



SLOVENSKI STANDARD SIST EN IEC 62932-2-1:2021

01-februar-2021

**Energijski sistemi pretočnih baterij za vgrajeno opremo - 2-2. del: Preskušanje
splošnih zahtev in preskusnih metod**

Flow Battery Energy Systems for Stationary applications - Part 2-2: Performance general
requirements and test methods

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EUROPEAN STANDARD
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English Version

**Flow battery energy systems for stationary applications - Part 2-1: Performance general requirements and test methods
(IEC 62932-2-1:2020)**

Systèmes de production d'énergie de batteries
d'accumulateurs à circulation d'électrolyte pour applications
stationnaires - Partie 2-1: Exigences générales de
performances et méthodes d'essai
(IEC 62932-2-1:2020)

Flussbatterie-Energiesysteme für stationäre Anwendungen
- Teil 2-1: Allgemeine Leistungsanforderungen und
Prüfverfahren
(IEC 62932-2-1:2020)

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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

EN IEC 62932-2-1:2020 (E)**European foreword**

The text of document 21/1028/FDIS, future edition 1 of IEC 62932-2-1, prepared by IEC/TC 21 "Secondary cells and batteries" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62932-2-1:2020.

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) 2020-12-24
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-03-24

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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 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 62932-1	-	Flow battery energy systems for stationary applications - Part 1: Terminology and general aspects	-	-
IEC 62932-2-2	-	Flow battery energy systems for stationary applications - Part 2-2 Safety requirements	-	-

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INTERNATIONAL STANDARD

**Flow battery energy systems for stationary applications –
Part 2-1: Performance general requirements and test methods**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FLOW BATTERY ENERGY SYSTEMS FOR STATIONARY APPLICATIONS –**Part 2-1: Performance general requirements and test methods****FOREWORD**

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International Standard IEC 62932-2-1 has been prepared by IEC technical committee 21: Secondary cells and batteries, in collaboration with IEC technical committee 105: Fuel cell technologies.

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

FDIS	Report on voting
21/1028/FDIS	21/1036/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.

A list of all parts in the IEC 62932 series, published under the general title *Flow battery energy systems for stationary applications*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
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INTRODUCTION

A flow battery system (FBS) can be utilized as a main part of a flow battery energy system (FBES). Such an FBES can consist of:

- a flow battery system,
- a power conversion system,
- other equipment and surroundings.

The FBES is connected to the external power input or output via a point of connection (POC).

This document includes the domain of the FBES, as shown in Figure 1. Auxiliary energy to the battery management system (BMS), battery support system (BSS), and power conversion system (PCS) may be supplied by one of the following:

- direct connection to the external power source;
- the internal power source of the FBES or FBS itself.

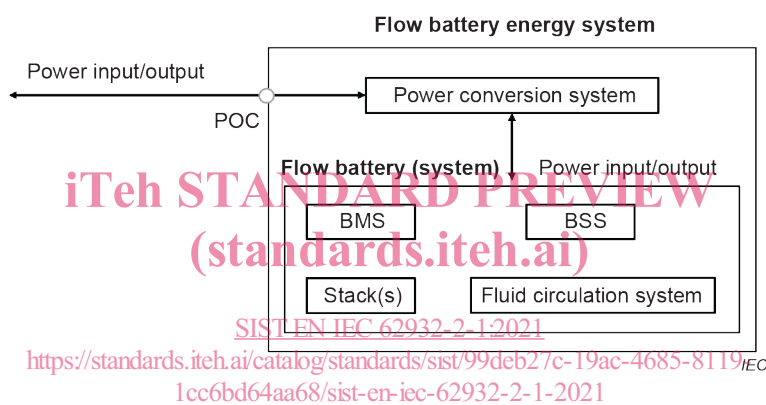


Figure 1 – Flow battery energy system