



**NSAI**  
Standards

Irish Standard  
I.S. EN 61803:1999&A1:2010&A2:2016

# Determination of power losses in high-voltage direct current (HVDC) converter stations with line-commutated converters

**I.S. EN 61803:1999&A1:2010&A2:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

EN 61803:1999/A1:2010

EN 61803:1999/A2:2016

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

*This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):*

*NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.*

*This document is based on:*

EN 61803:1999

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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

Údarás um Chaighdeán Náisiúnta na hÉireann

## National Foreword

I.S. EN 61803:1999&A1:2010&A2:2016 is the adopted Irish version of the European Document EN 61803:1999, Determination of power losses in high-voltage direct current (HVDC) converter stations with line-commutated converters

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with this document does not of itself confer immunity from legal obligations.**

*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61803:1999/A2**

October 2016

ICS 29.200

English Version

**Determination of power losses in high-voltage direct current  
(HVDC) converter stations with line commutated converters  
(IEC 61803:1999/A2:2016)**

Détermination des pertes en puissance dans les postes de  
conversion en courant continu à haute tension (CCHT)  
munis de convertisseurs commutés par le réseau  
(IEC 61803:1999/A2:2016)

Bestimmung der Leistungsverluste in  
Hochspannungsgleichstrom (HGÜ)-Stromrichterstationen  
(IEC 61803:1999/A2:2016)

This amendment A2 modifies the European Standard EN 61803:1999; it was approved by CENELEC on 2016-06-29. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## **EN 61803:1999/A2:2016**

### **European foreword**

The text of document 22F/374/CDV, future IEC 61803:1999/A2, prepared by SC 22F “Power electronics for electrical transmission and distribution systems” of IEC/TC 22 “Power electronic systems and equipment” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61803:1999/A2:2016.

The following dates are fixed:

- latest date by which the document has to be (dop) 2017-04-14  
implemented at national level by  
publication of an identical national  
standard or by endorsement
- latest date by which the national (dow) 2019-10-14  
standards conflicting with the  
document have to be withdrawn

### **Endorsement notice**

The text of the International Standard IEC 61803:1999/A2:2016 was approved by CENELEC as a European Standard without any modification.

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