



NSAI
Standards

Irish Standard
I.S. EN 62282-6-200:2017

Fuel cell technologies - Part 6-200: Micro fuel cell power systems - Performance test methods

I.S. EN 62282-6-200:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 62282-6-200:2017 is the adopted Irish version of the European Document EN 62282-6-200:2017, Fuel cell technologies - Part 6-200: Micro fuel cell power systems - Performance test methods

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EUROPEAN STANDARD

EN 62282-6-200

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2017

ICS 27.070

Supersedes EN 62282-6-200:2012

English Version

Fuel cell technologies -
Part 6-200: Micro fuel cell power systems -
Performance test methods
(IEC 62282-6-200:2016)

Technologies des piles à combustible -
Partie 6-200: Systèmes à micropiles à combustible -
Méthodes d'essai des performances
(IEC 62282-6-200:2016)

Brennstoffzellentechnologien -
Teil 6-200: Mikro-Brennstoffzellen-Energiesysteme -
Leistungskennwerteprüfverfahren
(IEC 62282-6-200:2016)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

European foreword

The text of document 105/527/CDV, future edition 3 of IEC 62282-6-200, prepared by IEC/TC 105 "Fuel cell technologies" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62282-6-200:2017.

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) 2017-07-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-10-27

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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 60068-2-6	-	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	-
IEC 60721-3-7	-	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 7: Portable and non-stationary use	EN 60721-3-7	-
IEC/TS 62282-1	2013	Fuel cell technologies - Part 1: Terminology	-	-
ISO/IEC 17025	-	General requirements for the competence of testing and calibration laboratories	EN ISO/IEC 17025	-

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IEC 62282-6-200

Edition 3.0 2016-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fuel cell technologies –
Part 6-200: Micro fuel cell power systems – Performance test methods**

**Technologies des piles à combustible –
Partie 6-200: Systèmes à micropiles à combustible – Méthodes d’essai
des performances**





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IEC 62282-6-200

Edition 3.0 2016-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fuel cell technologies –
Part 6-200: Micro fuel cell power systems – Performance test methods**

**Technologies des piles à combustible –
Partie 6-200: Systèmes à micropiles à combustible – Méthodes d’essai
des performances**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FUEL CELL TECHNOLOGIES –

Part 6-200: Micro fuel cell power systems – Performance test methods

FOREWORD

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International Standard IEC 62282-6-200 has been prepared by IEC technical committee 105: Fuel cell technologies.

This third edition cancels and replaces the second edition, published in 2012. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) deletion of 5.3 (Fuel consumption test) as it was impractical to measure the actual consumption rate of some kinds of fuels;
- b) addition and modification of some terms and definitions.

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

CDV	Report on voting
105/527/CDV	105/545A/RVC

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62282 series, published under the general title *Fuel cell technologies*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site 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.

INTRODUCTION

With advancements in technology, the expectation or demand for the commercial introduction of fuel cells has increased dramatically in recent years. It is especially strong for micro fuel cell power systems intended for applications in laptop computers, mobile phones, personal digital assistants (PDAs), cordless home appliances, TV broadcast cameras, autonomous robots, etc. The essential component of a micro fuel cell power system is its power unit. Some micro fuel cell power systems have built-in power units and others have external power units.

FUEL CELL TECHNOLOGIES –

Part 6-200: Micro fuel cell power systems – Performance test methods

1 Scope

This part of IEC 62282 specifies test methods for the performance evaluation of micro fuel cell power systems for laptop computers, mobile phones, personal digital assistants (PDAs), cordless home appliances, TV broadcast cameras, autonomous robots, etc.

This document describes the performance test methods for power characteristics, and mechanical durability for micro fuel cell power systems with output up to 60 V DC and 240 VA. The functional arrangement of a typical example of a micro fuel cell power system, evaluated according to this document, is shown in Figure 1.

This document does not address the safety of micro fuel cell power systems.

This document does not address the interchangeability of micro fuel cell power systems.

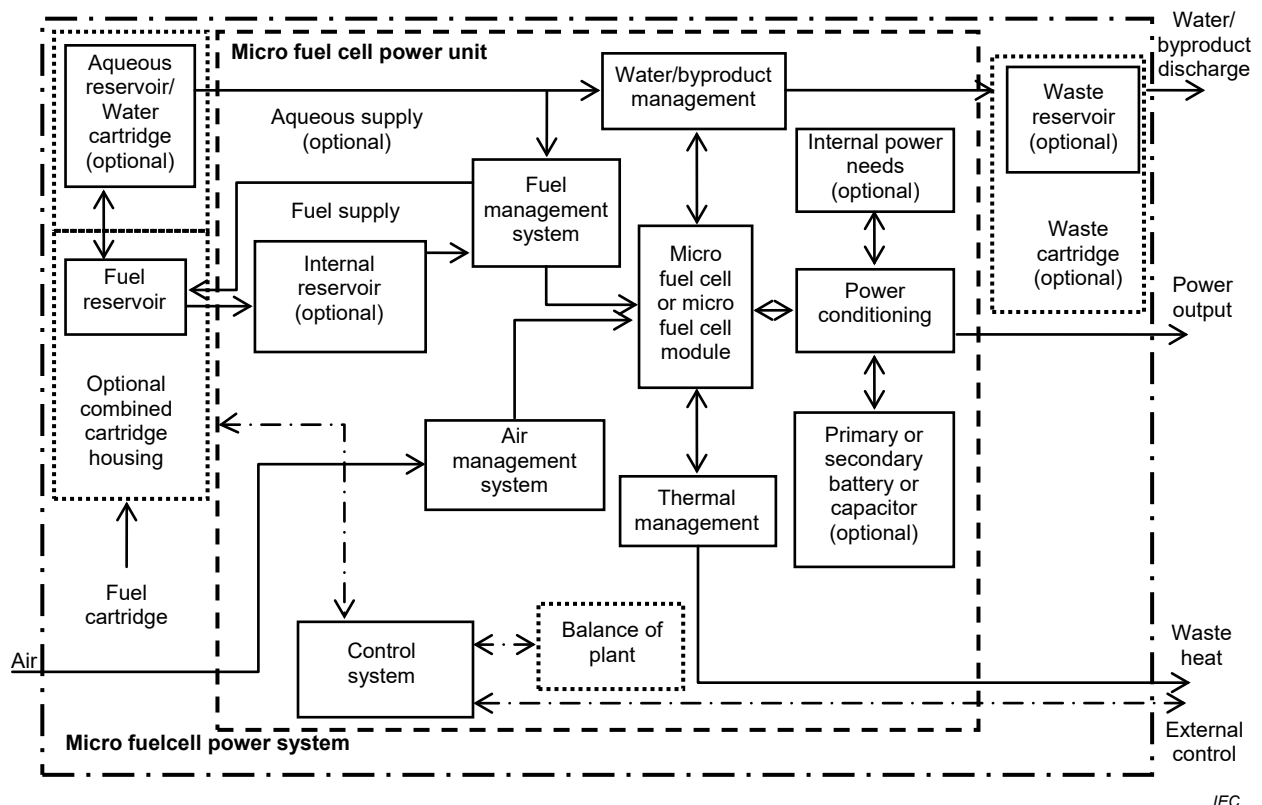


Figure 1 – Micro fuel cell power system block diagram

2 Normative references

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

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