

MALAYSIAN STANDARD

MS IEC 60335-1:2013

Household and similar electrical appliances -Safety - Part 1: General requirements (Second Revision) (IEC 60335-1:2006, IDT)

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Descriptors: safety, household, electrical appliances, general requirements

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Committee representation

The Industry Standards Committee on Electrical and Electronics Equipments and Accessories (ISC S) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Atomic Energy Licensing Board Department of Standards Malaysia Federation of Malaysian Manufacturers Jabatan Kerja Raya Malaysia Malaysian Association of Standards Users Malaysian Cable Manufacturers Association Malaysian Electrical Appliances and Distributors Association Malaysian Green Technology Corporation Ministry of Domestic Trade, Co-operatives and Consumerism Multimedia University SIRIM Berhad (Secretariat) SIRIM QAS International Sdn Bhd Suruhanjaya Komunikasi dan Multimedia Malaysia Suruhanjaya Tenaga Tenaga Nasional Berhad (Distribution Division) The Electrical and Electronics Association of Malaysia Universiti Teknologi Malaysia Universiti Tenaga Nasional

The Technical Committee on Safety of Household and Similar Electrical Appliances which supervised the adoption of the IEC Standard as Malaysian Standard consists of representatives from the following organisations:

J & E Hall Refrigeration Sdn Bhd
Jabatan Kerja Raya Malaysia
Khind-Mistral Industries Sdn Bhd
Malaysian Electrical Appliances and Distributors Association
Ministry of Domestic Trade, Co-operatives and Consumerism
Panasonic Manufacturing Malaysia Berhad
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
Sharp Electronics (M) Sdn Bhd
Suruhanjaya Tenaga
The Electrical and Electronics Association of Malaysia
Thermo Hygro Consultants Sdn Bhd
Universiti Malaya
Universiti Teknologi MARA

The Working Group on Electrical Household Combined, General and Other Appliances which recommended the adoption of the IEC Standard as Malaysian Standard consists of representatives from the following organisations:

Hupson Industries Sdn Bhd
Ideal Tech Apac Sdn Bhd
Jabatan Kerja Raya Malaysia
Kee Huat Radio Company Sdn Bhd
Malaysian Electrical Appliances and Distributors Association
Panasonic Manufacturing Malaysia Berhad
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
Suruhanjaya Tenaga
TNB Research Sdn Bhd
Tenaga Masyhur (M) Sdn Bhd
Universiti Teknologi MARA

National foreword

The adoption of the IEC Standard as a Malaysian Standard was recommended by the Working Group on Electrical Household Combined, General and Other Appliances under the authority of the Industry Standards Committee on Electrical and Electronics Equipments and Accessories.

This Malaysian Standard is identical with IEC 60335-1:2006, *Household and similar electrical appliances - Safety - Part 1: General requirements*, published by the International Electrotechnical Commission (IEC). However, for the purposes of this Malaysian Standard, the following apply:

- a) in the source text, "this International Standard" should read "this Malaysian Standard";
- b) the comma which is used as a decimal sign (if any), to read as a point;
- c) the basis IEC 60335-1 is printed in English and French languages. However, only the English version applied for this Malaysian Standard; and
- reference to International Standards should be replaced by corresponding Malaysian Standards as follows:

Referenced International Standards

IEC 60061-1, Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 1: Lamp caps

IEC 60068-2-2, Environmental testing - Part 2 Tests. Tests B: Dry heat

IEC 60238, Edison screw lampholders

IEC 60320-1, Appliance couplers for household and similar general purposes -Part 1: General requirements

IEC 60320-2-2, Appliance couplers for household and similar general purposes - Part 2-2: Interconnection couplers for household and similar equipment

IEC 60320-2-3, Appliance couplers for household and similar general purposes -Part 2-3: Appliance coupler with a degree of protection higher than IPX0

Corresponding Malaysian Standards

MS IEC 60061-1, Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 1: Lamp caps

MS IEC 60068-2-2, Environmental testing - Part 2 Tests. Tests B: Dry heat

MS IEC 60238, Edison screw lampholders

MS IEC 60320-1, Appliance couplers for household and similar general purposes -Part 1: General requirements

MS IEC 60320-2-2, Appliance couplers for household and similar general purposes -Part 2-2: Interconnection couplers for household and similar equipment

MS IEC 60320-2-3, Appliance couplers for household and similar general purposes - Part 2-3: Appliance coupler with a degree of protection higher than IPX0

National foreword (continued)

Referenced International Standards

IEC 60529, Degrees of protection provide by enclosures (IP Code)

IEC 60598-1:2003, Luminaires - Part 1: General requirements and tests

IEC 60695-2-11, Fire Hazard testing - Part 2-11: Glowing/hot wire based test methods - Glow-wire flammability test method for end-products

IEC 60695-2-12, Fire Hazard testing - Part 2-12: Glowing/hot wire based test methods - Glow-wire flammability test method for materials

IEC 60695-2-13, Fire Hazard testing - Part 2-13: Glowing/hot wire based test methods - Glow-wire ignitability test method for materials

IEC 60695-10-2, Fire hazard testing - Part 10: Guidance and test methods for the minimization of the effects of abnormal heat on electrotechnical products involved in fires - Section 2: Method for testing products made from non-metallic materials for resistance to heat using the ball pressure test

IEC 60695-11-5:2004, Fire hazard testing -Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance

IEC 60730-1:1999, Automatic electrical controls for household and similar use - Part 1: General requirements

IEC 60730-2-8:2000, Automatic electrical controls for household and similar use - Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements

IEC 61000-4-2, Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 2: Electrostatic discharge immunity test

Corresponding Malaysian Standards

MS IEC 60529, Degrees of protection provided by enclosures (IP Code)

MS IEC 60598-1:2003, Luminaires - Part 1: General requirements and tests

MS IEC 60695-2-11, Fire Hazard testing -Part 2-11: Glowing/hot wire based test methods - Glow-wire flammability test method for end-products

MS IEC 60695-2-12, Fire Hazard testing -Part 2-12: Glowing/hot wire based test methods - Glow-wire flammability test method for materials

MS IEC 60695-2-13, Fire Hazard testing -Part 2-13: Glowing/hot wire based test methods - Glow-wire ignitability test method for materials

MS IEC 60695-10-2, Fire hazard testing -Part 10: Guidance and test methods for the minimization of the effects of abnormal heat on electrotechnical products involved in fires - Section 2: Method for testing products made from non-metallic materials for resistance to heat using the ball pressure test

MS IEC 60695-11-5:2004, Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance

MS IEC 60730-1:1999, Automatic electrical controls for household and similar use - Part 1: General requirements

MS IEC 60730-2-8:2000, Automatic electrical controls for household and similar use - Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements

MS IEC 61000-4-2, Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 2: Electrostatic discharge immunity test

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National foreword (continued)

Referenced International Standards

- IEC 61000-4-3, Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques Radiated, radiofrequency, electromagnetic field immunity test
- IEC 61000-4-4, Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 4: Electrical fast transient/burst immunity test
- IEC 61000-4-5, Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 5: Surge immunity test
- IEC 61000-4-6, Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques Immunity to conducted disturbances, induced by radiofrequency fields
- IEC 61000-4-11:2004, Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques Voltage dips, short interruptions and voltage variations immunity tests
- IEC 61000-4-13, Electromagnetic compatibility (EMC) Part 4-13: Testing and measurement techniques Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests
- IEC 61032:1997, Protection of persons and equipment by enclosures Probes for verification
- IEC 61058-1:2000, Switches for appliances Part 1: General requirements
- IEC 61180-1, High-voltage test techniques for low-voltage equipment. Part 1: Definitions, test and procedure requirements

Corresponding Malaysian Standards

- MS IEC 61000-4-3, Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques Radiated, radiofrequency, electromagnetic field immunity test
- MS IEC 61000-4-4, Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 4: Electrical fast transient/burst immunity test
- MS IEC 61000-4-5, Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 5: Surge immunity test
- MS IEC 61000-4-6, Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques Immunity to conducted disturbances, induced by radiofrequency fields
- MS IEC 61000-4-11:2004, Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques Voltage dips, short interruptions and voltage variations immunity tests
- MS IEC 61000-4-13, Electromagnetic compatibility (EMC) Part 4-13: Testing and measurement techniques Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests
- MS IEC 61032:1997, Protection of persons and equipment by enclosures Probes for verification
- MS IEC 61058-1:2000, Switches for appliances Part 1: General requirements
- MS IEC 61180-1, High-voltage test techniques for low-voltage equipment. Part 1: Definitions, test and procedure requirements

National foreword (concluded)

Referenced International Standards

IEC 61180-2, High-voltage techniques for low-voltage equipment - Part 2: Test equipment

IEC 61558-1:1997, Safety of power transformers, power supply units and similar - Part 1: General requirements and tests

IEC 61558-2-6:1997, Safety of power transformers, power supply units and similar - Part 2: Particular requirements for safety isolating transformers for general use

IEC 61770, Electric appliances connected to the water mains - Avoidance of backsiphonage and failure of hose-sets

Corresponding Malaysian Standards

MS IEC 61180-2, High-voltage techniques for low-voltage equipment - Part 2: Test equipment

MS IEC 61558-1:1997, Safety of power transformers, power supply units and similar - Part 1: General requirements and tests

MS IEC 61558-2-6:1997, Safety of power transformers, power supply units and similar - Part 2: Particular requirements for safety isolating transformers for general use

MS IEC 61770, Electric appliances connected to the water mains - Avoidance of backsiphonage and failure of hose-sets

This Malaysian Standard cancels and replaces MS IEC 60335-1:2005, Household and similar electrical appliances - Safety - Part 1: General requirements.

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

NOTE. IDT on the front cover indicates an identical standard i.e. a standard where the technical content, structure, and wording (or is an identical translation) of a Malaysian Standard is exactly the same as in an International Standard or is identical in technical content and structure although it may contain the minimal editorial changes specified in clause 4.2 of ISO/IEC Guide 21-1.