

Specification for

Safety of household and similar electrical appliances

Part 2. Particular requirements

Section 2.29 Battery chargers

The European Standard EN 60335-2-29 : 1996 with the inclusion of amendment A11 : 1997 has the status of a British Standard

ICS 97.180

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by Technical Committee CPL/61, Safety of electrical appliances, to Subcommittee CPL/61/24, Battery chargers, upon which the following bodies were represented:

Agricultural Engineers Association
Association of Control Manufacturers
Association of Manufacturers of Domestic Electrical Appliances
British Electrotechnical Approvals Board
Consumer Policy Committee of BSI
Society of Motor Manufacturers and Traders Ltd
Rotating Electrical Machines Association (BEAMA Ltd)
Electricity Association
Department of Trade and Industry - Consumer Safety Unit, CA Division

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on
15 May 1997

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First published August 1991
Second edition May 1997

The following BSI references relate to the work on this standard:
Committee reference CPL/61/24
Draft for comment 93/209173 DC

ISBN 0 580 27374 1

Amendments issued since publication

Amd. No.	Date	Text affected
9989	May 1998	Indicated by a double sideline in the margin. Addition of new annex ZAA.

Summary of pages

The following table identifies the current issue of each page. Issue 1 indicates that a page has been introduced for the first time by amendment. Subsequent issue numbers indicate an updated page. Double vertical sidelining on replacement pages indicates the most recent changes (amendment, addition, deletion).

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National foreword

This British Standard has been prepared by Subcommittee CPL/61/24 and is the English language version of EN 60335-2-29 : 1996, *Safety of household and similar electrical appliances Part 2 : Particular requirements for battery chargers*, including amendment A11 : 1997 published by the European Committee for Electrotechnical Standardization (CENELEC). It was derived by CENELEC from IEC 335-2-29 : 1994, published by the International Electrotechnical Commission (IEC).

This British Standard supersedes BS EN 60335-2-29 : 1991 which will be withdrawn on 1 April 1999 in accordance with the CENELEC Internal Regulations. Certificates and marks will not be awarded after this date with respect to BS EN 60335-2-29 : 1991. However, such certificates and marks, already awarded, may continue to apply for production until 1 April 2004.

The CENELEC common modifications have been implemented at the appropriate places in the text and are indicated by a side line in the margin.

This British Standard is to be read in conjunction with BS EN 60335-1 : 1995 *Specification for safety of household and similar electrical appliances Part 1: General requirements*, and amendment No.1 : 1995. The many references to Part 1 should be read as references to BS EN 60335-1, which is the English language version of EN 60335-1 : 1994 which was derived from the second impression, 1993, of IEC publication 335-1 (third edition 1991). Amendments and revisions of Part 1 have also to be taken into account and the dates when such changes become applicable will be stated in the relevant amendment or revision of Part 1.

Product approval. Attention is drawn to the fact that products conforming to this British Standard may be approved by the British Electrotechnical Approvals Board for the purposes of participation in the CENELEC Certification Agreement and in the CB Scheme of the IECEE. (Details of the BEAB Approval Scheme are given on the inside back cover.)

Cross-reference

Publication referred to	Corresponding British Standard
EN 60068-2-6 : 1995	BS EN 60068 <i>Environmental testing</i> Part 2 <i>Test methods</i> Section 2.6 : 1996 <i>Test Fc. Vibration (sinusoidal)</i>

From 1 January 1997, all IEC publications have the number 60000 added to the old number. For instance, IEC 27-1 has been renumbered as IEC 60027-1. For a period of time during the change over from one numbering system to the other, publications may contain identifiers from both systems.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Descriptors: Household electrical appliances, battery chargers, safety requirements, protection against electric shock, fire protection, protection against mechanical hazard

English version

Safety of household and similar electrical appliances Part 2: Particular requirements for battery chargers

(includes amendment A11 : 1997)

(IEC 335-2-29 : 1994, modified)

Sécurité des appareils électrodomestiques
et analogues
Partie 2: Règles particulières pour les chargeurs
de batterie
(inclut l'amendement A11 : 1997)
(CEI 335-2-29 : 1994, modifiée)

Sicherheit elektrischer Geräte für den
Hausgebrauch und ähnliche Zwecke
Teil 2: Besondere Anforderungen
für Batterieladegeräte
(enthält Änderung A11 : 1997)
(IEC 335-2-29 : 1994, modifiziert)

This European Standard was approved by CENELEC on 1996-10-01. 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.

CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

Foreword

The proposal to endorse IEC 335-2-29:1994, document CLC/TC 61 (SEC) 990, was circulated under the enquiry procedure in December 1994. This proposal was discussed during the Amsterdam meeting in September 1995, when it was decided to submit a draft for EN 60335-2-29 to the formal vote.

This draft was circulated in March 1996 and was ratified by CENELEC as EN 60335-2-29 on 1996-10-01.

This European Standard has been prepared by the secretariat of CENELEC Technical Committee TC 61.

The following dates are applicable:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 1997-04-01
- date on which national standards
conflicting with the EN have to be withdrawn (dow) 1999-04-01

For products which have complied with EN 60335-2-29:1991 including its amendment A2:1993 before 1999-04-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2004-04-01.

This standard has to be used in conjunction with EN 60335-1, Safety of household and similar electrical appliances, Part 1: General requirements. It was established on the basis of the 1994 edition of that standard. Amendments and revisions of part 1 have also to be taken into account and the dates when such changes become applicable will be stated in the relevant amendment or revision of part 1.

This part 2 supplements or modifies the corresponding clauses of EN 60335-1, so as to convert it into the European Standard: Safety requirements for electric battery chargers.

Where a particular subclause of part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. Where this standard states "addition", "modification" or "replacement", the relevant text of part 1 is to be adapted accordingly.

Subclauses and figures which are additional to those in part 1 are numbered starting with 101.

Special national conditions causing a deviation from this European Standard are listed in annex ZA and are in addition to those in EN 60335-1.

There are no national deviations from this European Standard, other than those listed in annex ZB to EN 60335-1.

NOTE - The following print types are used:

- requirements: in roman type;
- test specifications: in italic type;
- notes: in small roman type.

Words in **bold** in the text are defined in clause 2. When a definition of part 1 concerns an adjective, the adjective and the associated noun are also in bold.

Foreword to amendment A11

A proposal to amend EN 60335-2-29:1996, document CLC/TC 61 (SEC) 1049, was circulated under the enquiry procedure in September 1995. This proposal was discussed during the Copenhagen meeting in May 1996, when it was decided to submit a draft for an amendment to EN 60335-2-29 to the formal vote.

This draft was circulated as prAA in May 1997 and was approved by CENELEC as amendment A11 on 1997-10-01.

This amendment has been prepared by the secretariat of CENELEC Technical Committee TC 61.

The following dates are applicable:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1998-07-01
- date on which national standards conflicting with the amendment have to be withdrawn (dow) 2000-07-01

For products which have complied with the relevant national standard before 2000-07-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2004-07-01.

This amendment supplements or modifies the corresponding clauses of EN 60335-2-29:1996.

There are no special national conditions causing a deviation from this amendment.

There are no national deviations from this amendment.

NOTE - Amendment numbers commencing A1 refer to the endorsement of IEC amendments, while those commencing A11 originate in CENELEC.