



MALAYSIAN STANDARD

MS IEC 60335-1:2013

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

ICS: 13.120; 97.030

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Committee representation.....	iv
National foreword.....	v
Foreword.....	ix
Introduction.....	xiii
1 Scope.....	19
2 Normative references	19
3 Definitions	27
4 General requirement.....	43
5 General conditions for the tests	43
6 Classification.....	49
7 Marking and instructions.....	51
8 Protection against access to live parts.....	63
9 Starting of motor-operated appliances	67
10 Power input and current	67
11 Heating	73
12 Void.....	81
13 Leakage current and electric strength at operating temperature.....	81
14 Transient overvoltages	87
15 Moisture resistance	89
16 Leakage current and electric strength.....	93
17 Overload protection of transformers and associated circuits	97
18 Endurance.....	97
19 Abnormal operation	99
20 Stability and mechanical hazards	117
21 Mechanical strength	119
22 Construction.....	121
23 Internal wiring.....	143
24 Components	147
25 Supply connection and external flexible cords	155
26 Terminals for external conductors.....	171
27 Provision for earthing	175
28 Screws and connections.....	179
29 Clearances, creepage distances and solid insulation	185
30 Resistance to heat and fire.....	199
31 Resistance to rusting.....	209
32 Radiation, toxicity and similar hazards.....	209

Annex A (informative) Routine tests	231
Annex B (normative) Appliances powered by rechargeable batteries	235
Annex C (normative) Ageing test on motors	241
Annex D (normative) Thermal motor protectors	245
Annex E (normative) Needle flame test	247
Annex F (normative) Capacitors	249
Annex G (normative) Safety isolating transformers	253
Annex H (normative) Switches	255
Annex I (normative) Motors having basic insulation that is inadequate for the rated voltage of the appliance	259
Annex J (normative) Coated printed circuit boards	263
Annex K (normative) Overvoltage categories	265
Annex L (informative) Guidance for the measurement of clearances and creepage distances	267
Annex M (normative) Pollution degree	271
Annex N (normative) Proof tracking test	273
Annex O (informative) Selection and sequence of the tests of clause 30	275
Annex P (informative) Guidance for the application of this standard to appliances used in warm damp equable climates	279
Annex Q (informative) Sequence of tests for the evaluation of electronic circuits	283
Annex R (normative) Software evaluation	287
Bibliography	289
Index of defined words	293
Figure 1 – Circuit diagram for leakage current measurement at operating temperature for single-phase connection of class II appliances	211
Figure 2 – Circuit diagram for leakage current measurement at operating temperature for single-phase connection of appliances, other than those of class II	213
Figure 3 – Circuit diagram for leakage current measurement at operating temperature for three-phase connection of class II appliances	215
Figure 4 – Circuit diagram for leakage current measurement at operating temperature for three-phase connection of appliances other than those of class II	217
Figure 5 – Void	217
Figure 6 – Example of an electronic circuit with low-power points	219
Figure 7 – Test finger nail	221
Figure 8 – Flexing test apparatus	223
Figure 9 – Constructions of cord anchorages	225
Figure 10 – An example of parts of an earthing terminal	227
Figure 11 – Examples of clearances	229
Figure I.1 – Simulation of faults	261
Figure L.1 – Sequence for the determination of clearances	267
Figure L.2 – Sequence for the determination of creepage distances	269
Figure O.1 – Tests for resistance to heat	275
Figure O.2 – Tests for resistance to fire	277

Table 1 – Power input deviation	69
Table 2 – Current deviation	71
Table 3 – Maximum normal temperature rises	77
Table 4 – Voltage for electric strength test	85
Table 5 – Characteristics of high-voltage sources	87
Table 6 – Impulse test voltage	87
Table 7 – Test voltages	95
Table 8 – Maximum winding temperature	103
Table 9 – Maximum abnormal temperature rise	115
Table 10 – Dimensions of cables and conduits	157
Table 11 – Minimum cross-sectional area of conductors	159
Table 12 – Pull force and torque	165
Table 13 – Nominal cross-sectional area of conductors	173
Table 14 – Torque for testing screws and nuts	183
Table 15 – Rated impulse voltage	187
Table 16 – Minimum clearances	187
Table 17 – Minimum creepage distances for basic insulation	195
Table 18 – Minimum creepage distances for functional insulation	197
Table A.1 – Test voltages	233
Table C.1 – Test conditions	241

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
- d) reference to International Standards should be replaced by corresponding Malaysian Standards as follows:

<u>Referenced International Standards</u>	<u>Corresponding Malaysian Standards</u>
IEC 60061-1, <i>Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 1: Lamp caps</i>	MS IEC 60061-1, <i>Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 1: Lamp caps</i>
IEC 60068-2-2, <i>Environmental testing - Part 2 Tests. Tests B: Dry heat</i>	MS IEC 60068-2-2, <i>Environmental testing - Part 2 Tests. Tests B: Dry heat</i>
IEC 60238, <i>Edison screw lampholders</i>	MS IEC 60238, <i>Edison screw lampholders</i>
IEC 60320-1, <i>Appliance couplers for household and similar general purposes - Part 1: General requirements</i>	MS IEC 60320-1, <i>Appliance couplers for household and similar general purposes - Part 1: General requirements</i>
IEC 60320-2-2, <i>Appliance couplers for household and similar general purposes - Part 2-2: Interconnection couplers for household and similar equipment</i>	MS IEC 60320-2-2, <i>Appliance couplers for household and similar general purposes - Part 2-2: Interconnection couplers for household and similar equipment</i>
IEC 60320-2-3, <i>Appliance couplers for household and similar general purposes - Part 2-3: Appliance coupler with a degree of protection higher than IPX0</i>	MS IEC 60320-2-3, <i>Appliance couplers for household and similar general purposes - Part 2-3: Appliance coupler with a degree of protection higher than IPX0</i>

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*

National foreword (continued)

Referenced International Standards

IEC 61000-4-3, *Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, 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 radio-frequency 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, radio-frequency, 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 radio-frequency 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*

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.

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*