

Specification for

Performance requirements for ballasts for discharge lamps (excluding tubular fluorescent lamps)

This European Standard EN 60923 : 1991 has the status of a
British Standard

Ballasts pour lampes à décharge (à l'exclusion
des lampes tubulaires à fluorescence)
Prescriptions de performances

Vorschaltgeräte für Entladungslampen
(ausgenommen röhrenförmige
Leuchtstofflampen)
Anforderungen an die Arbeitsweise

Cooperating organizations

The European Committee for Electrotechnical Standardization (CENELEC), under whose supervision this European Standard was prepared, comprises the National Committees of the following countries:

Austria	Italy
Belgium	Luxemburg
Denmark	Netherlands
Finland	Norway
France	Portugal
Germany	Spain
Greece	Sweden
Iceland	Switzerland
Ireland	United Kingdom

This British Standard was published under the authority of the Standards Board and comes into effect on 31 July 1991

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The following BSI references relate to the work on this standard:
Committee reference LGL/21
Draft for comment 86/25169 DC

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Amendments issued since publication

Amd. No.	Date	Text affected



Amendment No. 1
published and effective from 15 December 1992
to BS EN 60923 : 1991

Specification for performance requirements
for ballasts for discharge lamps
(excluding tubular fluorescent lamps)

NOTE. The English language version of European Standard EN 60923 was implemented in the United Kingdom by the publication of BS EN 60923 : 1991. This amendment implements amendment A1 to EN 60923. This amendment together with the European Standard EN 60923 : 1991 has the status of a British Standard. Amendment A1 to EN 60923 included the modifications to A.2.2 and figure 1 given in the IEC corrigenda of April 1989 and October 1989; as these modifications were made in the published text of BS EN 60923, they are not included in this amendment.

Revised text

AMD 7434
December 1992

National foreword

Delete paragraph 1 and substitute the following.

'This British Standard has been prepared under the direction of the Electrical Illuminations Standards Policy Committee and is the English language version of EN 60923 'Ballasts for discharge lamps (excluding tubular fluorescent lamps) — Performance requirements' and its Amendment 1 which were published by the European Committee for Electrotechnical Standardization (CENELEC). It was derived from IEC 923 : 1988, its corrigenda of April 1989 and October 1989 and its Amendment 1 : 1990 published by the International Electrotechnical Commission (IEC).'

Delete paragraph 3.

AMD 7434
December 1992

EN amendment title page and foreword

Insert the attached EN amendment title page (foreword on reverse).

AMD 7434
December 1992

Text of EN 60923

Amend the text of European Standard EN 60923 in accordance with the details given on the attached pages.

UDC 621.327.2:621.316.8

Descriptors: Lighting equipment, discharge lamp, mercury vapor lamp, sodium vapour lamp, reference ballast, electrical characteristic, performance characteristic, marking

Amendment A1 to the English version of EN 60923

Ballasts for discharge lamps (excluding tubular fluorescent lamps) – Performance requirements (IEC 923 : 1988/A1 : 1990)

Ballasts pour lampes à décharge
(à l'exclusion des lampes tubulaires à
fluorescence)
Prescriptions de performances
(CEI 923 : 1988/A1 : 1990)

Vorschaltgeräte für Entladungslampen
(ausgenommen röhrenförmige Leuchtstofflampen)
Anforderungen an die Arbeitsweise
(IEC 923 : 1988/A1 : 1990)

This amendment A1 modifies the European Standard EN 60923 : 1991. It was approved by CENELEC on 1992-06-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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 CENELEC questionnaire procedure, performed for finding out whether or not amendment 1 : 1990 to the International Standard IEC 923 : 1988 could be accepted without textual changes, has shown that no common modifications were necessary for the acceptance as an amendment to the European Standard.

The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as amendment A1 to EN 60923 on 16 June 1992.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1993-06-01
- latest date of withdrawal of conflicting national standards (dow) 1993-06-01

For products which have complied with EN 60923 : 1991 before 1993-06-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1998-06-01.

Annexes designated 'normative' are part of the body of the standard. In this standard, annex ZA is normative.

8. Current waveform

Delete Sub-clause 8.1 and replace it with the following:

8.1 Supply current waveform

The harmonics of the input current for luminaires are required to comply with IEC Publication 555-2.

Note.- The above requirements apply to luminaires or ballasts which are intended to be connected to supplies prescribed in Clause 4 of IEC Publication 555-2.

If the separate tests with reference lamps have proved that ballasts for discharge lamps comply with the requirements as specified in the relevant table of IEC Publication 555-2, the luminaire is deemed to comply with these requirements and need not be checked. Manufacturers shall indicate whether or not the ballast under test shall be subjected to the following test.

Where these components have not been approved separately or do not comply, the luminaire itself shall be tested and shall comply.

The test is carried out in accordance with the requirements of Sub-clause 8.3.

The ballast shall be operated at its rated voltage with a reference lamp or lamps. After lamp stabilization, the waveform of the supply current shall be such that the harmonics shall not exceed the limits given in the relevant table of IEC Publication 555-2.

Annex ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

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

IEC publication	Date	Title	EN/HD	Date
555-2, mod + A2	1982 1988	Disturbances in supply systems caused by household appliances and similar electrical equipment – Part 2: Harmonics	EN 60555-2* —	1987 —

*EN 60555-2 includes A1 : 1985 to IEC 555-2

Amendment No. 2
published and effective from 15 May 1993
to BS EN 60923 : 1991

**Specification for performance requirements for ballasts for
discharge lamps (excluding tubular fluorescent lamps)**

Correction

National appendix NA (as amended by Amendment no. 1)

In Amendment no. 1, in lines 1 and 6 of the amendment instruction for national appendix NA, 'IEC 921 : 1988' should read 'IEC 923 : 1988'.

In the preface of Amendment 1 to IEC 923 : 1988 (as inserted by Amendment no. 1) delete:

'Preface of Amendment 1 to IEC 921 : 1988'

and substitute:

'Preface of Amendment 1 to IEC 923 : 1988'.

AMD 7749/May 1993

Amendment No. 3
published and effective from 15 October 1995
to BS EN 60923 : 1991

Specification for performance requirements for ballasts for
discharge lamps (excluding tubular fluorescent lamps)

NOTE. The English language version of European Standard EN 60923 was implemented in the United Kingdom by the publication of BS EN 60923: 1991. This amendment implements Amendment A2 to EN 60923, which includes Amendment No. 2 : 1994 to IEC 923. This amendment together with the European Standard EN 60923 : 1991 has the status of a British Standard.

Revised text

National foreword (as amended by Amendment No. 1 and No. 2)

Delete the existing paragraph 1 and substitute the following.

This British Standard has been prepared under the direction of the Electrical Consumer and Process Products Committee and is the English language version of EN 60923 and its Amendments 1 and 2 'Ballasts for discharge lamps (excluding tubular fluorescent lamps) — Performance requirements' which was derived from IEC 923 : 1988 and its Amendments No. 1 : 1992 and No. 2 : 1994 published by the International Electrotechnical Commission (IEC).

The foreword of the EN makes reference to 'date of withdrawal (dow) of conflicting national standards' as '1996-03-15'. In this case the relevant national standard is BS EN 60923 but the date of withdrawal relates only to those parts of the British Standard subject to Amendment No. A2. Certificates and marks will not be awarded after this date with respect to the British Standard not incorporating Amendment No. A2. They will be awarded only to the amended British Standard. However, such certificates and marks already awarded with respect to the British Standard not incorporating Amendment No. A2 may continue to apply for production until 2001-03-15.

AMD 8823/October 1995

EN amendment title page and foreword

After the existing EN title page insert the attached EN amendment title page (foreword on reverse).

AMD 8823/October 1995

Text of EN 60923

Amend the text of European Standard EN 60923 in accordance with the details given on the attached pages.

AMD 8823/October 1995

UDC 621.327.2:621.316.8

ICS 29.140.30

Descriptors: Lighting equipment, discharge lamp, mercury vapor lamp, sodium vapor lamp, reference ballast, electrical characteristic, performance characteristic, marking

English version

Ballasts for discharge lamps (excluding tubular fluorescent lamps) Performance requirements

(IEC 923 : 1988/A2 : 1994)

Ballasts pour lampes à décharge
(à l'exclusion des lampes tubulaires à
fluorescence)
Prescriptions de performances
(CEI 923 : 1988/A2 : 1994)

Vorschaltgeräte für Entladungslampen
(ausgenommen röhrenförmige Leuchtstofflampen)
Anforderungen an die Arbeitsweise
(IEC 923 : 1988/A2 : 1994)

This amendment A2 modifies the European Standard EN 60923 : 1991; it was approved by CENELEC on 1995-03-06. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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