



# MALAYSIAN STANDARD

MS IEC 62305-1:2007

## PROTECTION AGAINST LIGHTNING-PART 1: GENERAL PRINCIPLES (FIRST REVISION) (IEC 62305-1:2006, IDT)

ICS: 91.120.40, 29.020

Descriptors: lightning protection, installations and contents

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Preview Only

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The Electrotechnical Industry Standards Committee (ISC E) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

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Department of Standards Malaysia  
Federation of Malaysian Manufacturers  
Independent Power Producer Association  
Jabatan Kerja Raya Malaysia  
Malaysian Cable Manufacturers Association  
Malaysian Electrical Appliances and Distributors Association  
Ministry of Domestic Trade and Consumer Affairs  
Ministry of International Trade and Industry  
Persatuan Pengguna-Pengguna Standard Malaysia  
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Suruhanjaya Tenaga  
Tenaga Nasional Berhad  
The Electrical and Electronics Association of Malaysia  
The Institution of Engineers, Malaysia  
Universiti Teknologi Malaysia

The Working Group on Lightning Protection which recommends adoption of the IEC Standard consists of representatives from the following organisations:

Association of Consulting Engineers Malaysia  
Institute of Engineer Malaysia  
Jabatan Kerja Raya Malaysia (Cawangan Kejuruteraan Elektrik)  
Lightning Research Sdn Bhd  
Markas Angkatan Tentera Malaysia  
Mega Jati Consult Sdn Bhd  
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Tenaga Nasional Berhad  
The Electrical and Electronics Association of Malaysia  
TM Research and Development  
TNB Research Sdn Bhd  
Universiti Teknologi Malaysia

## NATIONAL FOREWORD

The adoption of the IEC Standard as a Malaysian Standard was recommended by the Technical Committee on Electromagnetic Compatibility (EMC) under the authority of the Electrotechnical Industry Standards Committee (ISC E).

This Malaysian Standard is identical with IEC 62305-1:2006, *Protection Against Lightning – Part 1: General principles*, 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”;  
and
- b) the comma which is used as a decimal sign (if any), to read as a point.

MS IEC 62305 consist of the following parts, under the general title *Protection against lightning*:

- *Protection against lightning-Part 1: General principles*
- *Protection against lightning-Part 2: Risk management*
- *Protection against lightning-Part 3: Physical damage to structures and life hazard*
- *Protection against lightning-Part 4: Electrical and electronic systems within structures*

This standard cancels and replaces

- a) MS IEC 61024-1:2001, *Protection of structures against lightning Part 1: General principles*
- b) MS IEC 61024-1-1:2001, *Protection of structures against lightning Part 1: General principles Section 1: Guide A - Selection of protection levels of lightning protection systems*
- c) MS IEC 61024-1-2: 2001, *Protection of structures against lightning Part 1-2: General principles, Guide B - Design, installation, maintenance and inspection of lightning protection systems*

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.

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PROTECTION AGAINST LIGHTNING –****Part 1: General principles**

## FOREWORD

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International Standard IEC 62305-1 has been prepared by IEC technical committee 81: Lightning protection.

The IEC 62305 series (Parts 1 to 5), is produced in accordance with the New Publications Plan, approved by National Committees (81/171/RQ (2001-06-29)), which restructures and updates in a more simple and rational form the publications of the IEC 61024 series, the IEC 61312 series and the IEC 61663 series.

The text of this first edition of IEC 62305-1 is compiled from and replaces

- IEC 61024-1-1, first edition (1993).



The text of this standard is based on the following documents:

FDIS	Report on voting
81/262/FDIS	81/267/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted, as close as possible, in accordance with the ISO/IEC Directives, Part 2.

IEC 62305 consists of the following parts, under the general title *Protection against lightning*:

- Part 1: General principles
- Part 2: Risk management
- Part 3: Physical damage to structures and life hazard
- Part 4: Electrical and electronic systems within structures
- Part 5: Services<sup>1</sup>

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

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<sup>1</sup> To be published