

Irish Standard I.S. EN IEC 62932-1:2020

Flow battery energy systems for stationary applications - Part 1: Terminology and general aspects

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National Foreword

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EUROPEAN STANDARD

EN IEC 62932-1

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April 2020

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English Version

Flow battery energy systems for stationary applications - Part 1: Terminology and general aspects (IEC 62932-1:2020)

Systèmes de production d'énergie de batteries d'accumulateurs à circulation d'électrolyte pour applications stationnaires - Partie 1: Terminologie et aspects généraux (IEC 62932-1:2020) Flussbatterie-Systeme für stationäre Anwendungen - Teil 1: Terminologie und allgemeine Aspekte (IEC 62932-1:2020)

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EN IEC 62932-1:2020 (E)

European foreword

The text of document 21/1027/FDIS, future edition 1 of IEC 62932-1, prepared by IEC/TC 21 "Secondary cells and batteries" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62932-1:2020.

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IEC 62932-1

Edition 1.0 2020-02

INTERNATIONAL STANDARD



Flow battery energy systems for stationary applications – Part 1: Terminology and general aspects





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INTERNATIONAL STANDARD



Flow battery energy systems for stationary applications – Part 1: Terminology and general aspects

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CONTENTS

FOREWORD				
1 Scope	.5			
2 Normative references	.5			
3 Terms, definitions and abbreviated terms	.5			
3.1 Terms and definitions	.5			
3.2 Abbreviated terms1	12			
4 Descriptive overview of the flow battery12				
4.1 Diagram of a flow battery system (FBS)1	12			
4.2 Component descriptions and the boundaries1	13			
4.3 Diagram of a flow battery energy system (FBES)1	13			
4.4 Component descriptions and the boundaries of FBES1	14			
Annex A (informative) Components of the flow battery energy system				
A.1 General1	15			
A.2 Stacks – Revised description1	15			
A.3 Fluid system1	15			
Annex B (informative) Types of chemistries16				
Figure 1 – Flow battery system (FBS)1	13			
Figure 2 – Flow battery energy system (FBES)				
Table B.1 – Example chemistries of flow batteries 16				
Table B.2 – Example chemistries of hybrid flow batteries 16				

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- 3 -

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FLOW BATTERY ENERGY SYSTEMS FOR STATIONARY APPLICATIONS -

Part 1: Terminology and general aspects

FOREWORD

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FDIS	Report on voting
21/1027/FDIS	21/1037/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.

– 4 –

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FLOW BATTERY ENERGY SYSTEMS FOR STATIONARY APPLICATIONS -

Part 1: Terminology and general aspects

1 Scope

This part of IEC 62932 relates to flow battery energy systems (FBES) used in electrical energy storage (EES) applications and provides the main terminology and general aspects of this technology, including terms necessary for the definition of unit parameters, test methods, safety and environmental issues.

2 Normative references

There are no normative references in this document.

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1.1

ambient temperature

environmental temperature around a flow battery energy system

3.1.2

auxiliary energy

energy consumed by all the auxiliary equipment and components of a flow battery and of a flow battery energy system

Note 1 to entry: The equipment and components include, but are not limited to, battery management system, battery support system, fluid circulation system.

3.1.3 battery management system BMS

electronic system associated with a flow battery energy system which monitors and/or manages its state, calculates secondary data, reports that data and/or controls its environment to influence the flow battery energy system's performance and/or service life

Note 1 to entry: The function of the battery management system can be fully or partially assigned to the battery pack and/or to equipment that uses flow battery energy store systems.

[SOURCE: IEC 61427-2:2015, 3.8, modified – admitted terms "battery management unit" and "BMU" omitted, "battery" replaced by "flow battery energy system", Notes 2 to 4 deleted.]



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