



NSAI
Standards

Irish Standard
I.S. EN 60076-2:2011

Power transformers -- Part 2: Temperature rise for liquid-immersed transformers (IEC 60076-2:2011 (EQV))

I.S. EN 60076-2:2011

Incorporating amendments/corrigenda issued since publication:

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NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie
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English version

**Power transformers -
Part 2: Temperature rise for liquid-immersed transformers
(IEC 60076-2:2011)**

Transformateurs de puissance -
Partie 2: Echauffement des
transformateurs immergés dans le liquide
(CEI 60076-2:2011)

Leistungstransformatoren -
Teil 2: Übertemperaturen für
flüssigkeitsgefüllte Transformatoren
(IEC 60076-2:2011)

This European Standard was approved by CENELEC on 2011-03-30. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 14/669/FDIS, future edition 3 of IEC 60076-2, prepared by IEC TC 14, Power transformers, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60076-2 on 2011-03-30.

This European Standard supersedes EN 60076-2:1997.

EN 60076-2:2011 includes the following significant technical changes with respect to EN 60076-2:1997:

- the standard is applicable only to liquid immersed transformers;
- the winding hot-spot temperature rise limit was introduced among the prescriptions;
- the modalities for the temperature rise test were improved in relation to the new thermal requirements;
- five informative annexes were added in order to facilitate the standard application.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2011-12-30
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2014-03-30

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60076-2:2011 was approved by CENELEC as a European Standard without any modification.

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

- [2] IEC 60296:2003 NOTE Harmonized as EN 60296:2004 (not modified).
 - [3] IEC 60567:2005 NOTE Harmonized as EN 60567:2005 (not modified).
 - [4] IEC 60599:1999 NOTE Harmonized as EN 60599:1999 (not modified).
 - [5] IEC 60836:2005 NOTE Harmonized as EN 60836:2005 (not modified).
 - [6] IEC 61099:2010 NOTE Harmonized as EN 61099:2010 (not modified).
-

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60076-1 (mod)	-	Power transformers - Part 1: General	EN 60076-1	-
IEC 60076-8	1997	Power transformers - Part 8: Application guide	-	-
IEC 60085	2007	Electrical insulation - Thermal evaluation and designation	EN 60085	2008
IEC 61181	2007	Mineral oil-filled electrical equipment - Application of dissolved gas analysis (DGA) to factory tests on electrical equipment	EN 61181	2007
IEC Guide 115	2007	Application of uncertainty of measurement to conformity assessment activities in the electrotechnical sector	-	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

POWER TRANSFORMERS –

Part 2: Temperature rise for liquid-immersed transformers

FOREWORD

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International Standard IEC 60076-2 has been prepared by IEC technical committee 14: Power transformers.

This third edition cancels and replaces the second edition published in 1993. It is a technical revision.

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

- a) the standard is applicable only to liquid immersed transformers;
- b) the winding hot-spot temperature rise limit was introduced among the prescriptions;
- c) the modalities for the temperature rise test were improved in relation to the new thermal requirements;
- d) five informative annexes were added in order to facilitate the standard application.

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

FDIS	Report on voting
14/669/FDIS	14/676/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 in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 60076 series can be found, under the general title *Power transformers*, on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability 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
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