



BSI Standards Publication

Fuel cell technologies

Part 1: Terminology

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National foreword

This Published Document is the UK implementation of IEC/TS 62282-1:2013. It supersedes DD IEC/TS 62282-1:2010 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee GEL/105, Fuel cell technologies.

A list of organizations represented on this committee can be obtained on request to its secretary.

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TECHNICAL SPECIFICATION

SPÉCIFICATION TECHNIQUE

**Fuel cell technologies –
Part 1: Terminology**

**Technologies des piles à combustible –
Partie 1: Terminologie**

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FUEL CELL TECHNOLOGIES –**Part 1: Terminology**

FOREWORD

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- the subject is still under technical development or where, for any other reason, there is the prospect but no immediate possibility of an agreement on an International Standard.

Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC 62282-1, which is a technical specification, has been prepared by IEC technical committee 105: Fuel cell technologies.

This third edition cancels and replaces the second edition, published in 2010. This third edition constitutes a technical revision.

The first edition of IEC/TS 62282-1:2005 was intended as a resource for the working groups of TC 105 and users of the TC 105 standards series; therefore, it only included terms and definitions used in the other IEC 62282 standards to provide consistency among those documents.

This third edition, as was the second edition, is a general fuel cell glossary, including all terms unique to fuel cell technologies; it has:

- a) added four new terms; 3.20, 3.43.1, 3.58 and 3.86.2;
- b) made editorial changes to thirty terms; 3.1, 3.4.2.3, 3.4.4, 3.14, 3.28, 3.33.1, 3.41.1, 3.42.2, 3.42.3, 3.45, 3.48, 3.49, 3.52, 3.57, 3.66, 3.67, 3.69.2, 3.77.6, 3.82.2, 3.83, 3.84, 3.86.3, 3.86.4, 3.90, 3.94, 3.100, 3.108.4, 3.110.1, 3.110.4 and 3.115.5; and
- c) removed the term "heat rate".

The text of this technical specification is based on the following documents:

Enquiry draft	Report on voting
105/450/DTS	105/471/RVC

Full information on the voting for the approval of this technical specification 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 of IEC 62282 series, published under the general title *Full 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;

- transformed into an International standard,
- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

FUEL CELL TECHNOLOGIES –

Part 1: Terminology

1 Scope

This part of IEC 62282 provides uniform terminology in the forms of diagrams, definitions and equations related to fuel cell technologies in all applications including but not limited to stationary power, transportation, portable power and micro power applications.

Not found here are words and phrases, which can be found in standard dictionaries, engineering references or the IEC 60050 series.

NOTE The first edition of IEC 62282 was intended as a resource for the working groups and users of the IEC 62282 series of fuel cell standards. This third edition, as well as the second edition, has been expanded into a general fuel cell glossary.

2 Diagrams of generalized fuel cell systems

2.1 Diagrams

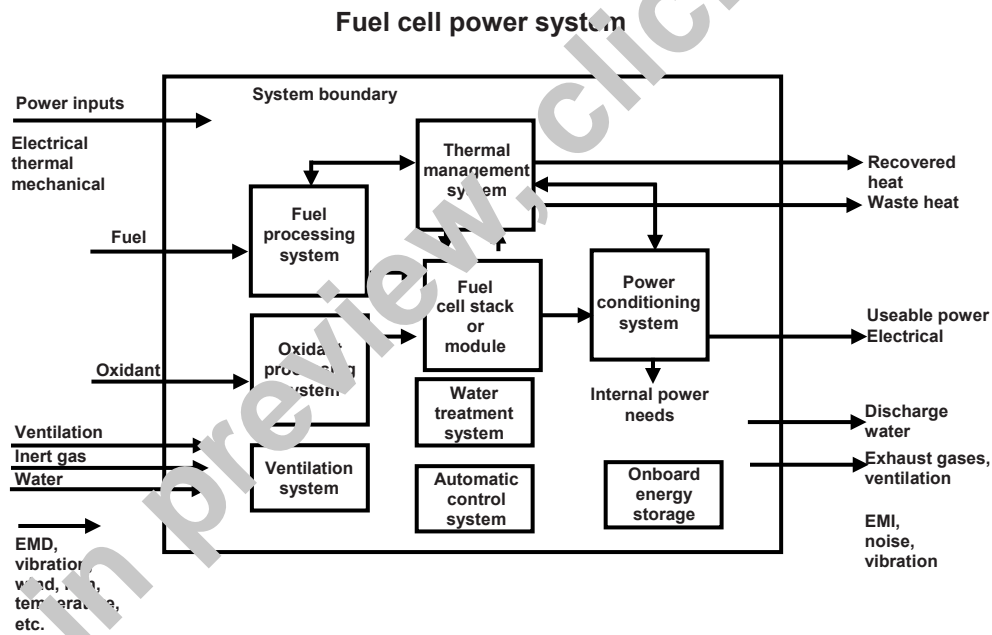


Figure 1 – Stationary fuel cell power systems (3.49.3)