

ELEKTROMAGNETILINE ÜHILDUVUS. OSA 6-3:  
ERIALASED PÕHISTANDARDID. EMISSIONISTANDARD  
SEADMETELE OLMEKESKKONDADES

Electromagnetic compatibility (EMC) - Part 6-3: Generic  
standards - Emission standard for equipment in  
residential environments

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 61000-6-3:2021 sisaldab Euroopa standardi EN IEC 61000-6-3:2021 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 61000-6-3:2021 consists of the English text of the European standard EN IEC 61000-6-3:2021.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 26.03.2021.	Date of Availability of the European standard is 26.03.2021.
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English Version

**Electromagnetic compatibility (EMC) - Part 6-3: Generic  
standards - Emission standard for equipment in residential  
environments  
(IEC 61000-6-3:2020)**

Compatibilité électromagnétique (CEM) - Partie 6-3:  
Normes génériques - Norme sur l'émission relative aux  
appareils utilisés dans les environnements résidentiels  
(IEC 61000-6-3:2020)

Elektromagnetische Verträglichkeit (EMV) - Teil 6-3:  
Fachgrundnormen - Störaussendung für Wohnbereich,  
Geschäfts- und Gewerbebereiche sowie Kleinbetriebe  
(IEC 61000-6-3:2020)

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## European foreword

The text of document CIS/H/400/CDV, future edition 3 of IEC 61000-6-3, prepared by CISPR SC H “Limits for the protection of radio services” of CISPR “International special committee on radio interference” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61000-6-3:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2021-09-26 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2024-03-26 document have to be withdrawn

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61000-6-1	NOTE Harmonized as EN IEC 61000-6-1
IEC 61000-6-2:2016	NOTE Harmonized as EN IEC 61000-6-2:2019 (not modified).
IEC 61000-6-4	NOTE Harmonized as EN IEC 61000-6-4.
IEC 61000-6-8	NOTE Harmonized as EN IEC 61000-6-8.
IEC 61158-1:2019	NOTE Harmonized as EN IEC 61158-1:2019 (not modified).
CISPR 11:2015	NOTE Harmonized as EN 55011:2016 (modified).
CISPR 14-2	NOTE Harmonized as EN 55014-2.
CISPR 35	NOTE Harmonized as EN 55035.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-3-2	2018	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)	EN IEC 61000-3-2	2019
IEC 61000-3-3	2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection	EN 61000-3-3	2013
+ A1	2017		+ A1	2019
IEC 61000-3-11	2017	Electromagnetic compatibility (EMC) - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current $\leq 75$ A and subject to conditional connection	EN IEC 61000-3-11	2019
IEC 61000-3-12	2011	Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current $> 16$ A and $\leq 75$ A per phase	EN 61000-3-12	2011
IEC 61000-4-20	2010	Electromagnetic compatibility (EMC) - Part 4-20: Testing and measurement techniques - Emission and immunity testing in transverse electromagnetic (TEM) waveguides	EN 61000-4-20	2010

CISPR 14-1	2016	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	EN 55014-1	2017
-	-		+ A11	2020
CISPR 16-1-1	2019	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus	EN IEC 55016-1-1	2019
CISPR 16-1-2	2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2: Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurements	EN 55016-1-2	2014
+ A1	2017		+ A1	2018
CISPR 16-1-4	2019	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements	EN IEC 55016-1-4	2019
CISPR 16-1-5	2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-5: Radio disturbance and immunity measuring apparatus - Antenna calibration sites and reference test sites for 5 MHz to 18 GHz	EN 55016-1-5	2015
+ A1	2016		+ A1	2017
CISPR 16-1-6	2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-6: Radio disturbance and immunity measuring apparatus - EMC antenna calibration	EN 55016-1-6	2015
+ A1	-		+ A1	-
CISPR 16-2-1	2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	EN 55016-2-1	2014
+ A1	2017		+ A1	2017
CISPR 16-2-3	2016	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	EN 55016-2-3	2017

CISPR 16-4-2	2011	Specification for radio disturbance and immunity measuring apparatus and methods - Part 4-2: Uncertainties, statistics and limit modelling - Measurement instrumentation uncertainty	EN 55016-4-2	2011
+ A1	2014		+ A1	2014
+ A2	2018		+ A2	2018
CISPR 32	2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	EN 55032	2015
-	-		+ A11	2020

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE  
COMITÉ INTERNATIONAL SPÉCIAL DES PERTURBATIONS RADIOÉLECTRIQUES

GENERIC EMC STANDARD  
NORME GÉNÉRIQUE EN CEM

**Electromagnetic compatibility (EMC)–  
Part 6-3: Generic standards – Emission standard for equipment in residential  
environments**

**Compatibilité électromagnétique (CEM)–  
Partie 6-3: Normes génériques – Norme sur l'émission relative aux appareils  
utilisés dans les environnements résidentiels**





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**ELECTROMAGNETIC COMPATIBILITY (EMC) –****Part 6-3: Generic standards –  
Emission standard for equipment in residential environments**

## FOREWORD

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International Standard IEC 61000-6-3 has been prepared by CISPR subcommittee H: Limits for the protection of radio services.

This third edition cancels and replaces the second edition published in 2006 and its Amendment 1:2010. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) alternative method for measuring conducted emissions on DC ports;
- b) limits and requirements applicable only to equipment intended to be used in residential locations;
- c) more stringent limits for DC power ports.

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

CDV	Report on voting
CIS/H/400/CDV	CIS/H/413/RVC

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 61000 series, published under the general title *Electromagnetic compatibility (EMC)*, can be found on the IEC website.

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

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## INTRODUCTION

IEC 61000 is published in separate parts according to the following structure:

### **Part 1: General**

General considerations (introduction, fundamental principles)

Definitions, terminology

### **Part 2: Environment**

Description of the environment

Classification of the environment

Compatibility levels

### **Part 3: Limits**

Emission limits

Immunity limits (insofar as they do not fall under the responsibility of the product committees)

### **Part 4: Testing and measurement techniques**

Measurement techniques

Testing techniques

### **Part 5: Installation and mitigation guidelines**

Installation guidelines

Mitigation methods and devices

### **Part 6: Generic standards**

### **Part 9: Miscellaneous**

Each part is further subdivided into several parts published either as International Standards or technical reports/specifications, some of which have already been published as sections. Others will be published with the part number followed by a dash and a second number identifying the subdivision (example: IEC 61000-6-1).