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INTERNATIONAL STANDARD

Mobile and fixed offshore units – Electrical installations – Part 6: Installation

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PRICE CODE



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MOBILE AND FIXED OFFSHORE UNITS – ELECTRICAL INSTALLATIONS –

Part 6: Installation

FOREWORD

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International Standard IEC 61892-6 has been prepared by IEC technical committee 18: Electrical installations of ships and of mobile and fixed offshore units.

This second edition cancels and replaces the first edition published in 1999. This edition constitutes a technical revision.

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

- a) clauses regarding installation of cables have been added;
- b) the clause regarding secondary cells and batteries have been modified to give requirements also to installation of valve regulated (VRLA) type batteries;
- c) an informative annex regarding testing of installation has been added.

The text of this standard is based on the following documents:

FDIS	Report on voting
18/1065/FDIS	18/1071/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 61892 series, under the general title *Mobile and fixed offshore units – Electrical installations*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

INTRODUCTION

IEC 61892 forms a series of International Standards intended to ensure safety in the design, selection, installation, maintenance and use of electrical equipment for the generation, storage, distribution and utilization of electrical energy for all purposes in offshore units which are used for the exploration or exploitation of petroleum resources.

This part of IEC 61892 also incorporates and co-ordinates, as far as possible, existing rules and forms a code of interpretation, where applicable, of the requirements laid down by the International Maritime Organization, and constitutes a guide for future regulations which may be prepared and a statement of practice for offshore unit owners, constructors and appropriate organizations.

This standard is based on equipment and practices which are in current use, but it is not intended in any way to impede development of new or improved techniques.

The ultimate aim has been to produce a set of International Standards exclusively for the offshore petroleum industry.

MOBILE AND FIXED OFFSHORE UNITS – ELECTRICAL INSTALLATIONS –

Part 6: Installation

1 Scope

This part of IEC 61892 contains provisions for electrical installation in mobile and fixed offshore units including pipeline, pumping or 'pigging' stations, compressor stations and exposed location single buoy moorings, used in the offshore petroleum industry for drilling, processing and for storage purposes.

It applies to all installations, whether permanent, temporary, transportable or hand-held, to a.c. installations up to and including 35 000 V and d.c. installations up to and including 750 V (a.c. and d.c. voltages are nominal values).

This standard does not apply to electrical installations in rooms used for medical purposes, or in tankers.

2 Normative references

The following referenced documents are indispensable for the application 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 60079-14:2002, Electrical apparatus for explosive gas atmospheres – Part 14: Electrical installations in hazardous areas (other than mines)

IEC 60447:2004, Basic and safety principles for man-machine interface – Actuating principles

IEC 60502-1:2004, Power cables with extruded insulation and their accessories for rated voltages from 1 kV ($U_{\rm m}$ = 1,2 kV) up to 30 kV ($U_{\rm m}$ = 36 kV) – Part 1: Cables for rated voltages of 1 kV ($U_{\rm m}$ =1,2 kV) up to 3 kV ($U_{\rm m}$ = 3,6 kV)

IEC 60502-2:2005, Power cables with extruded insulation and their accessories for rated voltages from 1 kV (U_m =1.2 kV) up to 30 kV (U_m = 36 kV) – Part 2: Cables for rated voltages from 6 kV (U_m = 7,2 kV) up to 30 kV (U_m = 36 kV)

IEC 60623:2001, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Vented nickel-cadmium prismatic rechargeable single cells

IEC 60825 (all parts), Safety of laser products

IEC 60896-11:2002, Stationary lead-acid batteries – Part 11: Vented types – General requirements and methods of test

IEC 61892-1, Mobile and fixed offshore units – Electrical installations – Part 1: General requirements and conditions

IEC 61892-2, Mobile and fixed offshore units – Electrical installations – Part 2: System design

IEC 61892-3, Mobile and fixed offshore units – Electrical installations – Part 3: Equipment

IEC 61892-4, Mobile and fixed offshore units – Electrical installations – Part 4: Cables

IEC 61892-7, Mobile and fixed offshore units – Electrical installations – Part 7: Hazardous areas

ISO 8468:1990, Ship's bridge layout and associated equipment – Requirements and guidelines