

Ehitiste elektripaigaldised. Osa 7-712: Nõuded eripaigaldistele ja -paikadele. Solaar-fotoelektrilised toiteallikad

Electrical installations of buildings - Part 7-712:
Requirements for special installations or locations –
Solar photovoltaic (PV) power supply systems

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-HD 60364-7-712:2006 sisaldab Euroopa standardi HD 60364-7-712:2005+AC:2006 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 05.08.2005 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 14.07.2005.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-HD 60364-7-712:2006 consists of the English text of the European standard HD 60364-7-712:2005+AC:2006.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 05.08.2005 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 14.07.2005.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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Võtmesõnad: ehitis, elektripaigaldis, elektrivarustus, fotoelektriline, solaarne

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English version

Electrical installations of buildings
Part 7-712: Requirements for special installations or locations –
Solar photovoltaic (PV) power supply systems
(IEC 60364-7-712:2002)

Installations électriques des bâtiments
Partie 7-712: Règles pour les installations
et emplacements spéciaux –
Alimentations photovoltaïques solaires
(PV)
(CEI 60364-7-712:2002)

Elektrische Anlagen von Gebäuden
Teil 7-712: Anforderungen für
Betriebsstätten, Räume und Anlagen
besonderer Art –
Solar-Photovoltaik(PV)-
Versorgungssysteme
(IEC 60364-7-712:2002)

This Harmonization Document was approved by CENELEC on 2005-03-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning such national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

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CENELEC

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

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Foreword

The text of the International Standard IEC 60364-7-712:2002, prepared by IEC TC 64, Electrical installations and protection against electric shock, together with the common modifications prepared by SC 64A, Protection against electric shock, of Technical Committee CENELEC TC 64, Electrical installations of buildings, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as HD 60364-7-712 on 2005-03-01.

The following dates were fixed:

- latest date by which the existence of the HD has to be announced at national level (doa) 2005-09-01
- latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement (dop) 2006-03-01
- latest date by which the national standards conflicting with the HD have to be withdrawn (dow) 2008-03-01

In this Harmonization Document editorial modifications to the International Standard are indicated by a vertical line in the left margin of the text.

Annexes ZA and ZB have been added by CENELEC.

The contents of the corrigendum of April 2006 have been included in this copy.

Preview generated by EVS

712 Solar photovoltaic (PV) power supply systems

NOTE The abbreviation "PV" is used for "solar photovoltaic".

712.1 Scope

The particular requirements of this section apply to the electrical installations of PV power supply systems including systems with AC modules.

NOTE 1 Standards for PV equipment are being prepared by IEC TC 82.

NOTE 2 Requirements for PV power supply systems which are intended for stand-alone operation are under consideration.

712.2 Normative references

See annex ZA.

712.3 Definitions

(See also Figures 712.1 and 712.2).

For the purpose of this part, the following definitions apply. For other general definitions, see IEC 60050-826.

712.3.1

PV cell

basic PV device which can generate electricity when exposed to light such as solar radiation

712.3.2

PV module

smallest completely environmentally protected assembly of interconnected PV cells

712.3.3

PV string

circuit in which PV modules are connected in series, in order for a PV array to generate the required output voltage

712.3.4

PV array

mechanically and electrically integrated assembly of PV modules, and other necessary components, to form a DC power supply unit

712.3.5

PV array junction box

enclosure where all PV strings of any PV array are electrically connected and where protection devices can be located if necessary

712.3.6

PV generator

assembly of PV arrays

712.3.7

PV generator junction box

enclosure where all PV arrays are electrically connected and where protection devices can be located if necessary