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ILNAS-EN IEC 62040-3:2021

Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements

Unterbrechungsfreie
Stromversorgungssysteme (USV) - Teil 3:
Methoden zum Festlegen der Leistungs-
und Prüfungsanforderungen

Alimentations sans interruption (ASI) -
Partie 3: Méthode de spécification des
performances et exigences d'essai

05/2021



National Foreword

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Alimentations sans interruption (ASI) - Partie 3: Méthode de
spécification des performances et exigences d'essai
(IEC 62040-3:2021)

Unterbrechungsfreie Stromversorgungssysteme (USV) -
Teil 3: Methoden zum Festlegen der Leistungs- und
Prüfungsanforderungen
(IEC 62040-3:2021)

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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

The text of document 22H/267/FDIS, future edition 3 of IEC 62040-3, prepared by SC 22H "Uninterruptible power systems (UPS)" of IEC/TC 22 "Power electronic systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62040-3:2021.

The following dates are fixed:

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-05-26

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60034-22	NOTE	Harmonized as EN 60034-22
IEC 60068-1:2013	NOTE	Harmonized as EN 60068-1:2014 (not modified)
IEC 60068-2 (series)	NOTE	Harmonized as EN IEC 60068-2 (series)
IEC 60068-3-3:2019	NOTE	Harmonized as EN IEC 60068-3-3:2019 (not modified)
IEC 60196	NOTE	Harmonized as EN 60196
IEC 60896-21:2004	NOTE	Harmonized as EN 60896-21:2004 (not modified)
IEC 60898-1:2015	NOTE	Harmonized as EN 60898-1:2019 (modified)
IEC 60947-3	NOTE	Harmonized as EN IEC 60947-3
IEC 60947-6-1	NOTE	Harmonized as EN 60947-6-1
IEC 61000-2-4:2002	NOTE	Harmonized as EN 61000-2-4:2002 (not modified)
IEC 61000-4-30	NOTE	Harmonized as EN 61000-4-30
IEC 61508 (series)	NOTE	Harmonized as EN 61508 (series)
IEC 62040-4	NOTE	Harmonized as EN 62040-4
IEC 62040-5-3	NOTE	Harmonized as EN 62040-5-3
IEC 62310-3	NOTE	Harmonized as EN 62310-3
IEC 62485-2:2010	NOTE	Harmonized as EN IEC 62485-2:2018 (not modified)
IEC 88528-11:2004	NOTE	Harmonized as EN 88528-11:2004 (not modified)

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60038 (mod)	2009	IEC standard voltages	EN 60038	2011
IEC 60068-2-1	2007	Environmental testing - Part 2-1: Tests - Test A: Cold	EN 60068-2-1	2007
IEC 60068-2-2	2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2	2007
IEC 60068-2-27	2008	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	EN 60068-2-27	2009
IEC 60068-2-78	2012	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	2013
IEC 60146-1-1	2009	Semiconductor converters - General requirements and line commutated converters - Part 1-1: Specification of basic requirements	EN 60146-1-1	2010
IEC 60146-2	1999	Semiconductor converters - Part 2: Self-commutated semiconductor converters including direct d.c. converters	EN 60146-2	2000
IEC 60364-1	-	Low-voltage electrical installations - Part 1: Fundamental principles, assessment of general characteristics, definitions	HD 60364-1	-
IEC 60364-5-52	-	Low-voltage electrical installations - Part 5-52: Selection and erection of electrical equipment - Wiring systems	HD 60364-5-52	-
IEC 60664-1	2020	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	EN IEC 60664-1	2020
IEC/TR 60721-4-3	2001	Classification of environmental conditions - Part 4-3: Guidance for the correlation and transformation of environmental condition classes of IEC 60721-3 to the environmental tests of IEC 60068 - Stationary use at weatherprotected locations	-	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
+ A1	2003		-	-
IEC 61000-2-2	2002	Electromagnetic compatibility (EMC) - Part 2-2: Environment - Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems	EN 61000-2-2	2002
+ A1	2017		+ A1	2017
+ A2	2018		+ A2	2019
IEC 61000-3-2	2018	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	EN IEC 61000-3-2	2019
IEC/TS 61000-3-4	1998	Electromagnetic compatibility (EMC) - Part 3-4: Limits - Limitation of emission of harmonic currents in low-voltage power supply systems for equipment with rated current greater than 16 A	-	-
IEC 61000-3-12	2011	Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase	EN 61000-3-12	2011
IEC 62040-1	2017	Uninterruptible power systems (UPS) - Part 1: Safety requirements	EN IEC 62040-1	2019
-	-		+ A11	2021
IEC 62040-2	2016	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements	EN IEC 62040-2	2018
ISO 3744	2010	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane	EN ISO 3744	2010
ISO 3746	2010	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane	EN ISO 3746	2010
ISO 4180	2019	Packaging - Complete, filled transport packages - General rules for the compilation of performance test schedules	EN ISO 4180	2019



INTERNATIONAL STANDARD



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