

Irish Standard I.S. EN IEC 80601-2-60:2020

Medical electrical equipment - Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment

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I.S. EN IEC 80601-2-60:2020

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National Foreword

I.S. EN IEC 80601-2-60:2020 is the adopted Irish version of the European Document EN IEC 80601-2-60:2020, Medical electrical equipment - Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment

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EN IEC 80601-2-60

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2020

ICS 11.040.01

Supersedes EN 80601-2-60:2015 and all of its amendments and corrigenda (if any)

English Version

Medical electrical equipment - Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment (IEC 80601-2-60:2019)

Appareils électromédicaux - Partie 2-60: Exigences particulères pour la sécurité de base et les performances essentielles des équipements dentaires (IEC 80601-2-60:2019)

Medizinische elektrische Geräte - Teil 2-60: Besondere Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale von Dental-Geräten (IEC 80601-2-60:2019)

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

EN IEC 80601-2-60:2020 (E)

European foreword

The text of document 62D/1683/FDIS, future edition 2 of IEC 80601-2-60, prepared by SC 62D "Electromedical equipment" of IEC/TC 62 "Electrical equipment in medical practice" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 80601-2-60:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-04-03

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

IEC 60038	NOTE	Harmonized as EN 60038
IEC 60601-1-10	NOTE	Harmonized as EN 60601-1-10
IEC 61810-7:2006	NOTE	Harmonized as EN 61810-7:2006 (not modified)
ISO 7494-2:2015	NOTE	Harmonized as EN ISO 7494-2:2015 (not modified)
ISO 13732-1:2006	NOTE	Harmonized as EN ISO 13732-1:2008 (not modified)
ISO 17664:2017	NOTE	Harmonized as EN ISO 17664:2017 (not modified)
ISO 18397:2016	NOTE	Harmonized as EN ISO 18397:2016 (not modified)
ISO 21530:2004	NOTE	Harmonized as EN ISO 21530:2004 (not modified)

EN IEC 80601-2-60:2020 (E)

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.

Clause 2 of EN 60601-1:2006 applies, except as follows:

Publication	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>	
Replace IEC 60825-1	2014	Safety of laser products - Part Equipment classification and requirement	1:EN 60825-1	2014	
		+EN 60825- 1:2014/AC:2017-06			
			+A11	2020	
Addition IEC 60601-1	2005	Medical electrical equipment - Part General requirements for basic safety a essential performance		2006	
		•	+A12	2014	
			+EN 60601	1-2010	
			1:2006/corrigendur	m	
		Mar. 2010			
			+AC	2014	
IEC 60604 2 2	2017	Madical alastrias aguinment Dort 2	+A11	2011	
IEC 60601-2-2	2017	Medical electrical equipment - Part 2- Particular requirements for the basic safe		2018	
		•	gh		
		•	gh		
		frequency surgical accessories	9''		
IEC 60601-2-22	2007	Medical electrical equipment - Part 2-2	22:EN 60601-2-22	2013	
		Particular requirements for basic safe			
		and essential performance of surgic			
		cosmetic, therapeutic and diagnostic las	er		
		equipment			
IEC 60601-2-57	2011	Medical electrical equipment - Part 2-5		2011	
		Particular requirements for the basic safe			
		and essential performance of non-las			
		J 1 1	for		
		therapeutic, diagnostic, monitoring a cosmetic/aesthetic use	nd		
IEC 60664-1	2007		entEN 60664-1	2007	
0 0000+ 1	2001	within low-voltage systems - Part		2001	
		Principles, requirements and tests			
		, , ,			

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EN IEC 80601-2-60:2020 (E)

Publication IEC 60664-4	<u>Year</u> 2005	Title Insulation coordination for equipment within low-voltage systems - Part Consideration of high-frequency voltages		<u>Year</u> 2006
			+EN	60664-2006
			4:2006/corrig	gendum
			Oct. 2006	
IEC 61180	2016	High-voltage test techniques for voltage equipment - Definitions, test		2016
		procedure requirements, test equipmen	t	
IEC 61810-1	2015	Electromechanical elementary relays - 1: General and safety requirements	PartEN 61810-1	2015
ISO 1942	2009	Dentistry Vocabulary	EN ISO 1942	2 2010
ISO 14457	2017	•	EN ISO 1445	57 2017



IEC 80601-2-60

Edition 2.0 2019-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Medical electrical equipment -

Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment

Appareils électromédicaux -

Partie 2-60: Exigences particulières pour la sécurité de base et les performances essentielles des équipements dentaires





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IEC Central Office Tel.: +41 22 919 02 11

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IEC 80601-2-60

Edition 2.0 2019-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Medical electrical equipment -

Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment

Appareils électromédicaux -

Partie 2-60: Exigences particulières pour la sécurité de base et les performances essentielles des équipements dentaires

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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MEDICAL ELECTRICAL EQUIPMENT -

Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment

FOREWORD

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International standard IEC 80601-2-60 has been prepared by a Joint Working Group of subcommittee 62D: Electromedical equipment, of IEC technical committee 62: Electrical equipment in medical practice, and subcommittee 6: Dental equipment, of ISO technical committee 106: Dentistry.

This second edition cancels and replaces the first edition published in 2012. This edition constitutes a technical revision.

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

a) alignment with IEC 60601-1:2005 and IEC 60601-1:2005/AMD1:2012.

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The text of this International Standard is based on the following documents:

FDIS	Report on voting
62D/1683/FDIS	62D/1691/RVD

Full information on the voting for the approval of this International Standard 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.

This publication is published as a double logo standard.

In this document, the following print types are used:

- requirements and definitions: roman type;
- test specifications: italic type;
- informative material appearing outside of tables, such as notes, examples and references: in smaller type.
 Normative text of tables is also in a smaller type;
- TERMS DEFINED IN CLAUSE 3 OF THE GENERAL STANDARD, IN THIS PARTICULAR STANDARD OR AS NOTED: SMALL CAPITALS.

In referring to the structure of this document, the term

- "clause" means one of the seventeen numbered divisions within the table of contents, inclusive of all subdivisions (e.g. Clause 7 includes subclauses 7.1, 7.2, etc.);
- "subclause" means a numbered subdivision of a clause (e.g. 7.1, 7.2 and 7.2.1 are all subclauses of Clause 7).

References to clauses within this document are preceded by the term "Clause" followed by the clause number. References to subclauses within this particular standard are by number only.

In this document, the conjunctive "or" is used as an "inclusive or" so a statement is true if any combination of the conditions is true.

The verbal forms used in this document conform to usage described in Clause 7 of the ISO/IEC Directives, Part 2. For the purposes of this document, the auxiliary verb:

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An asterisk (*) as the first character of a title or at the beginning of a paragraph or table title indicates that there is guidance or rationale related to that item in Annex AA.

A list of all parts of the IEC 60601 series, published under the general title: *Medical electrical equipment*, can be found on the IEC website.

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- reconfirmed,
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MEDICAL ELECTRICAL EQUIPMENT -

Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment

201.1 Scope, object and related standards

Clause 1 of the general standard applies, except as follows:

201.1.1 Scope

Replacement:

This part of IEC 80601 applies to the BASIC SAFETY and ESSENTIAL PERFORMANCE OF DENTAL UNITS, DENTAL PATIENT CHAIRS, DENTAL HANDPIECES AND DENTAL OPERATING LIGHTS, hereafter referred to as DENTAL EQUIPMENT.

If a clause or subclause is specifically intended to be applicable to ME EQUIPMENT only, or to ME SYSTEMS only, the title and content of that clause or subclause will say so. If that is not the case, the clause or subclause applies both to ME EQUIPMENT and to ME SYSTEMS, as relevant.

HAZARDS inherent in the intended physiological function of ME EQUIPMENT or ME SYSTEMS within the scope of this document are not covered by specific requirements in this document except in 7.2.13 and 8.4.1 of the general standard.

NOTE See also 4.2 of the general standard.

201.1.2 Object

Replacement:

The object of this particular standard is to establish BASIC SAFETY and ESSENTIAL PERFORMANCE requirements for DENTAL EQUIPMENT (as defined in 201.3.202.)

201.1.3 Collateral standards

Addition:

This particular standard refers to those applicable collateral standards that are listed in Clause 2 of the general standard and Clause 201.2 of this particular standard.

IEC 60601-1-3 and IEC 60601-1-10 do not apply. All other published collateral standards in the IEC 60601-1 series apply as published.

¹ The general standard is IEC 60601-1:2005 and IEC 60601-1:2005/AMD1:2012, Medical electrical equipment – Part 1: General requirements for basic safety and essential performance.



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