2 Electromagnetic Compatibility Requirements for Household Appliances, Electric Tools and Similar Appliances Part 2: Immunity GB/T 9088 Modeling method of electric tools GB 17625.1 Electromagnetic Compatibility Limits Harmonic Current Emission Limits (Equipment Each Phase Input Current  $\leq 16A$ ) GB/T 17625.2 Electromagnetic Compatibility Limits For equipment with rated current  $\leq 16A$  per phase and unconditional access in public low-voltage power supply Limitation of voltage changes, voltage fluctuations and flicker generated in the system GB/T 26125 Determination of six restricted substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers) in electrical and electronic products GB/T 26572 Limit Requirements for Restricted Substances in Electrical and Electronic Products LY/T 1187 Forestry machinery chain saw saw chain LY/T 1188 Forestry machinery chain saw guide plate LY/T 2890 Portable Chainsaw Chain Brake Performance Test Method SJ/T 11364 Labeling Requirements for Restricted Use of Hazardous Substances in Electrical and Electronic Products

### 3 Terms and Definitions

The terms and definitions defined in GB/T 3883.1 and GB/T 3883.14 apply to this document.

### 4 Modeling method

The model establishment of the electric chain saw shall comply with the provisions of GB/T 9088, and the effective length of the guide plate (in millimeters, if multiple guide plates are configured, Choose the longest effective length of the guide plate) as the specification code, see Figure 1 for the specific preparation method.