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Wind energy generation systems - Part 21-1: Measurement and assessment of electrical characteristics - Wind turbines

Windenergieerzeugungsanlagen - Teil
21-1: Messung und Bewertung der
elektrischen Kennwerte -
Windenergieanlagen

Systèmes de génération d'énergie
éolienne - Partie 21-1: Mesurage et
évaluation des caractéristiques
électriques - Éoliennes

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National Foreword

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Éoliennes
(IEC 61400-21-1:2019)

Windenergieerzeugungsanlagen - Teil 21-1: Messung und
Bewertung der elektrischen Kennwerte -
Windenergieanlagen
(IEC 61400-21-1:2019)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 88/711/FDIS, future edition 1 of IEC 61400-21-1, prepared by IEC/TC 88 "Wind energy generation systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61400-21-1:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-03-24
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-06-24

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In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61400-27-1:2015 NOTE Harmonized as EN 61400-27-1:2015 (not modified)

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-3-2	2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	EN 61000-3-2	2014
IEC 61000-3-3	-	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current < 16 A per phase and not subject to conditional connection	EN 61000-3-3	-
IEC 61000-4-7	2002	Electromagnetic compatibility (EMC) - Part 4-7: Testing and measurement techniques - General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto	EN 61000-4-7	2002
+ A1	2008		+ A1	2009
IEC 61000-4-15	2010	Electromagnetic compatibility (EMC) - Part 4-15: Testing and measurement techniques - Flickermeter - Functional and design specifications	EN 61000-4-15	2011
IEC 61000-4-30	-	Electromagnetic compatibility (EMC) - Part 4-30: Testing and measurement techniques - Power quality measurement methods	EN 61000-4-30	-
IEC 62008	-	Performance characteristics and calibration methods for digital data acquisition systems and relevant software	EN 62008	-
IEC/TR 61000-3-6	-	Electromagnetic compatibility (EMC) - Part 3-6: Limits - Assessment of emission limits for the connection of distorting installations to MV, HV and EHV power systems	-	-
IEC/TR 61000-3-7:2008	-	Electromagnetic compatibility (EMC) - Part 3-7: Limits - Assessment of emission limits for the connection of fluctuating installations to MV, HV and EHV power systems	-	-
IEC/TR 61000-3-14	-	Electromagnetic compatibility (EMC) - Part 3-14: Assessment of emission limits for harmonics, interharmonics, voltage fluctuations and unbalance for the connection of disturbing installations to LV power systems	-	-
IEC/TR 61869-103	2012	Instrument transformers - The use of instrument transformers for power quality measurement	-	-



INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Wind energy generation systems –
Part 21-1: Measurement and assessment of electrical characteristics – Wind
turbines**

**Systèmes de génération d'énergie éolienne –
Partie 21-1: Mesurage et évaluation des caractéristiques électriques – Éoliennes**

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