



SLOVENSKI STANDARD

SIST EN 60065:2015

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Nadomešča:

SIST EN 60065:2003

SIST EN 60065:2003/A1:2006

SIST EN 60065:2003/A11:2009

SIST EN 60065:2003/A12:2011

SIST EN 60065:2003/A2:2011

Avdio, video in podobni elektronski aparati - Varnostne zahteve

Audio, video and similar electronic apparatus - Safety requirements

(standards.iteh.ai)

Audio-, Video- und ähnliche elektronische Geräte - Sicherheitsanforderungen

[https://standards.iteh.ai/catalog/standards/sist/fcd82bc5-e73b-4af6-984a-](https://standards.iteh.ai/catalog/standards/sist/fcd82bc5-e73b-4af6-984a-cf6704730e2a/sist-en-60065-2015)

Appareils audio, vidéo et appareils électroniques analogues - Exigences de sécurité

Ta slovenski standard je istoveten z: EN 60065:2014

ICS:

33.160.01	Avdio, video in avdiovizualni sistemi na splošno	Audio, video and audiovisual systems in general
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<https://standards.iteh.ai/catalog/standards/sist/fcd82bc5-e73b-4af6-984a-cf6704730e2a/sist-en-60065-2015>

EUROPEAN STANDARD

EN 60065

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2014

ICS 97.020

Supersedes EN 60065:2002

English Version

Audio, video and similar electronic apparatus - Safety requirements (IEC 60065:2014, modified)

Appareils audio, vidéo et appareils électroniques analogues
- Exigences de sécurité
(CEI 60065:2014, modifiée)

Audio-, Video- und ähnliche elektronische Geräte -
Sicherheitsanforderungen
(IEC 60065:2014, modifiziert)

This European Standard was approved by CENELEC on 2014-11-17. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

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

Foreword

This document (EN 60065:2014) consists of the text of IEC 60065:2014 prepared by IEC/TC 108 "Safety of electronic equipment within the field of audio/video, information technology and communication technology", together with the common modifications prepared by CLC/TC 108X "Safety of electronic equipment within the fields of Audio/Video, Information Technology and Communication Technology".

The following dates are fixed:

- latest date by which the document has to be implemented at national level (dop) 2015-11-17
by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-11-17

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

EN 60065:2014 supersedes EN 60065:2002.

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 60065:2014 are prefixed "Z".

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 60065:2014 was approved by CENELEC as a European Standard with the following common modifications.

COMMON MODIFICATIONS

Contents

Add the following:

Z1 Protection against excessive sound pressure from personal music players

Annex ZA (normative) Normative references to international publications with their corresponding European publications

Annex ZB (normative) Special national conditions

Annex ZC (informative) A-deviations

Annex ZD (informative) IEC and CENELEC code designations for flexible cords

Annex ZE (informative) Significance of $L_{Aeq,T}$ in EN 50332-1 and additional information

Figure Z1 – Warning label (IEC 60417-6044)

Figure ZE.1

Table ZD.1 – IEC and CENELEC code designations for flexible cords

<https://standards.iteh.ai/catalog/standards/sist/1cd82bc5-e73b-4af6-984a-cf6704730e2a/sist-en-60065-2015>

Whole text

Delete all the “country” notes in the reference document according to the following list:

1.1.3	Note 2	5.4	Note	5.5.2	Note 1 and Note 2
13.3.1	Note 4	14.1	Note 1 and Note 2	15.1.1	Note 1 and Note 2
15.2	Note 2	16.1	Note 2	16.2	Note
20	Note	J.3 Table J.1	Note 1 and Note 2		

For special national conditions, see Annex ZB.

1.2 Normative references

Add the following:

EN 71-1, *Safety of toys – Part 1: Mechanical and physical properties*

EN 50332-1, *Sound system equipment: Headphones and earphones associated with personal music players – Maximum sound pressure level measurement methodology – Part 1: General method for "one package equipment"*

EN 50332-2, *Sound system equipment: Headphones and earphones associated with personal music players – Maximum sound pressure level measurement methodology – Part 2: Matching of sets with headphones if either or both are offered separately, or are offered as one package equipment but with standardised connectors between the two allowing to combine components of different manufacturers or different design*

3 General requirements

3.Z1 After 3.4, **add** the following:

3.Z1 Protective devices

To protect against excessive current, short-circuits and earth faults in MAINS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):

- a) except as detailed in b) and c), protective devices necessary to comply with the requirements of Clause 11 shall be included as parts of the equipment;
- b) for components in series or parallel with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;
- c) it is permitted for equipment supplied via an industrial mains plug or for PERMANENTLY CONNECTED APPARATUS, to rely on dedicated over current and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.

If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for apparatus not supplied via an industrial mains plug or for PERMANENTLY CONNECTED APPARATUS the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.

4 General test conditions

4.1.1 **Replace** the text of the note by:

NOTE For ROUTINE TEST, reference is made to EN 50514:2008.

6 Hazardous radiations

6.1 **Replace** the entire subclause by the following:

Apparatus including a potential source of ionizing radiation shall be so constructed that personal protection against ionizing radiation is provided under normal operating conditions and under fault conditions.

Compliance is checked by measurement under the following conditions:

In addition to the normal operating conditions, all controls adjustable from the outside BY HAND, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.

NOTE 1 Soldered joints and paint lockings are examples of adequate locking.

The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus

Moreover, the measurement shall be made under fault conditions causing an increase of the high-voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.

The dose-rate shall not exceed 1 μSv/h (0,1 mR/h) taking account of the background level.

NOTE 2 These values appear in Council Directive 96/29/Euratom of 13 May 1996.

A picture is considered to be intelligible if the following conditions are met:

- *a scanning amplitude of at least 70 % of the usable screen width;*
- *a minimum luminance of 50 cd/m² with locked blank raster provided by a test generator;*
- *a horizontal resolution corresponding to at least 1,5 MHz in the centre, with a similar vertical degradation;*
- *not more than one flashover per 5 min.*

16 External flexible cords

16.1 Add the following note after the first paragraph:

NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.

Z1 Protection against excessive sound pressure from personal music players

Z1 Add the following new clause after 20.3.3:

Z1 Protection against excessive sound pressure from personal music players

Z1.1 General

This subclause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. Requirements for earphones and headphones intended for use with personal music players are also covered.

A personal music player is a portable equipment for personal use, that:

- is designed to allow the user to listen to recorded or broadcast sound or video; and
- uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and
- is body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around while in use.

EXAMPLES CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.

A personal music player shall comply with the requirements of this subclause.

NOTE 1 Protection against acoustic energy sources from telecom terminal equipment is referenced to ITU-T Recommendation P.360.

The requirements in this subclause are valid for music or video mode only.

The requirements do not apply to:

- professional equipment;

NOTE 2 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.

- hearing aid equipment and other devices for assistive listening;
- the following types of analogue personal music players:
 - long distance radio receiver (for example, a multiband radio receiver or a world band radio receiver, an AM radio receiver) and
 - cassette player/recorder;

NOTE 3 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.

- player while connected to an external amplifier that does not allow the user to walk around while in use.

For equipment clearly designed or intended for use by young children, the limits of EN 71-1 apply.

Z1.2 Equipment requirements

No safety provision is required for equipment that complies with the following:

- equipment provided as a package (personal music player with its listening device), where the acoustic output $L_{Aeq,T}$ is ≤ 85 dB(A) measured while playing the fixed “programme simulation noise” as described in EN 50332-1; and
- personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed “programme simulation noise” as described in EN 50332-1.

NOTE 1 Wherever the term acoustic output is used in this subclause, the 30 s A-weighted equivalent sound pressure level $L_{Aeq,T}$ is meant. See also Z1.5 and Annex ZE.

All other equipment shall:

- a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and
- b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and
- c) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time; and

NOTE 2 Examples of means include visual or audible signals. Action from the user is always required.

NOTE 3 The 20 h listening time is the accumulative listening time, independent how often and how long the personal music player has been switched off.

- d) have a warning as specified in Z1.3; and

e) not exceed the following:

- 1) equipment provided as a package (player with its listening device), the acoustic output shall be ≤ 100 dB(A) measured while playing the fixed “programme simulation noise” described in EN 50332-1; and
- 2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be ≤ 150 mV measured as described in EN 50332-2, while playing the fixed “programme simulation noise” described in EN 50332-1.

For music where the average sound pressure (long term $L_{Aeq,T}$) measured over the duration of the song is lower than the average produced by the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the basic limit of 85 dB(A). In this case, T becomes the duration of the song.

NOTE 4 Classical music typically has an average sound pressure (long term $L_{Aeq,T}$) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dB(A).

NOTE 5 For example, if the player is set with the programme simulation noise to 85 dB(A), but the average music level of the song is only 65 dB(A), there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB(A).

Z1.3 Warning

The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following:

- the symbol of Figure Z1 with a minimum height of 5 mm; and
- the following wording, or similar:

To prevent possible hearing damage, do not listen at high volume levels for long periods.



Figure Z1 – Warning label (IEC 60417-6044)

Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.

Z1.4 Requirements for listening devices (headphones, earphones, etc.)

Z1.4.1 Corded passive listening devices with analogue input

With 94 dB(A) sound pressure output $L_{Aeq,T}$, the input voltage of the fixed “programme simulation noise” described in EN 50332-2 shall be ≥ 75 mV.

This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.).

NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.

Z1.4.2 Corded listening devices with digital input

With any playing device playing the fixed “programme simulation noise” described in EN 50332-1, the acoustic output $L_{Aeq,T}$ of the listening device shall be ≤ 100 dB(A).

This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like equalization, etc.).

Z1.4.3 Cordless listening devices

In wireless mode:

- with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and
- respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and
- with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above-mentioned programme simulation noise.

the acoustic output $L_{Aeq,T}$ of the listening device shall be ≤ 100 dB(A).

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Z1.5 Measurement methods

Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall be 30 s.

NOTE Test method for cordless equipment provided without listening device should be defined.

Annexes

Annex B Replace the text of Note 1 by the following:

In the CENELEC countries listed in IEC 62151, special national conditions apply.

Annex N After the note in N.1, add the following:

For ROUTINE TEST, reference is made to EN 50514:2008.

Add the following annexes.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
-	-	Safety of toys Part 1: Mechanical and physical properties	EN 71-1	-
-	-	Sound system equipment: Headphones and earphones associated with personal music players - Maximum sound pressure level measurement methodology Part 1: General method for "one package equipment"	EN 50332-1	-
-	-	Sound system equipment: Headphones and earphones associated with personal music players - Maximum sound pressure level measurement methodology - Part 2: Matching of sets with headphones if either or both are offered separately, or are offered as one package equipment but with standardised connectors between the two allowing to combine components of different manufacturers or different design	EN 50332-2	-
IEC 60027	series	Letter symbols to be used in electrical technology	EN 60027	series
IEC 60038 (mod)	2009	IEC standard voltages	EN 60038	2011
IEC 60068-2-6	2007	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	2008
IEC 60068-2-31	2008	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	EN 60068-2-31	2008
IEC 60068-2-75	-	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-78	-	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	-
IEC 60085	-	Electrical insulation - Thermal evaluation and designation	EN 60085	-
IEC 60086-4	-	Primary batteries - Part 4: Safety of lithium batteries	EN 60086-4	-
IEC 60107-1	1997	Methods of measurement on receivers for television broadcast transmissions - Part 1: General considerations - Measurements at radio and video frequencies	EN 60107-1	1997
IEC 60112 + corr. June + corr. October + A1	2003 2003 2003 2009	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN 60112 - - + A1	2003 - - 2009
IEC 60127	series	Miniature fuses	EN 60127	series
IEC 60127-6	-	Miniature fuses - Part 6: Fuse-holders for miniature cartridge fuse-links	EN 60127-6	-
IEC 60167	1964	Methods of test for the determination of the insulation resistance of solid insulating materials	HD 568 S1 1)	1990
IEC 60216	series	Electrical insulating materials. Thermal endurance properties	EN 60216	series
IEC 60227 (mod)	series	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	HD 21 2)	series
IEC 60227-2 + corr. April	1997 1998	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 2: Test methods	-	-
IEC 60245	series	Rubber insulated cables - Rated voltages up to and including 450/750 V	-	-
IEC 60249-2	series	Base materials for printed circuits - Part 2: Specifications	-	-
IEC 60268-1	1985	Sound system equipment - Part 1: General	HD 483.1 S2 3)	1989

1) HD 568 S1:1990 is partially superseded by EN 62631-1:2011, which is based on IEC 62631-1:2011.

2) The HD 21 series is related to, but not directly equivalent with the IEC 60227 series. Also EN 50363, EN 50395 and EN 50396 are to be taken into account.

3) HD 483.1 S2:1989 includes A1:1998 to IEC 60268-1:1985.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60317-43	-	Specifications for particular types of winding wires - Part 43: Aromatic polyimide tape wrapped round copper wire, class 240	EN 60317-43	-
IEC 60320	series	Appliance couplers for household and similar general purposes	EN 60320	series
IEC 60320-1	-	Appliance couplers for household and similar general purposes - Part 1: General requirements	EN 60320-1	-
IEC 60335-1	-	Household and similar electrical appliances - Safety - Part 1: General requirements	EN 60335-1	-
IEC 60384-1 + corr. November	2008 2008	Fixed capacitors for use in electronic equipment - Part 1: Generic specification	EN 60384-1 -	2009 -
IEC 60384-14	2005	Fixed capacitors for use in electronic equipment - Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	EN 60384-14 4)	2005
IEC 60410	1973	Sampling plans and procedures for inspection - by attributes	SIST EN 60065:2015	-
IEC 60417-DB	-	Graphical symbols for use on equipment, available from: < http://www.graphical-symbols.info/equipment >	-	-
IEC 60454	series	Pressure-sensitive adhesive tapes for electrical purposes	EN 60454	series
IEC 60529 -	1989 -	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993
IEC 60664-1	2007	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	EN 60664-1	2007
IEC 60664-3	-	Insulation coordination for equipment within low-voltage systems - Part 3: Use of coating, potting or moulding for protection against pollution	EN 60664-3	-
IEC 60691	2002	Thermal-links - Requirements and application guide	EN 60691	2003
IEC 60695-11-5	2004	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2005

4) EN 60384-14:2005 is superseded by EN 60384-14:2013, which is based on IEC 60384-14:2013.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60695-11-10	2013	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10	2013
IEC 60730-1 (mod)	2010	Automatic electrical controls for household and similar use - Part 1: General requirements	EN 60730-1	2011
IEC 60747-5-5 + A1	2007 2013	Semiconductor devices - Discrete devices - Part 5-5: Optoelectronic devices - Photocouplers	EN 60747-5-5 -	2011 -
IEC 60825-1 + corr. August	2007 2008	Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1 ⁵⁾	2007
IEC 60851-3	2009	Winding wires - Test methods - Part 3: Mechanical properties	EN 60851-3	2009
IEC 60851-5	2008	Winding wires - Test methods - Part 5: Electrical properties	EN 60851-5	2008
IEC 60851-6	2012	Winding wires - Test methods - Part 6: Thermal properties	EN 60851-6	2012
IEC 60906	series	IEC system of plugs and socket outlets for household and similar purposes	-	-
IEC 60950-1 (mod) + corr. August - + corr. August - + A1 (mod) + corr. August - + A2 (mod)	2005 2006 - 2013 - 2009 2012 - 2013	Information technology equipment - Safety - Part 1: General requirements	EN 60950-1 - + AC:2011 - + A11 + A1 - + A12 + A2	2006 - 2011 - 2009 2010 - 2011 2013
IEC 60990	-	Methods of measurement of touch current and protective conductor current	EN 60990	-
IEC 60998-2-2	-	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units	EN 60998-2-2	-
IEC 60999-1	-	Connecting devices - Electrical copper conductors - Safety requirements for screw- type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm ² up to 35 mm ² (included)	EN 60999-1	-

5) EN 60825-1:2007 is superseded by EN 60825-1:2014, which is based on IEC 60825-1:2014.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60999-2	-	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 2: Particular requirements for clamping units for conductors above 35 mm ² up to 300 mm ² (included)	EN 60999-2	-
IEC 61032 + corr. January	1997 2003	Protection of persons and equipment by enclosures - Probes for verification	EN 61032 -	1998 -
IEC 61051-2 + A1	1991 2009	Varistors for use in electronic equipment - Part 2: Sectional specification for surge suppression varistors	-	-
IEC 61058-1 (mod) + corr. January	2000 2009	Switches for appliances - Part 1: General requirements	EN 61058-1 ⁶⁾ -	2002 -
IEC/TR 61149	-	Guide for safe handling and operation of mobile radio equipment	-	-
IEC 61260	-	Electroacoustics - Octave-band and fractional-octave-band filters	EN 61260	-
IEC 61293	-	Marking of electrical equipment with ratings related to electrical supply - Safety requirements	EN 61293	-
IEC 61558-1 - + corr. March + corr. March + corr. April + A1	2005 - 2008 2010 2011 2009	Safety of power transformers, power supplies, reactors and similar products - Part 1: General requirements and tests	EN 61558-1 + corr. August - - - + A1	2005 2006 - - - 2009
IEC 61558-2-16	-	Safety of transformers, reactors, power supply units and similar products for voltages up to 1 100 V - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units	EN 61558-2-16	-
IEC 61965	-	Mechanical safety of cathode ray tubes	EN 61965	-
IEC 62133	-	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications	EN 62133	-
IEC 62151 + corr. March + corr. June	2000 2001 2001	Safety of equipment electrically connected to a telecommunication network	-	-

6) EN 61058-1:2002 includes A1:2001 to IEC 61058-1:2000 (mod).