

BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

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Draft Indian Standard

Voltage sourced converter (VSC) valves for high-voltage direct current (HVDC) power transmission – Electrical testing

(First Revision of IS 16075)

(ICS 29.200, 29.240.99)

HVDC Power Systems
Sectional Committee, ETD 40

Last date for comments-04/12/2024

NATIONAL FOREWORD

This Draft Indian Standard (First Revision) which is identical with IEC 62501: 2024 ‘Voltage sourced converter (VSC) valves for high-voltage direct current (HVDC) power transmission – Electrical testing’ issued by the International Electrotechnical Commission (IEC) is proposed to be adopted by the Bureau of Indian Standards on the recommendation of the HVDC Power Systems Sectional Committee and approval of the Electrotechnical Division Council.

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

- a) Wherever the words ‘International Standard’ appears referring to this standard, they should be read as ‘Indian Standard’.
- b) 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 adopted 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:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60060 (all parts), High-voltage test techniques	IS 2071 (Part 1) : 2016/ IEC 60060-1 : 2010 High - Voltage test techniques Part 1 general definitions and test requirements (<i>third revision</i>)	Identical
	IS/IEC 60060-2: 2010 High - Voltage test techniques Part 2 measuring systems	Identical
	IS/IEC 60060-3: 2006 High - Voltage test	Identical

	techniques Part 3 definitions and requirements for on - Site testing	
IEC 60071 (all parts), Insulation co-ordination	IS/IEC 60071-1: 2019 Insulation coordination Part 1 Definition principles and rules (<i>first revision</i>)	Identical
	IS/IEC 60071-2 : 2018 Insulation coordination Part 2 Application guide	Identical
	IS/IEC 60071-4 : 2004 Insulation coordination Part 4 Computational guide to insulation Co-ordination and modeling of electrical networks	Identical
	IS/IEC/TR 60071-5 : 2014 Insulation Co-ordination Part 5 Procedures for High-Voltage Direct Current (HVDC) Converter Stations	Identical
IEC 60270, High-voltage test techniques – Partial discharge measurements	IS/IEC 60270 : 2000 High -Voltage test techniques – Partial discharge measurements	Identical
IEC 60700-1:2015, Thyristor valves for high voltage direct current (HVDC) power transmission – Part 1: Electrical testing	IS 14911 (Part 1) : 2020/ IEC 60700-1 : 2015 Thyristor Valves for high voltage direct current (HVDC) power Transmission Part 1 Electrical testing (<i>first revision</i>)	Identical
IEC 62747, Terminology for voltage-sourced converters (VSC) for high-voltage direct current (HVDC) systems	IS 18461 : 2024/ IEC 62747: 2014+Amd 1: 2019 Terminology for Voltage-Sourced converters (VSC) for High-Voltage direct current (HVDC) Systems	Identical
ISO/IEC 17025, General requirements for the competence of testing and calibration laboratories	IS/ISO/IEC 17025 : 2017 General requirements for the competence of testing and calibration laboratories (<i>second revision</i>)	Identical

Only 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 International Standard.

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 off 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.

NOTE — The technical content of their document has not been enclosed as there are identical with the corresponding IEC standards for details, please refer the corresponding IEC 62501: 2024 or kindly contact:

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