

Centrales nucleares. Sistemas de instrumentación, control y alimentación eléctrica. Requisitos para sistemas estáticos ininterrumpibles de alimentación de c.c y c.a. (Ratificada por la Asociación Española de Normalización en mayo de 2020.)

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Centrales nucleares. Sistemas de instrumentación, control y alimentación eléctrica. Requisitos para sistemas estáticos ininterrumpibles de alimentación de c.c y c.a. (Ratificada por la Asociación Española de Normalización en mayo de 2020.)

*Nuclear power plants - Instrumentation, control and electrical power systems - Requirements for static uninterruptible DC and AC power supply systems (Endorsed by Asociación Española de Normalización in May of 2020.)*

*Centrales nucléaire de puissance - Systèmes d'instrumentation, de contrôle-commande et d'alimentation électrique - Exigences pour les systèmes d'alimentation en courant alternatif et en courant continu statiques sans interruption (Entérinée par l'Asociación Española de Normalización en mai 2020.)*

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EUROPEAN STANDARD

**EN IEC 61225**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2020

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English Version

**Nuclear power plants - Instrumentation, control and electrical power systems - Requirements for static uninterruptible DC and AC power supply systems  
(IEC 61225:2019)**

Centrales nucléaire de puissance - Systèmes d'instrumentation, de contrôle-commande et d'alimentation électrique - Exigences pour les systèmes d'alimentation en courant alternatif et en courant continu statiques sans interruption  
(IEC 61225:2019)

To be completed  
(IEC 61225:2019)

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## European foreword

This document (EN IEC 61225:2020) consists of the text of IEC 61225:2019 prepared by IEC/TC 45 "Nuclear instrumentation".

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-09-17
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IEC 60964	NOTE	Harmonized as EN IEC 60964
IEC 61000-6-2	NOTE	Harmonized as EN IEC 61000-6-2
IEC 61000-6-4	NOTE	Harmonized as EN IEC 61000-6-4
IEC 61226	NOTE	Harmonized as EN 61226
IEC 62040-3	NOTE	Harmonized as EN 62040-3
IEC 62340	NOTE	Harmonized as EN 62340

**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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60038 (mod)	-	IEC standard voltages	EN 60038	-
IEC 60146-1-1	-	Semiconductor converters - General requirements and line commutated converters - Part 1-1: Specification of basic requirements	EN 60146-1-1	-
IEC 60146-2	-	Semiconductor converters - Part 2: Self-commutated semiconductor converters including direct d.c. converters	EN 60146-2	-
IEC 60364-4-41 (mod)	-	Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock	HD 60364-4-41	-
			+A11	2017
			+A12	2019
IEC 60709	-		EN IEC 60709	-
IEC 60880	-	Nuclear power plants - Instrumentation and control systems important to safety - Software aspects for computer-based systems performing category A functions	EN 60880	-
IEC 60980	-	Recommended practices for seismic-qualification of electrical equipment of the safety system for nuclear generating stations		-
IEC 61000-1	series	Electromagnetic compatibility (EMC) - Part 1-2: General - Methodology for the achievement of functional safety of electrical and electronic systems including equipment with regard to electromagnetic phenomena	EN 61000-1	series
IEC 61508	series	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 1: General requirements (see <a href="http://www.iec.ch/functionalsafety">http://www.iec.ch/functionalsafety</a> )	EN 61508	series
IEC 61513	-	Nuclear power plants - Instrumentation and control important to safety - General requirements for systems	EN 61513	-
IEC 62003	-	Nuclear power plants - Instrumentation and-		-

**EN IEC 61225:2020 (E)**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62040	series	control important to safety - Requirements for electromagnetic compatibility testing Uninterruptible power systems (UPS) - Part 1: Safety requirements	EN IEC 62040	series
IEC 62138	-	Nuclear power plants - Instrumentation and control systems important to safety - Software aspects for computer-based systems performing category B or C functions	+prAA EN IEC 62138	-
IEC 62566	-	Nuclear power plants - Instrumentation and control important to safety - Development of HDL-programmed integrated circuits for systems performing category A functions	EN 62566	-
IEC/IEEE 323	60780--		EN 60780-323	-



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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Nuclear power plants – Instrumentation, control and electrical power systems –  
Requirements for static uninterruptible DC and AC power supply systems**

**Centrales nucleares de potencia – Sistemas d'instrumentación, de control-  
comando y d'alimentación eléctrica – Exigencias para los sistemas  
d'alimentación en corriente alterna y en corriente continua estática sin  
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