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BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

Draft Indian Standard

FLOW BATTERY ENERGY SYSTEMS FOR STATIONARY APPLICATIONS - PART 2-2: SAFETY REQUIREMENTS

(ICS 29.220.99)

Secondary Cells and Batteries Sectional Committee ETD 11

Last Date of Comments: 03 September 2024

NATIONAL FOREWORD

This draft Indian Standard (Part 2 / Sec 2) which is identical with IEC 62932-2-2: 2020 'Flow battery energy systems for stationary applications - Part 2-2: Safety requirements' issued by the International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the Secondary Cells and Batteries Sectional Committee and approval of the Electrotechnical Division Council.

The text of the IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appears referring to this standard, they should be read as 'Indian Standard'.
b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to International Standards for which Indian Standards also exists. The corresponding Indian Standards, which are to be substituted, are listed below along with their degree of equivalence for the editions indicated:

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
IEC 62485-2:2010, Safety requirements for secondary batteries and battery installations – Part 2: Stationary batteries	IS 16894 (Part 2) : 2018, Safety requirements for secondary batteries and battery installations: Part 2 stationary batteries	Identical With IEC 62485-2: 2010
ISO 7010, Graphical symbols – Safety colours and safety signs – Registered safety signs	IS 16451 : 2023, Graphical Symbols-Safety Colours and Safety Signs-Registered Safety Signs	Identical With ISO 7010 : 2019

The technical committee has reviewed the provisions of the following international standards referred in this adopted standard and decided that they are acceptable for use in conjunction with this standard.

International Standard	*Title*
IEC 60079-10-1,	Explosive atmospheres – Part 10-1: Classification of areas – Explosive gas atmospheres
IEC 60364-4-41,	Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock
IEC 60364-4-43,	Low-voltage electrical installations – Part 4-43: Protection for safety – Protection against overcurrent
IEC 60364-6,	Low voltage electrical installations – Part 6: Verification
IEC 61936-1,	Power installations exceeding 1 kV a.c. – Part 1: Common rules
IEC 62932-1,	Flow battery energy systems for stationary applications – Part 1: Terminology and general aspects

Only English language text has been retained while adopting it in this Indian Standard, and as such the page numbers given here are not the same as in the International Standard.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test, shall be rounded off in accordance with IS 2: 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Note: The technical content of the document is not available on website. For details, please refer the corresponding IEC 62932-2-2: 2020 or kindly contact:

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