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Interested committees:

Title: BS IEC 60092-305 Electrical installations in ships
Part 305: Equipment - Accumulator (storage) batteries

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



18/1950/CD

COMMITTEE DRAFT (CD)

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SUPERSEDES DOCUMENTS:
18/1886/CD, 18/1903A/CC

IEC TC 18 : ELECTRICAL INSTALLATIONS OF SHIPS AND OF MOBILE AND FIXED OFFSHORE UNITS

SECRETARIAT:
Norway

SECRETARY:
Mr Arild Røed

OF INTEREST TO THE FOLLOWING COMMITTEES:
SC 18A, TC 21, SC 21A, TC 120

HORIZONTAL FUNCTION(S):

ASPECTS CONCERNED:
Safety

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Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any local regulations or technical reasons that may exist and should be considered should this proposal proceed, recognizing that failure to address such requirements could result in the need for new or existing "In Some Countries" clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Electrical installations in ships - Part 305: Equipment - Accumulator (storage) batteries

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL INSTALLATIONS IN SHIPS –

Part 305: Accumulator (storage) batteries

FOREWORD

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IEC 6092-305 has been prepared by IEC technical committee 18: Electrical installations of ships and of mobile and fixed offshore units. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 1980, Amendment 1:1989. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Complete revised version.
- b) Implementing different battery systems

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

Draft	Report on voting
XX/XX/FDIS	XX/XX/RVD

111
112 Full information on the voting for its approval can be found in the report on voting indicated in
113 the above table.

114 The language used for the development of this International Standard is English.

115 This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in
116 accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available
117 at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are
118 described in greater detail at www.iec.ch/publications.

119 The committee has decided that the contents of this document will remain unchanged until the
120 stability date indicated on the IEC website under webstore.iec.ch in the data related to the
121 specific document. At this date, the document will be

- 122 • reconfirmed,
123 • withdrawn, or
124 • revised.

125

126

127

INTRODUCTION

128 IEC 60092 (all parts) forms a series of international standards for electrical installations in sea-
129 going ships, incorporating good practice and coordinating, as far as possible, existing rules.

130 These standards form a code of practical interpretation and amplification of the requirements
131 of the International Convention for the Safety of Life at Sea, a guide for future regulations which
132 may be prepared and a statement of practice for use by shipowners, shipbuilders and
133 appropriate organizations.

134

ELECTRICAL INSTALLATIONS IN SHIPS –

Part 305: Equipment – Accumulator (storage batteries)

1 Scope

This standard is applicable to the installation of all fixed position accumulator (storage) batteries of all types, sizes, and chemistries for use in or on ships.

This standard is not applicable to portable batteries and to primary cells.

2 Normative references

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.

IEC 31010 Risk management – Risk assessment techniques

IEC 60079-10-1 Explosive atmospheres – Part 10-1: Classification of areas - Explosive gas atmospheres

IEC 60092-101 Electrical installations in ships – Part 101: Definitions and general requirements

IEC 62619 Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications.

IEC 62620 Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for use in industrial applications.

IEC 63462-1 Maritime battery systems – Part 1: Secondary lithium cells and batteries – Safety requirements

UL 1642 Lithium batteries

3 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 Terms and definitions

3.1.1

primary cell/battery

cell or battery which is not designed to be electrically recharged