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Plugs, socket-outlets and ship couplers for high-voltage
shore connection systems (HVSC-systems) - Part 2:
Dimensional compatibility and interchangeability
requirements for accessories to be used by various
types of ships

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 62613-2:2018 sisaldab Euroopa standardi EN IEC 62613-2:2018 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 62613-2:2018 consists of the English text of the European standard EN IEC 62613-2:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English Version

Plugs, socket-outlets and ship couplers for high-voltage shore connection systems (HVSC-systems) - Part 2: Dimensional compatibility and interchangeability requirements for accessories to be used by various types of ships
(IEC 62613-2:2016)

Prises de courant et connecteurs de navires pour les systèmes haute tension de raccordement des navires à quai - Partie 2: Règles dimensionnelles de compatibilité et d'interchangeabilité pour les appareils destinés à être utilisés par divers types de navires
(IEC 62613-2:2016)

Stecker, Steckdosen und Schiffssteckvorrichtungen für Hochspannungs-Landanschlussysteme (HVSC-Systeme) - Teil 2: Anforderungen an die Austauschbarkeit von Steckvorrichtungen, die an verschiedenen Schiffstypen anzuwenden sind
(IEC 62613-2:2016)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

This document EN IEC 62613-2:2018 consists of the text of IEC 62613-2:2016 prepared by SC 23H "Plugs, Socket-outlets and Couplers for industrial and similar applications, and for Electric Vehicles" of IEC/TC 23 "Electrical accessories".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2019-03-05
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2021-03-05

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

Endorsement notice

The text of the International Standard IEC 62613-2:2016 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Annex ZA of EN 62613-1:2018 applies, except as follows:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
Addition:				
IEC 62613-1	2011	Plugs, socket-outlets and ship couplers for EN 62613-1 high-voltage shore connection systems (HVSC-Systems) - Part 1: General requirements		2018

CONTENTS

FOREWORD	4
INTRODUCTION	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 General	7
5 Standard ratings	7
6 Classification	7
7 Marking	7
8 Dimensions	7
9 Protection against electric shock	8
10 Provision for Earthing	8
11 Terminals and terminations	8
12 Locking devices and interlocks	8
13 Resistance to ageing of rubber and thermoplastic material	8
14 General construction	8
15 Construction of socket-outlets and ship inlets	8
16 Construction of ship connectors	8
17 Construction of plugs	8
18 Degrees of protection	8
19 Insulation resistance, dielectric withstand and partial discharge tests	8
20 Normal operation	9
21 Temperature rise	9
22 Flexible cables and their connection	9
23 Mechanical strength	9
24 Screws, current-carrying parts and connections	9
25 Resistance to heat, to fire and to tracking	9
26 Corrosion and resistance to rusting	9
27 Conditional short-circuit current withstand test	9
28 Electromagnetic compatibility	9
Annex A (normative) Standard sheets A: 7,2 kV 350A three-phase accessories with two IP0 pilot contacts	10
A.1 Socket-outlet	10
A.2 Plug top	11
A.3 Ship connector top	12
A.4 Ship inlet	13
Annex B (normative) Standard sheets B: 7,2 kV 350A three-phase accessories with two IP2X pilot contacts	14
B.1 Socket-outlet	14
B.2 Plug top	15
B.3 Ship connector top	16
B.4 Ship inlet	17

Annex C (normative) Standard sheets C: 7,2 kV 350 A three-phase accessories with three IP2X pilot contacts	18
C.1 Socket-outlet	18
C.2 Plug top	19
C.3 Ship connector top	20
C.4 Ship inlet	21
Annex D (normative) Standard sheets D: 12 kV 500 A three-phase accessories with two IP0 pilot contacts	22
D.1 Socket-outlet	22
D.2 Plug top	23
D.3 Ship connector top	24
D.4 Ship inlet	25
Annex E (normative) Standard sheets E: 12 kV 500 A three-phase accessories with two IP2X Pilot contacts	26
E.1 Socket-outlet	26
E.2 Plug top	27
E.3 Ship connector top	28
E.4 Ship inlet	29
Annex F (normative) Standard sheets F 12 kV 500 A three-phase accessories with three IP2X pilot contacts	30
F.1 Socket-outlet	30
F.2 Plug top	31
F.3 Ship connector top	32
F.4 Ship inlet	33
Annex G (normative) Standard sheets G: 12 kV 500 A three-phase accessories with two pilot contacts	34
G.1 Socket-outlet	34
G.2 Plug top	35
G.3 Ship connector top	36
G.4 Ship inlet	37
Annex H (normative) Standard sheets H: 7,2 kV 250 A single-pole (neutral) accessories	38
H.1 Socket-outlet	38
H.2 Plug top	39
H.3 Ship connector top	39
H.4 Ship inlet	40
Annex I (normative) Standard sheets I: 7,2 kV 350 A three-phase accessories with three IP0 pilot contacts	41
I.1 Socket-outlet	41
I.2 Plug top	42
I.3 Ship connector top	43
I.4 Ship inlet	44
Annex J (normative) Standard sheets J: 12 kV 500 A three-phase accessories with seven pilot contacts	45
J.1 Socket-outlet	45
J.2 Plug top	46
J.3 Ship connector top	47
J.4 Ship inlet	48

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PLUGS, SOCKET-OUTLETS AND SHIP COUPLERS FOR HIGH-VOLTAGE SHORE CONNECTION SYSTEMS (HVSC-SYSTEMS) –

Part 2: Dimensional compatibility and interchangeability requirements for accessories to be used by various types of ships

FOREWORD

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International Standard IEC 62613-2 has been prepared by subcommittee 23H: Plugs, Socket-outlets and Couplers for industrial and similar applications, and for Electric Vehicles of IEC technical committee 23: Electrical accessories.

This second edition cancels and replaces the first edition published in 2011. This edition constitutes a technical revision.

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

- a) addition of configuration I: 7,2 kV 350 A three-phase accessories with three IP0 pilot contacts;
- b) addition of configuration J: 12 kV 500 A three-phase accessories with seven pilot contacts;
- c) improvement of drawings in standard sheets and addition of missing dimensions.

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

CDV	Report on voting
23H/352/CDV	23H/362/RVC

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.

This part of IEC 62613 shall be read in conjunction with IEC 62613-1:2011.

The clauses of these particular requirements supplement or modify the corresponding clauses in Part 1. Where the text of subsequent parts indicates an "addition" to or a "replacement" of the relevant requirement, test specification or explanation of Part 1, these changes are made to the relevant text of Part 1, which then becomes part of the standard. Where no change is necessary, the words "Clause X of IEC 62613-1:2011 applies" are used. Standard sheets are in Annexes A, B, etc.

A list of all the parts in the IEC 62613 series, under the general title *Plugs, socket-outlets and ship couplers for high-voltage shore connection systems (HVSC-systems)*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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

INTRODUCTION

International Standard series IEC 62613 has been developed to address the needs in terms of plugs, socket-outlets and ship couplers (ship connectors and ship inlets), herein referred to as “accessories”, of IEC/ISO/IEEE 80005-1:2012, *Utility connections in port – Part 1: High Voltage Shore Connection (HVSC) Systems – General requirements*. The purpose of IEC/ISO/IEEE 80005-1 is to define requirements that allow compliant ships to connect to compliant high-voltage shore power supplies through standardized shore-to-ship connection accessories.

Ships that do not require connecting with standardized high-voltage shore power supplies as above may use accessories that are not covered by the standard sheets of IEC 62613-2 but they may find it impossible to connect to these shore supplies.

Other low voltage plugs, socket-outlets, connectors and inlets used for the connection of certain ship types to low-voltage shore power supplies can be found in the IEC 60309 series.

The IEC 62613 series is divided into the following parts:

- *Part 1: General requirements*, comprising clauses of a general character
- *Part 2: Dimensional compatibility and interchangeability requirements for accessories to be used by various types of ships*

These ships are described in IEC/ISO/IEEE 80005-1.