

TECHNICAL REPORT

AMENDMENT 2

High-voltage direct current (HVDC) systems – Application of active filters

IECNORM.COM : Click to view the full PDF of IEC TR 62544:2011/AMD2:2020



THIS PUBLICATION IS COPYRIGHT PROTECTED
Copyright © 2020 IEC, Geneva, Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester. If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigendum or an amendment might have been published.

IEC publications search - webstore.iec.ch/advsearchform

The advanced search enables to find IEC publications by a variety of criteria (reference number, text, technical committee,...). It also gives information on projects, replaced and withdrawn publications.

IEC Just Published - webstore.iec.ch/justpublished

Stay up to date on all new IEC publications. Just Published details all new publications released. Available online and once a month by email.

IEC Customer Service Centre - webstore.iec.ch/csc

If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: sales@iec.ch.

Electropedia - www.electropedia.org

The world's leading online dictionary on electrotechnology, containing more than 22 000 terminological entries in English and French, with equivalent terms in 16 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

IEC Glossary - std.iec.ch/glossary

67 000 electrotechnical terminology entries in English and French extracted from the Terms and Definitions clause of IEC publications issued since 2002. Some entries have been collected from earlier publications of IEC TC 37, 77, 86 and CISPR.

IECNORM.COM : Click to view the full PDF of IEC TR 60747-2011/AMD2:2020

TECHNICAL REPORT

AMENDMENT 2

High-voltage direct current (HVDC) systems – Application of active filters

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 29.240.99

ISBN 978-2-8322-7841-3

Warning! Make sure that you obtained this publication from an authorized distributor.

FOREWORD

This amendment has been prepared by subcommittee 22F: Power electronics for electrical transmission and distribution systems, of IEC technical committee 22: Power electronic systems and equipment.

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

Draft TR	Report on voting
22F/519/DTR	22F/525/RVDTR

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website 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
- amended.

2 Normative references

Replace the existing reference "IEC/TR 62001:2009" by the following new reference:

IEC TR 62001-1:2016, *High-voltage direct current (HVDC) systems – Guidance to the specification and design evaluation of AC filters – Part 1: Overview*

3 Terms and definitions

Replace, in the existing first paragraph, the reference "IEC 62001:2009" by "IEC TR 62001-1:2016".

Replace, in the existing note, modified by IEC TR 62544:2011/AMD1:2016, the reference "IEC 62001" by "IEC TR 62001-1".

5.1 Harmonic disturbances on the d.c. side

Replace, in the second paragraph, the existing two bullet points by the following new bullet points:

- The induced voltage U_{ind} in a theoretically 1 km telephone line situated 1 km from the d.c. overhead line should be limited to a set value.
- A one minute mean value of the equivalent psophometric current I_{pc} at any point on the d.c. pole overhead line should be limited to a set value.

6.2 Harmonic disturbances on the a.c. side of a HVDC system

Replace, in the existing last paragraph, the reference "IEC 62001:2009" by "IEC TR 62001-1:2016".

6.3.1 Conventional passive filters

Replace, in the existing second paragraph, the reference "IEC 62001:2009, Clauses 7 and 8" by "IEC TR 62001-1:2016, Clauses 6 and 7".

Bibliography

Add, at the end of the Bibliography, modified by IEC TR 62544:2011/AMD1:2016, the following new references:

- [21] CIGRÉ WG B4.47, "Special Aspects of AC Filter Design for HVDC Systems", Technical Brochure 553, 2013
- [22] IEC TR 62001-2:2016, *High-voltage direct current (HVDC) systems – Guidance to the specification and design evaluation of AC filters – Part 2: Performance*
- [23] IEC TR 62001-3:2016, *High-voltage direct current (HVDC) systems – Guidance to the specification and design evaluation of AC filters – Part 3: Modelling*
- [24] IEC TR 62001-4:2016, *High-voltage direct current (HVDC) systems – Guidance to the specification and design evaluation of AC filters – Part 4: Equipment*

IECNORM.COM : Click to view the full PDF of IEC TR 62544:2011/AMD2:2020

[IECNORM.COM](https://www.iecnorm.com) : Click to view the full PDF of IEC TR 62544:2011/AMD2:2020