

Household electrical hair care appliances — Methods of measuring the performance

The European Standard EN 61855:2003 has the status of a
British Standard

ICS 97.170

National foreword

This British Standard is the official English language version of EN 61855:2003. It is identical with IEC 61855:2003.

The UK participation in its preparation was entrusted to Technical Committee CPL/59, Performance of electrical appliances, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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**Household electrical hair care appliances -
Methods of measuring the performance
(IEC 61855:2003)**

Appareils électrodomestiques
destinés aux soins des cheveux -
Méthodes de mesure de l'aptitude
à la fonction
(CEI 61855:2003)

Elektrische Haarpflegegeräte
für den Hausgebrauch -
Verfahren zur Messung
der Gebrauchseigenschaften
(IEC 61855:2003)

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 59/307/FDIS, future edition 1 of IEC 61855, prepared by IEC TC 59, Performance of household electrical appliances, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61855 on 2003-03-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2003-12-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-03-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annex ZA is normative and annexes A and B are informative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61855:2003 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60335-2-23 NOTE Harmonized as EN 60335-2-23:1996 (not modified).

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INTRODUCTION

This standard does not deal with hair care appliances with radiant heating or with helmet dryers (see Scope) for the following reasons:

- the test methods are likely to be complicated and expensive and they might not be sufficiently repeatable;
- suitable and or proven test methods are not known at present;
- developing of test methods for these appliances will incur considerable costs;
- the market shares of these appliances are rather small.

National Committees who consider that hair care appliances with radiant heating and helmet dryers should be included into maintenance activities are requested to submit proposals suitable for the corresponding test method.

HOUSEHOLD ELECTRICAL HAIR CARE APPLIANCES – METHODS FOR MEASURING THE PERFORMANCE

1 Scope

This International Standard applies to electrical appliances for household and similar use for drying and styling hair (including their accessories).

This standard defines the main performance characteristics that are of interest to the user and specifies methods of measuring these characteristics.

The measuring procedures are developed for comparable tests.

This standard does not specify requirements for performance.

This standard does not cover hair care appliances with radiant heating, helmet-type dryers or cutting devices.

NOTE 1 This standard does not deal with safety requirements (IEC 60335-2-23).

NOTE 2 Due to the influence of environmental conditions, variations in time, origin of test materials and proficiency of the operator, most of the described test methods will give more reliable results when applied for comparative testing of a number of appliances at the same time, in the same laboratory and by the same operator.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60584-2, *Thermocouples – Part 2: Tolerances*

IEC 60704-2-9, *Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-9: Particular requirements for electrical hair care appliances*¹

IEC 61254, *Electric shavers for household use – Methods for measuring the performance*

IEC/TR 61592, *Household electrical appliances – Guidelines for consumer panel testing*

ISO 2267:1986, *Surface active agents – Evaluation of certain effects of laundering- Methods of preparation and use of unsoiled cotton control cloth*

3 Definitions

For the purpose of this document, the following definitions apply.

3.1

hairstyling appliance

appliance for styling or curling hairs

NOTE Hairstyling appliances may comprise brushes and combs.

¹ To be published.

3.2

hairstyling appliance with warm air

hairstyling appliance in which a stream of warm air is produced for drying and styling the hair

3.3

curling appliance

appliance in which heat is produced for styling dry hair.

NOTE The hair may contain a small quantity of residual moisture.

3.4

curling set

set of rollers that can be heated for styling hair.

3.5

concentrator

accessory for directing the air flow.

3.6

diffuser

accessory providing a wide distribution of the airflow.

NOTE For the purposes of this standard, a volumiser is considered to be a diffuser.

3.7

rated voltage

voltage assigned to the appliance by the manufacturer.

3.8

rated frequency

frequency assigned to the appliance by the manufacturer.

4 List of measurements and tests

Depending on the appliance, the following measurements or tests shall be carried out, as appropriate:

- mass, according to 6.1;
- length of the flexible cord, according to 6.2;
- power input, according to 6.3;
- heating-up time, according to 6.4;
- temperatures, according to 6.5;
- air flow of hand-held hairdryers and hairstyling appliances with warm air, according to 6.6;
- drying rate, according to 6.7;
- attachment of accessories, according to 6.8;
- ease of handling, according to 6.8.2;
- features, according to clause 8;
- instructions for use, according to clause 9;
- airborne acoustical noise, according to clause 7;
- drop test according to 6.9.