



**SLOVENSKI STANDARD**  
**SIST EN 62477-1:2012/A12:2021**

**01-julij-2021**

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**Varnostne zahteve za močnostno elektroniko pretvorniških sistemov in opreme -  
1. del: Splošno**

Safety requirements for power electronic converter systems and equipment - Part 1:  
General

Sicherheitsanforderungen an Leistungshalbleiter-Umrichtersysteme und -betriebsmittel -  
Teil 1: Allgemeines

Exigences de sécurité applicables aux systèmes et matériels électroniques de  
conversion de puissance - Partie 1: Généralités

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**Ta slovenski standard je istoveten z: EN 62477-1:2012/A12:2021**

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**ICS:**

29.200

Usmerniki. Pretvorniki.  
Stabilizirano električno  
napajanje

Rectifiers. Convertors.  
Stabilized power supply

**SIST EN 62477-1:2012/A12:2021**

**en,fr,de**

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EUROPEAN STANDARD

**EN 62477-1:2012/A12**

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2021

ICS 29.200

English Version

## Safety requirements for power electronic converter systems and equipment - Part 1: General

Exigences de sécurité applicables aux systèmes et matériels électroniques de conversion de puissance - Partie 1: Généralités

Sicherheitsanforderungen an Leistungshalbleiter-Umrichtersysteme und -betriebsmittel - Teil 1: Allgemeines

This amendment A12 modifies the European Standard EN 62477-1:2012; it was approved by CENELEC on 2020-11-17. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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**

EN 62477-1:2012/A12:2021 (E)

## European foreword

This document (EN 62477-1:2012/A12:2021) has been prepared by CLC/TC 22X "Power electronics".

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) 2021-08-05
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2023-11-17

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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, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

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## Annex ZZ (informative)

### Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European standard has been prepared under a Commission's standardisation request relating to harmonised standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

**Table ZZ.1 – Correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]**

Safety objectives of Directive 2014/35/EU (Annex I)	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
<b>1. General:</b>	Ref. of all Clauses from the CLC/TC 22X Committee standard, that are linked to the Safety Objectives	Remarks & Notes from CLC/TC 22X Secretariat
1 a) the essential characteristics, the recognition and observance of which will ensure that electrical equipment will be used safely and in applications for which it was made, shall be marked on the electrical equipment, or, if this is not possible, on an accompanying document	6	
1 b) the electrical equipment, together with its component parts, shall be made in such a way as to ensure that it can be safely and properly assembled and connected;	4.3, 4.8, 4.11 6.3, 6.4, 6.5	
1 c) the electrical equipment shall be so designed and manufactured as to ensure that protection against the hazards set out in points 2 and 3 is assured, providing that the equipment is used in applications for which it was made and is adequately maintained.	1, 2, 3 6.2, 6.4, 6.5	refer to 2a to 2d and 3a to 3c in this table