

# INTERNATIONAL STANDARD



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



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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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

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## CONTENTS

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

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**FLOW BATTERY ENERGY SYSTEMS FOR STATIONARY APPLICATIONS –****Part 1: Terminology and general aspects**

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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.

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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.]