

<b>STN</b>	<b>Technológia palivových článkov Časť 6-400: Výkonové systémy palivových mikročlánkov Zlúčiteľnosť výkonov a údajov</b>	<b>STN EN IEC 62282-6-400</b>  36 4512
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Fuel cell technologies - Part 6-400: Micro fuel cell power systems - Power and data interchangeability

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/19

Obsahuje: EN IEC 62282-6-400:2019, IEC 62282-6-400:2019

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EUROPEAN STANDARD

**EN IEC 62282-6-400**

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July 2019

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**Fuel cell technologies - Part 6-400: Micro fuel cell power systems - Power and data interchangeability  
(IEC 62282-6-400:2019)**

Technologies des piles à combustible - Partie 6-400:  
Systèmes à micropiles à combustible - Interchangeabilité  
de la puissance et des données  
(IEC 62282-6-400:2019)

Brennstoffzellentechnologien - Teil 6-400: Mikro-  
Brennstoffzellen-Energiesysteme - Austauschbarkeit von  
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**EN IEC 62282-6-400:2019 (E)****European foreword**

The text of document 105/721/FDIS, future edition 1 of IEC 62282-6-400, prepared by IEC/TC 105 "Fuel cell technologies" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62282-6-400:2019.

The following dates are fixed:

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IEC 62684	NOTE	Harmonized as EN IEC 62684
IEC 62282-6-100	NOTE	Harmonized as EN 62282-6-100
IEC 62282-6-200	NOTE	Harmonized as EN 62282-6-200
IEC 62680-2-2:2015	NOTE	Harmonized as EN 62680-2-2:2015 (not modified)

## Annex ZA (normative)

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC/TS 62282-1	-	Fuel cell technologies - Part 1: Terminology	-	-



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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Fuel cell technologies –  
Part 6-400: Micro fuel cell power systems – Power and data interchangeability**

**Technologies des piles à combustible –  
Partie 6-400: Systèmes à micropiles à combustible – Interchangeabilité de la  
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**FUEL CELL TECHNOLOGIES –****Part 6-400: Micro fuel cell power systems –  
Power and data interchangeability**

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The text of this International Standard is based on the following documents:

FDIS	Report on voting
105/721/FDIS	105/724/RVD

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

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

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## FUEL CELL TECHNOLOGIES –

### Part 6-400: Micro fuel cell power systems – Power and data interchangeability

#### 1 Scope

This part of IEC 62282 covers the interchangeability of power and data between micro fuel cell power systems and electronic devices to provide the micro fuel cell power system compatibility for a variety of electronic devices while maintaining the safety and performance of the micro fuel cell system. For that purpose, this document covers power interfaces and their connector configuration. The power management circuitry and power sharing methodology are also provided.

This document also covers the data communication protocol and its data specification. Operation modes and alert conditions are also provided for the means to comply with the power control requirements of the electronic device.

A micro fuel cell power system and micro fuel cell power unit block diagram is shown in Figure 1. Micro fuel cell power systems and micro fuel cell power units are defined as devices that are wearable or easily carried by hand, providing DC outputs that do not exceed 60 V DC and power outputs that do not exceed 240 VA. This document covers the power and data interfaces between the micro fuel cell power unit and electronic device.

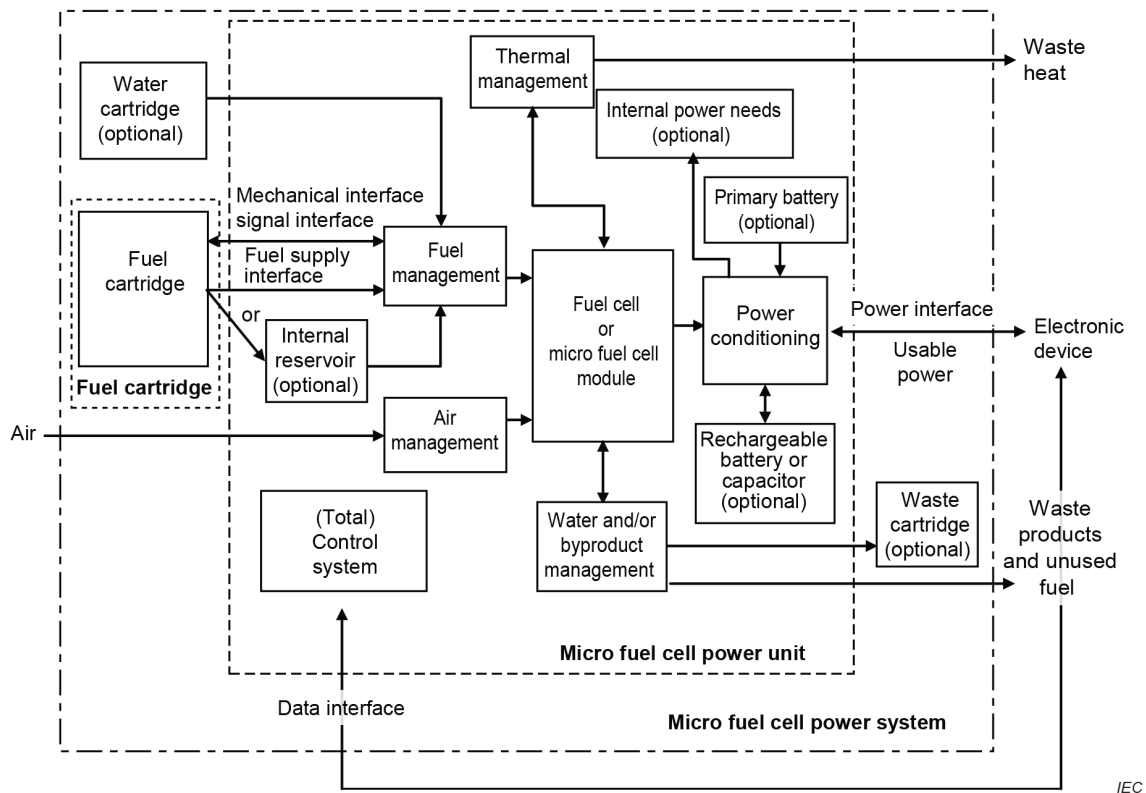


Figure 1 – Micro fuel cell power system and micro fuel cell power unit block diagram

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IEC TS 62282-1, *Fuel cell technologies – Part 1: Terminology*

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