



**SLOVENSKI STANDARD**  
**SIST EN 60950-1:2006/A2:2014**  
**01-februar-2014**

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**Oprema za informacijsko tehnologijo - Varnost - 1. del: Splošne zahteve -  
Dopolnilo A2 (IEC 60950-1:2005/A2:2013, spremenjen)**

Information technology equipment - Safety - Part 1: General requirements

Einrichtungen der Informationstechnik - Sicherheit - Teil 1: Allgemeine Anforderungen

Matériel de traitement de l'information - Sécurité - Partie 1: Exigences générales  
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**Ta slovenski standard je istoveten z: EN 60950-1:2006/A2:2013**

<https://standards.iteh.ai/catalog/standards/sist/c1f16e9b-fbeb-4b94-92a6-3050c62c3195/sist-en-60950-1-2006-a2-2014>

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**ICS:**

35.020	Informacijska tehnika in tehnologija na splošno	Information technology (IT) in general
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**SIST EN 60950-1:2006/A2:2014**                      **en**

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[SIST EN 60950-1:2006/A2:2014](https://standards.iteh.ai/catalog/standards/sist/c1f16e9b-fbeb-4b94-92a6-3050c62c3195/sist-en-60950-1-2006-a2-2014)

<https://standards.iteh.ai/catalog/standards/sist/c1f16e9b-fbeb-4b94-92a6-3050c62c3195/sist-en-60950-1-2006-a2-2014>

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60950-1/A2**

August 2013

ICS 35.020; 35.260

English version

**Information technology equipment -  
Safety -  
Part 1: General requirements**  
(IEC 60950-1:2005/A2:2013, modified)

Matériel de traitement de l'information -  
Sécurité -  
Partie 1: Exigences générales  
(CEI 60950-1:2005/A2:2013, modifié)

Einrichtungen der Informationstechnik -  
Sicherheit -  
Teil 1: Allgemeine Anforderungen  
(IEC 60950-1:2005/A2:2013, modifiziert)

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This amendment A2 modifies the European Standard EN 60950-1:2006; it was approved by CENELEC on 2013-07-02. 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.

<https://standards.iteh.ai/catalog/standards/sist/c1f16e9b-fbeb-4b94-92a6-97462312e312/iec-60950-1-2005/a2-2013>  
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 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**CENELEC**

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

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## Foreword

The text of document 108/507/FDIS, future IEC 60950-1:2005/A2, prepared by IEC/TC 108 "Safety of electronic equipment within the field of audio/video, information technology and communication technology" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60950-1:2006/A2:2013.

A draft amendment, which covers common modifications to IEC 60950-1:2005/A2:2013, was prepared by CLC/TC 108X, "Safety of electronic equipment within the fields of Audio/Video, Information Technology and Communication Technology" and approved by CENELEC.

The following dates are fixed:

- latest date by which this document has to be implemented (dop) 2014-07-02  
at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting (dow) 2016-07-02  
with this document have to be withdrawn

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 60950-1 are prefixed "Z".

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.

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 60950-1:2005/A2:2013 was approved by CENELEC as a European Standard with agreed common modifications.

### COMMON MODIFICATIONS

#### Contents

**Add** the following:

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

#### Whole document

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

2.7.1	Note *	2.10.3.1	Note 2	6.2.2	Note
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\* Note of secretary: Text of Common Modification remains unchanged

For special national conditions, see Annex ZB.

### 3 Wiring, connections and supply

#### 3.2.5.1 AC power supply cords

**Add** the following Note:

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

**Replace** the entire Annex ZA by the following:

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
-	-	Sound system equipment: Headphones and earphones associated with portable audio equipment — Maximum sound pressure level measurement methodology and limit considerations — Part 1: General method for "one package equipment"	EN 50332-1	-
-	-	Sound system equipment: Headphones and earphones associated with portable audio equipment — Maximum sound pressure level measurement methodology and limit considerations — Part 2: Matching of sets with headphones if either or both are offered separately	EN 50332-2	-
-	-	Insulating, sheathing and covering materials for low-voltage energy cables	EN 50363	all parts
-	-	Electrical test methods for low voltage energy cables	EN 50395	-
-	-	Non electrical test methods for low voltage energy cables	EN 50396	-
IEC 60065 (mod) A1 (mod)	2001 2005	Audio, video and similar electronic apparatus – Safety requirements	EN 60065 A1 A11	2002 2006 2008
A2 (mod)	2010		A2 A12	2010 2011
IEC 60068-2-78	-	Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state	EN 60068-2-78	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60073	-	Basic and safety principles for man-machine interface, marking and identification – Coding principles for indication devices and actuators	EN 60073	-
IEC/TR 60083	-	Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC	-	-
IEC 60085	2004	Electrical insulation – Thermal evaluation and designation	EN 60085	2004 <sup>1)</sup>
IEC 60112	-	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN 60112	-
IEC 60127-1	-	Miniature fuses – Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links	EN 60127-1	-
IEC 60227-1	2007	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 1: General requirements	- <sup>2)</sup>	-
IEC 60227-2 A1	1997 2003	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 2: Test methods	- <sup>2)</sup>	-
IEC 60245	all parts	Rubber insulated cables – Rated voltages up to and including 450/750V	- <sup>3)</sup>	-
IEC 60309	all parts	Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements	EN 60309	all parts
IEC 60317	all parts	Specifications for particular types of winding wires	EN 60317	all parts
IEC 60317-43	-	Specifications for particular types of winding wires – Part 43: Aromatic polyimide tape wrapped round copper wire, class 240	EN 60317-43	-

1) IEC 60085:2004 is superseded by IEC 60085:2007 which is harmonised as EN 60085:2008.

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) The HD 22 series is related to, but not directly equivalent with the IEC 60245 series. Also EN 50363, EN 50395 and EN 50396 are to be taken into account.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60320	all parts	Appliance couplers for household and similar general purposes	EN 60320	all parts
IEC 60364-1 (mod)	2001	Electrical installations of buildings – Part 1: Fundamental principles, assessment of general characteristics, definitions	HD 384.1 S2	2001
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	2005
IEC 60417	Data-base	Graphical symbols for use on equipment	-	-
IEC 60664-1 A1 A2	1992 2000 2002	Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests	EN 60664-1	2003 <sup>4)</sup>
IEC 60695-2-11	-	Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products	EN 60695-2-11	-
IEC 60695-2-20	-	Fire hazard testing – Part 2-20: Glowing/hot-wire based test methods – Hot-wire coil ignitability – Apparatus, test method and guidance	-	-
IEC 60695-10-2	-	Fire hazard testing – Part 10-2: Abnormal heat – Ball pressure test	EN 60695-10-2	-
IEC 60695-10-3	-	Fire hazard testing – Part 10-3: Abnormal heat – Mould stress relief distortion test	EN 60695-10-3	-
IEC 60695-11-3	-	Fire hazard testing – Part 11-3: Test flames –500 W flames – Apparatus and confirmational test methods	EN 60695-11-3	-
IEC 60695-11-4	-	Fire hazard testing – Part 11-4: Test flames –50 W flame – Apparatus and confirmational test method	EN 60695-11-4	-

<sup>4)</sup> IEC 60664-1:1992 is superseded by IEC 60664-1:2007 which is harmonised as EN 60664-1:2007.



<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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	2004
IEC 60695-11-10	-	Fire hazard testing – Part 11-10: Test flames – 50 W horizontal and vertical flame test methods	EN 60695-11-10	-
IEC 60695-11-20	-	Fire hazard testing – Part 11-20: Test flames – 500 W flame test methods	EN 60695-11-20	-
IEC 60730-1 (mod) A1	1999 2003	Automatic electrical controls for household and similar use – Part 1: General requirements	EN 60730-1 A1	2000 <sup>5)</sup> 2004
IEC 60747-5-5	2007	Semiconductor devices – Discrete devices – Part 5-5: Optoelectronic devices – Photocouplers	EN 60747-5-5	2011
IEC 60825-1	-	Safety of laser products – Part 1: Equipment classification and requirements	EN 60825-1	-
IEC 60825-2	-	Safety of laser products – Part 2: Safety of optical fibre communication systems (OFCS)	EN 60825-2	-
IEC/TR 60825-9	-	Safety of laser products – Part 9: Compilation of maximum permissible exposure to incoherent optical radiation	-	-
IEC 60825-12	-	Safety of laser products – Part 12: Safety of free space optical communication systems used for transmission of information	EN 60825-12	-
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 A1 A2	1996 1997 2003	Winding wires – Test methods – Part 6: Thermal properties	EN 60851-6 A1 A2	1996 1997 2004

<sup>5)</sup> IEC 60730-1:1999 is superseded by IEC 60730-1:2000 which is harmonised as EN 60730-1:2011, modified.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60885-1	1987	Electrical test methods for electric cables – Part 1: Electrical tests for cables, cords and wires for voltages up to and including 450/750 V	-	-
IEC 60906-1	-	IEC system of plugs and socket-outlets for household and similar purposes – Part 1: Plugs and socket-outlets 16 A 250 V a.c.	-	-
IEC 60906-2	-	IEC system of plugs and socket-outlets for household and similar purposes – Part 2: Plugs and socket-outlets 15 A 125 V a.c. and 20 A 125 V a.c.	-	-
IEC 60947-1	-	Low-voltage switchgear and controlgear – Part 1: General rules	EN 60947-1	-
IEC 60990	1999	Methods of measurement of touch current and protective conductor current	EN 60990	1999
IEC 60998-1	-	Connecting devices for low-voltage circuits for household and similar purposes – Part 1: General requirements	EN 60998-1	-
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 <sup>2</sup> up to 35 mm <sup>2</sup> (included)	EN 60999-1	-
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 <sup>2</sup> up to 300 mm <sup>2</sup> (included)	EN 60999-2	-
IEC 61051-2	1991	Varistors for use in electronic equipment – Part 2: Sectional specification for surge suppression varistors	-	-
IEC 61058-1 (mod)	2000	Switches for appliances –	EN 61058-1	2002
A1	2001	Part 1: General requirements		
A2	2007		A2	2008

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62133	2012	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	2013
IEC 62368-1	-	Audio/video, information and communication technology equipment – Part 1: Safety requirements	FprEN 62368	-
IEC 62471 (mod)	2006	Photobiological safety of lamps and lamp systems	EN 62471	2008
ISO 178	-	Plastics - Determination of flexural properties	EN ISO 178	-
ISO 179	all parts	Plastics - Determination of Charpy impact properties	EN ISO 179	all parts
ISO 180	-	Plastics - Determination of Izod impact strength	EN ISO 180	-
ISO 261	-	ISO general purpose metric screw threads - General plan	-	-
ISO 262	-	ISO general purpose metric screw threads - Selected sizes for screws, bolts and nuts	-	-
ISO 527	all parts	Plastics – Determination of tensile properties	EN ISO 527	all parts
ISO 3864	all parts	Graphical symbols – Safety colours and safety signs	-	-
ISO 4892-1	-	Plastics – Methods of exposure to laboratory light sources – Part 1: General guidance	EN ISO 4892-1	-
ISO 4892-2	-	Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps	EN ISO 4892-2	-
ISO 4892-4	-	Plastics – Methods of exposure to laboratory light sources – Part 4: Open-flame carbon-arc lamps	-	-
ISO 7000	-	Graphical symbols for use on equipment – Registered symbols	-	-
ISO 8256	-	Plastics – Determination of tensile-impact strength	EN ISO 8256	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 9772	-	Cellular plastics – Determination of horizontal burning characteristics of small specimens subjected to a small flame	-	-
ISO 9773	-	Plastics – Determination of burning behaviour of thin flexible vertical specimens in contact with a small-flame ignition source	EN ISO 9773	-
ITU-T Recommendation K44	-	Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents – Basic Recommendation	-	-

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**Annex ZB**  
(normative)

**Special national conditions**

**Change** the existing special national conditions as follows:

Clause	Special national condition
1.7.2.1	<p>In <b>Denmark, Finland, Norway</b> and <b>Sweden</b>, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.</p> <p>The marking text in the applicable countries shall be as follows:</p> <p>In <b>Denmark</b>: "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord."</p> <p>In <b>Finland</b>: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"</p> <p>In <b>Norway</b>: "Apparatet må tilkoples jordet stikkontakt"</p> <p>In <b>Sweden</b>: "Apparaten skall anslutas till jordat uttag"</p>
1.7.5	<p>In <b>Denmark</b>, socket-outlets for providing power to other equipment shall be in accordance with the DS 60884-2-D1:2011.</p> <p>For class I equipment the following Standard Sheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exception for STATIONARY EQUIPMENT where the socket-outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a.</p> <p>Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with by DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-3b.</p> <p><i>Justification</i> the Heavy Current Regulations, 6c</p>