SLOVENSKI STANDARD
oSIST prEN IEC 62040-1:2025

01-september-2025

Sistemi z neprekinjenim napajanjem (UPS) - 1. del: Varnostne zahteve

Uninterruptible power systems (UPS) - Part 1: Safety requirements

Unterbrechungsfreie Stromversorgungssysteme (USV) - Teil 1: Sicherheitsanforderungen

Alimentations sans interruption (ASI) - Partie 1: Exigences de sécurité

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ICS:

29.200	Usmerniki. Pretvorniki. Stabilizirano električno napajanje	Rectifiers. Convertors. Stabilized power supply

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22H/338/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER: **IEC 62040-1 ED3**	
DATE OF CIRCULATION: **2025-07-11**	CLOSING DATE FOR VOTING: **2025-10-03**
SUPERSEDES DOCUMENTS: **22H/329/CD, 22H/337A/CC**	

IEC SC 22H : UNINTERRUPTIBLE POWER SYSTEMS (UPS)	
SECRETARIAT: France	SECRETARY: Mr Miao-Xin WANG
OF INTEREST TO THE FOLLOWING COMMITTEES: TC 22,SC 22E,SC 22G,SC 121B	HORIZONTAL FUNCTION(S):
ASPECTS CONCERNED: Safety	
☒ SUBMITTED FOR CENELEC PARALLEL VOTING **Attention IEC-CENELEC parallel voting** The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:

Uninterruptible power systems (UPS) - Part 1: Safety requirements

PROPOSED STABILITY DATE: 2026

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123 **Part 1: Safety requirements**

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157 IEC 62040-1 has been prepared by subcommittee 22H: Uninterruptible power systems (UPS), of
158 IEC technical committee 22: Power electronic systems and equipment.

159 This third edition cancels and replaces the second edition published in 2017, Amendment 1:2021
160 and Amendment 2:2022. This edition constitutes a technical revision.

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

162 a) the reference document has been changed from IEC 62477-1:2012 to IEC 62477-1:2022;

163 b) clauses 4.4.7.1.7, 4.4.7.2.2, 4.4.7.7, 4.6.5,4.7, 4.8.101, 4.10 and 4.11.101 in Edition 2
164 considered in IEC 62477-1:2022;

165 c) protective bonding has been reinstated from Edition 1 in 4.4.4.2.101;

166 d) AC input current updated in 4.3.101;