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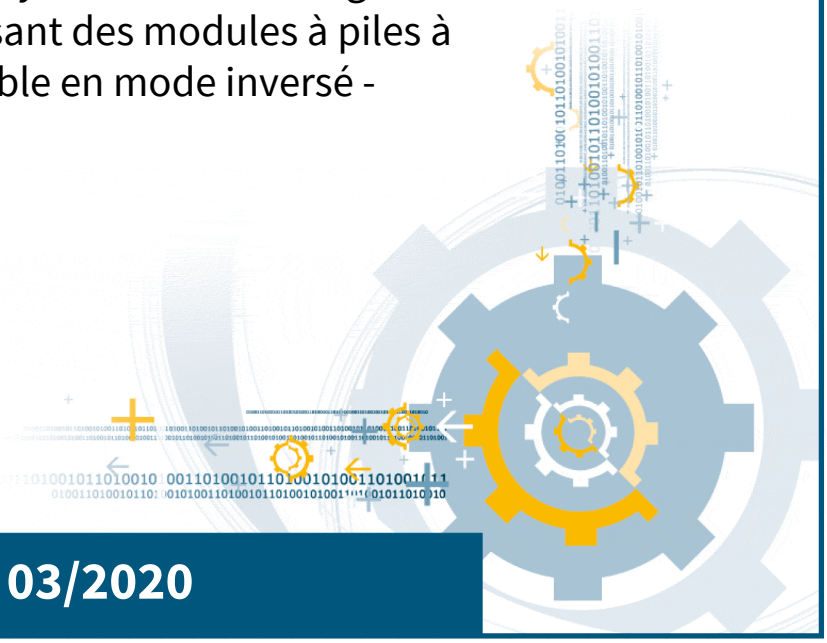
ILNAS-EN IEC 62282-8-201:2020

Fuel cell technologies - Part 8-201: Energy storage systems using fuel cell modules in reverse mode - Test procedures for the performance of

Brennstoffzellentechnologien – Teil 8-201: Energiespeichersysteme mit Brennstoffzellenmodulen im reversiblen Betrieb – Prüfverfahren zum

Technologies des piles à combustible - Partie 8-201: Systèmes de stockage de l'énergie utilisant des modules à piles à combustible en mode inversé -



03/2020

National Foreword

This European Standard EN IEC 62282-8-201:2020 was adopted as Luxembourgish Standard ILNAS-EN IEC 62282-8-201:2020.

Every interested party, which is member of an organization based in Luxembourg, can participate for FREE in the development of Luxembourgish (ILNAS), European (CEN, CENELEC) and International (ISO, IEC) standards:

- Participate in the design of standards
- Foresee future developments
- Participate in technical committee meetings

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 62282-8-201

March 2020

ICS 27.070

English Version

Fuel cell technologies - Part 8-201: Energy storage systems using fuel cell modules in reverse mode - Test procedures for the performance of power-to-power systems (IEC 62282-8-201:2020)

Technologies des piles à combustible - Partie 8-201: Systèmes de stockage de l'énergie utilisant des modules à piles à combustible en mode inversé - Procédures d'essai pour la performance des systèmes électriques à électriques (IEC 62282-8-201:2020)

Brennstoffzellentechnologien – Teil 8-201: Energiespeichersysteme mit Brennstoffzellenmodulen im reversiblen Betrieb – Prüfverfahren zum Leistungsverhalten von Power-to-Power-Systemen (IEC 62282-8-201:2020)

This European Standard was approved by CENELEC on 2020-02-14. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 European Standard 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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, 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: Rue de la Science 23, B-1040 Brussels

Ref. No. EN IEC 62282-8-201:2020 E

European foreword

The text of document 105/764/FDIS, future edition 1 of IEC 62282-8-201, prepared by IEC/TC 105 "Fuel cell technologies" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62282-8-201:2020.

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) 2020-11-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-02-14

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 62282-8-201:2020 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60079-0	NOTE	Harmonized as EN IEC 60079-0
IEC 60079-10-1	NOTE	Harmonized as EN 60079-10-1
IEC 60079-29-2	NOTE	Harmonized as EN 60079-29-2
IEC 60364 series	NOTE	Harmonized as HD 60364 series
IEC 61000-4-7	NOTE	Harmonized as EN 61000-4-7
IEC 61000-4-13	NOTE	Harmonized as EN 61000-4-13
IEC 61960-3	NOTE	Harmonized as EN 61960-3
IEC 61987-1	NOTE	Harmonized as EN 61987-1
IEC 62282-2	NOTE	Harmonized as EN 62282-2
IEC 62282-3-100	NOTE	Harmonized as EN 62282-3-100
IEC 62282-3-300	NOTE	Harmonized as EN 62282-3-300
IEC 62933-1:2018	NOTE	Harmonized as EN IEC 62933-1:2018 (not modified)
ISO 15839	NOTE	Harmonized as EN ISO 15839

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.

Publication	Year	Title	EN/HD	Year
IEC 61427-1	-	Secondary cells and batteries for renewable energy storage - General requirements and methods of test - Part 1: Photovoltaic off-grid application	EN 61427-1	-
IEC 61427-2	-	Secondary cells and batteries for renewable energy storage - General requirements and methods of test - Part 2: On-grid applications	EN 61427-2	-
IEC 62282-3-200	-	Fuel cell technologies - Part 3-200: Stationary fuel cell power systems - Performance test methods	EN 62282-3-200	-
IEC 62282-3-201	-	Fuel cell technologies - Part 3-201: Stationary fuel cell power systems - Performance test methods for small fuel cell power systems	EN 62282-3-201	-
IEC 62282-8-101	-	Fuel cell technologies - Part 8-101: Energy storage systems using fuel cell modules in reverse mode - Test procedures for the performance of solid oxide single cells and stacks, including reversible operation	-	-
IEC 62282-8-102	-	Fuel cell technologies - Part 8-102: Energy storage systems using fuel cell modules in reverse mode - Test procedures for the performance of single cells and stacks with proton exchange membrane, including reversible operation	EN IEC 62282-8-102[1]	-
IEC 62933-2-1	2017	Electrical energy storage (EES) systems - Part 2-1: Unit parameters and testing methods - General specification	EN IEC 62933-2-1	2018

[1] To be published. Stage at the time of publication: prEN IEC 62282-8-102:2018.

ISO/IEC Guide 98-3	-	Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)	-	-
ISO 3746	-	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane	EN ISO 3746	-
ISO 4064-1	-	Water meters for cold potable water and hot water - Part 1: Metrological and technical requirements	EN ISO 4064-1	-
ISO 4064-2	-	Water meters for cold potable water and hot water - Part 2: Test methods	EN ISO 4064-2	-
ISO 7888	-	Water quality - Determination of electrical conductivity	EN 27888	-
ISO 9614-1	-	Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 1: Measurement at discrete points	EN ISO 9614-1	-
ISO 11204	-	Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions applying accurate environmental corrections	EN ISO 11204	-
ISO 16111	-	Transportable gas storage devices - Hydrogen absorbed in reversible metal hydride	-	-
ISO 19880-1	-	Gaseous hydrogen - Fuelling stations - Part 1: General requirements	-	-
ISO 19881	-	Gaseous hydrogen - Land vehicle fuel containers	-	-
ISO 19882	-	Gaseous hydrogen - Thermally activated pressure relief devices for compressed hydrogen vehicle fuel containers	-	-
ISO 19884	-	Gaseous hydrogen - Cylinders and tubes for stationary storage	EN ISO 19884[2]	-
ISO 22734-1	-	Hydrogen generators using water electrolysis process - Part 1: Industrial and commercial applications	-	-
ISO 22734-2	-	Hydrogen generators using water electrolysis process - Part 2: Residential applications	-	-

[2] To be published. Stage at the time of publication: FprEN ISO 19884:2019.

IEC 62282-8-201

Edition 1.0 2020-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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