

**Compliance Guide
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Garden shredders and chippers (electric mains-powered)

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This guide is intended to help market surveillance authorities with the checking of conformity of electric mains-powered garden shredders and chippers in the European Union. It should only be taken as suggestions or observations for consideration.

1. Introduction

Electric garden shredder/chipper in conformity with
EN 60335-1:2012/A2:2019 & EN 50434:2014



Key

1. Inlet feed
2. Prodder (optional)
3. Discharge/Collector box (optional)

Note:

1. *The standards indicated in this guide are the latest published versions.*
2. *The inspection of a product should be conducted using ONLY the standards as declared by the manufacturer in the D.o.C. delivered with the product.*

Electrically powered garden shredder

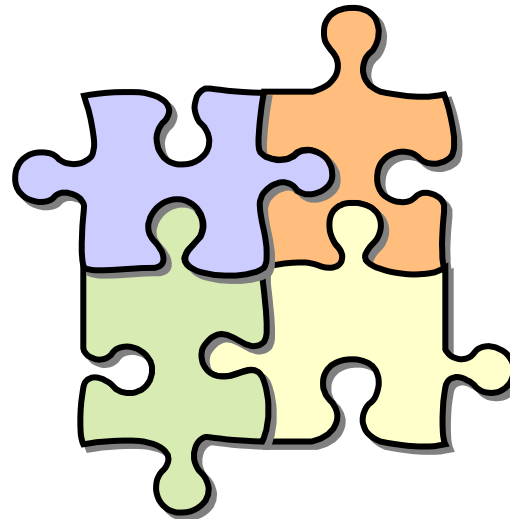
1. Introduction

Main EU technical Directives to be applied to electric garden shredders and chippers

Directive 2011/65/EU
RoHS
(as amended)
Restriction of Hazardous
Substances

Directive 2012/19/EU
WEEE
Waste Electrical &
Electronic Equipment

Directive 2006/42/EC
Machinery



Directive 2000/14/EC
(as amended)
Outdoor Noise

Directive 2014/30/EU
Electromagnetic Compatibility

1. Introduction

Is this garden shredder/chipper compliant with EU Directives?

- ✓ • This guide is intended for quick evaluation of electric garden shredder/chipper marking:
 - CE marking
 - Guaranteed sound power level

- ✓ • Documentation:
 - EU declaration of conformity (D.o.C.)
 - Instructions

- ✗ • This guide is not applicable for technical evaluations
- ✗ • This guide is not applicable to **combustion engine driven garden shredders**
- ✗ • This guide contains extracts of relevant regulations and does not claim completeness of contents

2. Machinery Identification CE Marking

Machinery Directive 2006/42/EC

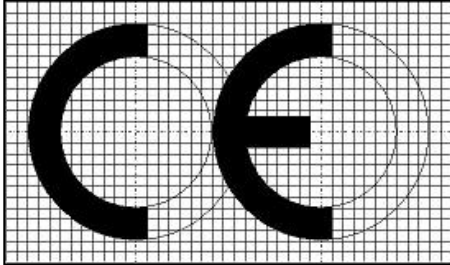


Illustration from 2006/42/EC

CE marking:


- The CE Conformity marking shall consist of the initials 'CE' as shown left;
- The CE marking shall be affixed to the machinery visibly, legibly and indelibly;
- The CE marking must include the minimum particulars (on the machine e.g. labelled, printed, embossed, etc.);
- The CE marking must be affixed in the immediate vicinity of the name of the manufacturer or his authorised representative, using the same technique.

Marking of machinery:

- Business name and address of the manufacturer and, where appointed, his authorised representative;
- Designation of the machinery (may be indicated by a code);
- Designation of series or type (may be indicated by a code and may be combined with the designation of the machinery);
- Serial number, if any;
- Year of construction/assembly.

3. Marking requirements

From EN 50434:2014

- For mains operated garden shredders and chippers:
 - Rated voltage or rated voltage range in Volts e.g. 230 V or 230-240 V
 - Nature of supply, e.g. 50 Hz or a.c. or ~
 - Symbol for class II machines,  if applicable
 - Rated power input in Watts or rated current in Amperes
 - Marking for IP rating, minimum IPX4

From WEEE Directive 2012/19/EU

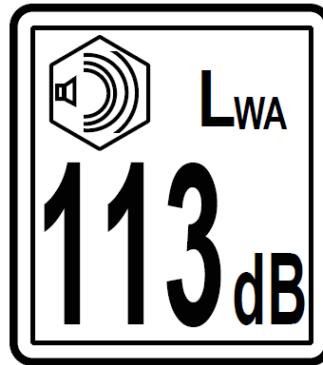
- Waste Electrical & Electronic Equipment



4. Marking / Outdoor Noise Label

Outdoor Noise Directive 2000/14/EC (as amended)

- The indication of the guaranteed sound power level must consist of
 - the single number of the guaranteed sound power in dB
 - the sign L_{WA} and
 - a pictogram taking the following form:



Example

- There are no noise limits for electric garden shredders and chippers but the noise marking and the declaration of the values in the instructions are required.

5. Documentation / Instructions

Machinery Directive 2006/42/EC

For clarification, consult the European Commission Guide to application of the Machinery Directive 2006/42/EC



- Machinery must be accompanied by instructions in the official Community language(s) of the Member State in which it is made available
- The instructions must contain at least the following information:
 - business name and full address of the manufacturer and, where appointed, his authorised representative;
 - descriptions and explanations necessary for safe use, adjustment and maintenance operations that should be carried out by the user, and preventive maintenance measures that should be taken;
 - a description of the intended use of the machinery;
 - warnings concerning ways in which the machinery must not be used that experience has shown might occur;
 - Noise emissions and hand-arm vibrations.

6. Documentation / EU Declaration of Conformity

2006/42/EC, 2000/14/EC, 2014/30/EU, 2011/65/EU

For clarification, consult the European Commission Guide to application of the Machinery Directive 2006/42/EC



The EU declaration of conformity (D.o.C.) must contain at least the following particulars:

- business name and full address of the manufacturer and, where appropriate, his authorised representative;
- name and address of the person authorised to compile the technical file, who must be established in the European Union;
- description and identification of the machinery including generic denomination, function, model, type, serial number and commercial name;
- a sentence expressly declaring that the machinery fulfils all the relevant provisions of all applicable Directives;
- the guaranteed and measured sound power level in accordance with the Outdoor Noise Directive 2000/14/EC;
- the place and date of the declaration of conformity;
- the identity and signature of the person empowered to draw up the declaration on behalf of the manufacturer or his authorised representative.

7. Warning text or pictograms on the machine*

- Read the user instructions, or



- DANGER – Rotating blades. Keep hands and feet out of openings while the machine is running, or



- Keep bystanders away, or



- WARNING Switch off and remove plug from the mains before adjusting, cleaning or if the cord is entangled or damaged, or



* If pictograms are used, they must be explained in the instructions

* If text is used, it must be in the official language(s) of the country where the product is sold