



BSI Standards Publication

Household electric direct-acting room heaters – Methods for measuring performance

National foreword

This British Standard is the UK implementation of EN 60675:1995+A11:2019. It is derived from IEC 60675:1994, incorporating amendment 1:1998 and amendment 2:2018. It supersedes BS EN 60675:1995+A2:2018, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to text carry the number of the amendment. For example, text altered by IEC amendment A1 is indicated by A1 A1.

Text altered by CENELEC amendment A11 is indicated by A11 A11.

The UK participation in its preparation was entrusted to Technical Committee CPL/59, Performance of household electrical appliances.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Amendments/corrigenda issued since publication

Date	Text affected
31 March 1999	Implementation of IEC amendment 1:1998 with CENELEC endorsement A1:1998
31 December 2018	Implementation of IEC amendment 2:2018 with CENELEC endorsement A2:2018
31 October 2019	Implementation of CENELEC amendment A11:2019

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60675:1995+A11

August 2019

ICS 97.100

English Version

**Household electric direct-acting room heaters Methods
for measuring performance (IEC 675:1994)**

Appareils electrodomestiques de chauffage des
locaux a action directe Methodes de mesure
de l'aptitude a la fonction (CEI 675:1994)

Elektrische Haushalt-Direktheizgerate
Prufverfahren zur Bestimmung der
Gebrauchseigenschaft (IEC 675:1994)

This European Standard was approved by CENELEC on 1994-12-06. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

The text of document 59C(C0)51, future edition 2 of IEC 675, prepared by SC 59C, Heating appliances, of IEC TC 59, Performance of household electrical appliances, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60675 on 1994-12-06.

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) 1996-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1996-02-01

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

Annexes designated "informative" are given for information only.

In this standard, [annexes A](#) and [ZA](#) are normative and [annexes B](#), [C](#) and [D](#) are informative.

[Annex ZA](#) has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 675:1994 was approved by CENELEC as a European Standard without any modification.

In the official version, for [annex D](#), Bibliography, the following notes have to be added for the standards indicated:

IEC 335-2-30 NOTE: Harmonized as EN 60335-2-30:1992 (modified).

IEC 704-2-2 NOTE: Harmonized as HD 423.2.2 S1:1988 (not modified).

Foreword to amendment A1

The text of document 59C/81/FDIS, future amendment 1 to IEC 60675:1994, prepared by SC 59C, Heating appliances, of IEC TC 59, Performance of household electrical appliances, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 60675:1995 on 1998-08-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1999-05-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2001-05-01

Endorsement notice

The text of amendment 1:1998 to the International Standard IEC 60675:1994 was approved by CENELEC as an amendment to the European Standard without any modification.

Foreword to amendment A2

The text of document 59C/223/CDV, future edition 1 of IEC 60675:1994/A2, prepared by CLC/SC 59C "Heating appliances" of IEC/TC 59 "Performance of household electrical appliances" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60675:1995/A2:2018.

The following dates are fixed:

- latest date by which this document has to be implemented at (dop) 2019-04-26
national level by publication of an identical national standard or
by endorsement
- latest date by which the national standards conflicting with this (dow) 2021-10-26
document have to be withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60675: 1994/A2: 2018 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A11

This document (EN 60675:1995/A11:2019) has been prepared by CLC/TC 59X/WG 12 "Electric room heating appliances".

The following dates are fixed:

- latest date by which this document has to be implemented at (dop) 2020-03-17
national level by publication of an identical national standard or
by endorsement
- latest date by which the national standards conflicting with this (dow) 2022-06-17
document have to be withdrawn

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

The purpose of this amendment is to specify essential performance characteristics of direct acting room heaters and to describe methods for measuring of these characteristics related to EU Commission regulation (EU) No 2015/1188 and standardization request from the EU Commission M/550.

Annex ZA (normative)

Other international publications quoted in this standard with the references of the relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

NOTE: When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

<u>IEC Publication</u>	<u>Date</u>	<u>Title</u>	<u>EN/HD</u>	<u>Date</u>
584-1	1977	Thermocouples — Part 1: Reference tables	HD 446.1 SI	1984

Annex ZZ (informative)

Relationship between this European Standard and the Ecodesign requirements of Commission regulation EU No 2015/1188 aimed to be covered

This European standard has been prepared under a Commission's standardization request "M/550" / "C(2016) 7772 final" to provide one voluntary means of conforming to the ecodesign requirements of Commission regulation EU No 2015/1188 of 30th November 2016 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for local space heaters OJEU L 193 of 21 July 2015.

Once this standard is cited in the Official Journal of the European Union under that Regulation, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding ecodesign requirements of that Regulation and associated EFTA Regulations.

Table ZZ.1 – Correspondence between this European Standard and Commission Regulation EU No 2015/1188 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for local space heaters [OJEU L 193 of 21 July 2015] and Commission's standardization request M/550 / C (2016) 7772 final

Ecodesign requirements of regulation EU No 2015/1188 [OJEU L 193]	Clause(s) / sub clause(s) of this EN	Remarks / Notes
Seasonal space heating energy efficiency	Clause 3 - Definition of product categories Clause 17 - Control type and functionality	
Information requirements for electric local space heaters	3.22, 3.23, 3.24 - auxiliary electricity consumption Clause 16 - Heat output	
Methods to verify control types and functionality	Clause 17	

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Contents

Page

FOREWORD	ii
1 Scope	1
2 Normative reference	1
3 Definitions	1
4 Classification	6
4.1 According to type	6
4.2 According to regulating features	7
5 List of measurements	7
6 General conditions for measurements	8
7 Dimensions, mass and means of connection to the supply	9
8 Temperature rises of air-outlet grilles and external surfaces	9
9 Temperature rises of surfaces surrounding the heater	10
10 Warming-up time of the heater	10
11 Stability of room temperature	10
11.1 Basic method of evaluation	10
11.2 Method for a family of heaters	11
12 Set-back	11
13 Frost protection temperature	12
14 Inrush current	12
15 Effect of radiant heat	12
16 Measurement of the heat output	13
17 Requirements to comply with functions according to ecodesign regulation	13
17.1 General	13
17.2 Product equipped with single stage heat output, no room temperature control	13
17.3 Product equipped with two or more manual stages, no room temperature control	13
17.4 Product equipped with mechanical room temperature control	13
17.5 Product equipped with electronic room temperature control	14
17.6 Product equipped with electronic room temperature control plus day timer	14
17.7 Product equipped with electronic room temperature control plus week timer	14
17.8 Product equipped with room temperature control, with presence detection	15
17.9 Product equipped with room temperature control, with open window detection	15
17.10 Product equipped with distance control option	16
17.11 Product equipped with adaptive start control	16
17.12 Product equipped with working time limitation	16
17.13 Product equipped with black bulb sensor	16
18 Verification of the maximum room temperature promoted by the manufacturer	13
Annex A (normative) Climatic test room	19
Annex B (informative) Information provided at point-of-sale	21
Annex C (informative) Test report form	22
Annex C (informative) Relationship between this European Standard and the Ecodesign requirements of Commission regulation EU No 2015/1188 aimed to be covered	25
Annex D (informative) Bibliography	26

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

International standard IEC 675 has been prepared by sub-committee 59C: Heating appliances, of IEC technical committee 59: Performance of household electrical appliances.

It forms the second edition of IEC 675 and replaces the first edition.

The text of this standard is based on the first edition and the following documents.

DIS	Report on voting
59C(C0)51	59C(C0)54

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

[Annexes B](#) to [Dare](#) for information only.

[Annex A](#) forms an integral part of this standard.

In this standard, the following print types are used:

- *test specifications: in italic type*
- notes: in small roman type
- other texts: in roman type

Words in **bold** in the text are defined in [clause 3](#).

Household electric direct-acting room heaters – Methods for measuring performance

1 Scope

A11 This standard applies to electric **direct-acting room heaters**. They may be portable, stationary, fixed, or built-in.

It does not apply to:

- thermal-storage room heaters (EN 60531);
- heating appliances incorporated in the building structure;
- central heating systems;
- heaters connected to an air duct;
- wall-paper, carpets or drapes incorporating flexible heating elements;
- sauna stoves.

This standard defines the main performance characteristics of **direct-acting room heaters** and specifies methods for measuring these characteristics, for the information of users.

This standard does not specify values for performance characteristics.

NOTE This standard does not deal with:

- safety requirements (EN 60335-2-30);
- acoustical noise of **fan heaters** (EN 60704-2-2). **A11**

2 Normative reference

A11 The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 60584-1:2013, *Thermocouples - Part 1: EMF specifications and tolerances (IEC 60584-1:2013)* **A11**

3 **A11** Terms and Definitions **A11**

A11 For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

local space heater (as defined in EU regulation (EU) No 2015/1188)

space heating device that emits heat by direct heat transfer or by direct heat transfer in combination with heat transfer to a fluid, in order to reach and maintain a certain level of human thermal comfort within an enclosed space in which the product is situated, possibly combined with a heat output to other spaces and is equipped with one or more heat generators that convert electricity or gaseous or liquid fuels directly into heat, through use of the Joule effect or combustion of fuels respectively