

Irish Standard I.S. EN IEC 60601-2-83:2020

Medical electrical equipment - Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment

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#### I.S. EN IEC 60601-2-83:2020

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## **National Foreword**

I.S. EN IEC 60601-2-83:2020 is the adopted Irish version of the European Document EN IEC 60601-2-83:2020, Medical electrical equipment - Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment

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# EUROPEAN STANDARD

# EN IEC 60601-2-83

# NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2020

ICS 11.040.60

**English Version** 

# Medical electrical equipment - Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment (IEC 60601-2-83:2019)

Appareils électromédicaux - Partie 2-83: Exigences particulières pour la sécurité de base et les performances essentielles des appareils de luminothérapie à domicile (IEC 60601-2-83:2019) Medizinische elektrische Geräte - Teil 2-83: Besondere Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale von Heim-Lichttherapiegeräten (IEC 60601-2-83:2019)

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## EN IEC 60601-2-83:2020 (E)

# European foreword

The text of document 62D/1682/FDIS, future edition 1 of IEC 60601-2-83, 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 60601-2-83:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2020-10-03 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2023-04-03 document have to be withdrawn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 60335-2-113	NOTE	Harmonized as FprEN 60335-2-113 to be published
IEC 60601-2-57:2011	NOTE	Harmonized as EN 60601-2-57:2011 (not modified)
IEC 60601-1-10	NOTE	Harmonized as EN 60601-1-10
IEC 60601-1-12	NOTE	Harmonized as EN 60601-1-12

# 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: <a href="http://www.cenelec.eu">www.cenelec.eu</a>.

The Annex ZA of EN 60601-1:2006 is applicable, except as follows:

Publication	Year	Title	<u>EN/HD</u>	Year
Replace IEC 60601-1-2	2014	Medical electrical equipment - Part General requirements for basic safety essential performance - Collar Standard: Electromagnetic disturbance Requirements and tests	and eral	2015
IEC 60601-1-6	2010	Medical electrical equipment - Part General requirements for basic safety essential performance - Collar standard: Usability	and	2010
ISO 15223-1	2016	Medical devices – Symbols to be used medical device labels, labelling information to be supplied – Part General requirements	and 1:	2016
			+prA1	
Addition IEC 60601-1	2005	Medical electrical equipment - Par General requirements for basic safety essential performance		2006
			1:2006/corrigendu Mar. 2010 +AC	2014
IEC 60601-1-11	2015	Medical electrical equipment Part_1 General requirements for basic safety essential performance Collar standard: Requirements for med electrical equipment and medical elect systems used in the home health environment	and eral dical rical	2011 -
IEC 62471 (mod)	2006	Photobiological safety of lamps and last systems	ampEN 62471	2008

# EN IEC 60601-2-83:2020 (E)

Publication	Year	Title	<u>EN/HD</u>	Year
ISO 3864-1	2011	Graphical symbols - Safety colours safety signs - Part 1: Design principle safety signs and safety markings		-



# IEC 60601-2-83

Edition 1.0 2019-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



Medical electrical equipment – Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment

Appareils électromédicaux -

Partie 2-83: Exigences particulières pour la sécurité de base et les performances essentielles des appareils de luminothérapie à domicile





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# IEC 60601-2-83

Edition 1.0 2019-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



Medical electrical equipment – Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment

Appareils électromédicaux -

Partie 2-83: Exigences particulières pour la sécurité de base et les performances essentielles des appareils de luminothérapie à domicile

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

# MEDICAL ELECTRICAL EQUIPMENT -

# Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment

# FOREWORD

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

FDIS	Report on voting
62D/1682/FDIS	62D/1687/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.

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- 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.

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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.

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

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### INTRODUCTION

This part of IEC 60601 has been prepared to provide safety requirements for HOME LIGHT THERAPY EQUIPMENT, based on IEC 60601-1 and its collateral standards. This equipment is intended to be used in the HOME HEALTHCARE ENVIRONMENT and is typically used by a LAY OPERATOR, who is familiar with this environment and the specific characteristics of lamps. Some requirements of IEC 60601-1-11 are amended to better suit this type of ME EQUIPMENT and the environment in which it is used.

HOME LIGHT THERAPY EQUIPMENT provides light therapy by means of eye-mediated photobiological effects (which can be visual or non-visual) and skin-mediated photobiological effects (non-visual only). Possible applications include pain relief, psoriasis treatment, and treatment of winter depression (seasonal affective disorder, SAD).

This document is developed because IEC 60601-2-57 [2]<sup>1</sup> only covers light source equipment providing light therapy by means of non-visual photobiological effects, which excludes an important group of light source equipment creating visual photobiological effects. Further, IEC 60601-2-57 focuses on radiation aspects and related markings but hardly provides any product-specific safety requirements. IEC 60335-2-113 [1] provides such specific requirements for household appliances with light sources for cosmetic and beauty care, but does not apply to equipment with medical purposes. IEC 60601-2-83 addresses all safety requirements for HOME LIGHT THERAPY EQUIPMENT and has taken over relevant requirements from [1] and [2].

This document is the first edition of IEC 60601-2-83. It is aligned with IEC 60601-1:2005 and IEC 60601-1:2005/AMD1:2012, IEC 60601-1-2:2014, IEC 60601-1-6:2010 and IEC 60601-1-6:2010/AMD1:2013, and IEC 60601-1-11:2015.

<sup>&</sup>lt;sup>1</sup> Numbers in square brackets refer to the Bibliography.

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# MEDICAL ELECTRICAL EQUIPMENT –

# Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment

## 201.1 Scope, object and related standards

Clause 1 of the general standard<sup>2</sup> applies, except as follows:

### 201.1.1 Scope

#### Replacement:

This part of IEC 60601 is applicable to the BASIC SAFETY and ESSENTIAL PERFORMANCE of HOME LIGHT THERAPY EQUIPMENT, intended for use in the HOME HEALTHCARE ENVIRONMENT. HOME LIGHT THERAPY EQUIPMENT is typically used by a LAY OPERATOR.

The scope of this document includes all light sources except laser.

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.

### 201.1.2 Object

#### Replacement:

The object of this particular standard is to establish particular requirements for the BASIC SAFETY and ESSENTIAL PERFORMANCE OF HOME LIGHT THERAPY EQUIPMENT.

### 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 60601-1-2:2014, IEC 60601-1-6:2010 and IEC 60601-1-6:2010/AMD1:2013 and IEC 60601-1-11:2015 apply as modified in Clauses 202, 206 and 211, respectively. IEC 60601-1-3, IEC 60601-1-8, IEC 60601-1-10 and IEC 60601-1-12 do not apply. All other published collateral standards in the IEC 60601-1 series apply as published.

### 201.1.4 Particular standards

#### Replacement:

In the IEC 60601 series, particular standards may modify, replace or delete requirements contained in the general standard and collateral standards as appropriate for the particular ME

<sup>&</sup>lt;sup>2</sup> 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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