***भारतीय मानक Indian Standard***

**IS 2026 (Part 10):2024**

**IEC 60076-10: 2016**

**पावर ट्रांसफार्मर**

**भाग 10 ध्वनि स्तर का निर्धारण**

(*पहला* पुनरीक्षण)

Power Transformers

Part 10 Determination of Sound Levels

(*First Revision*)

ICS 29.180

© BIS 2024

© IEC 2016

A blue square with white text

Description automatically generated

भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

**मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली — 110002**

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG

NEW DELHI — 110002

www.bis.gov.in[www.standardsbis.in](http://www.standardsbis.in)

**November 2024 Price Group X**

Transformer Sectional Committee, ETD16

NATIONAL FOREWORD

This Indian Standard which is identical with IEC 60076-10 “Power transformers-Part10: Determination of sound levels” issued by the International Electrotechnical Commission (IEC) was adopted by the Bureau of Indian Standards on the recommendation of the Transformer Sectional Committee.

This revision has been undertaken to align with the latest version of IEC 60076-10:2016.

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

1. Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
2. Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this standard, reference appears to International Standards for which Indian Standards also exists. The corresponding Indian Standards, which are to be substituted, are listed below along with their degree of equivalence for the editions indicated:

|  |  |  |
| --- | --- | --- |
| *International Standard* | *Corresponding Indian Standard* | *Degree of Equivalence* |
| IEC 60076-1: 2011, Power transformers– Part 1: General | IS 2026 (Part 1): 2011 Power transformers: Part 1 general (*Second Revision*) | Modified/Technically  Equivalent |
| IEC 60076-8: 1997, Power transformers– Part 8: Application guide | IS 2026 (Part 8): 2009, Power transformers: Part 8 application guide | Identical |
| IEC 61672-1: 2013, Electroacoustics - Sound level meters – Part 1: Specifications | IS 15575 (Part 1): 2016, Electroacoustics- Sound level meters: Part 1 Specifications *(First Revision)* | Identical |
| IEC 61672-2: 2013, Electro acoustics– Sound level meters–Part 2: Pattern Evaluation tests | IS 15575 (Part 2): 2023, Electroacoustics-Sound Level Meters Part 2: Pattern Evaluation Tests *(Second Revision)* | Identical |

The technical committee has reviewed the provisions of the following international standards referred in this adopted standard and decided that they are acceptable for use in conjunction with this standard.

|  |  |
| --- | --- |
| *International Standard* | *Title* |
| *IEC 61043:1993* | *Electro acoustics–Instruments for the measurement of sound intensity – Measurements with pairs of pressure sensing*  *microphones.* |
| *ISO 3382-2:2008* | *Acoustics–Measurement of room acoustic parameters–Part2:*  *Reverberation time in ordinary rooms.* |
| *ISO 3746:2010* | *Acoustics – Determination of sound power levels and sound energy levels of noises sources causing sound pressure–Survey*  *method using an enveloping measurement surface over a reflecting plane.* |
| *ISO 9614-1:1993* | *Acoustics –Determination of sound power levels of noise sources using sound intensity–Part 1: Measurement at discrete points.* |
| *ISO 9614-2:1996* | *Acoustics– Determination of sound power levels of noise sources using sound intensity – Part 2: Measurement by scanning.* |

Only the English language text has been retained while adopting it in this Indian Standard, and as such, the page numbers given here are not the same as in the IEC Publication.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated expressing the result of a test, shall be rounded off in accordance with IS 2: 2022 ‘Rules for rounding of numerical values (*Second Revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.