

INTERNATIONAL STANDARD

IEC 60364-7-712

First edition
2002-05

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

(<https://standards.iteh.ai>)
Document Preview

[IEC 60364-7-712:2002](https://standards.iteh.ai/catalog/standards/iec/60364-7-712:2002)

<https://standards.iteh.ai/catalog/standards/iec/60364-7-712:2002>

*This **English-language** version is derived from the original **bilingual** publication by leaving out all French-language pages. Missing page numbers correspond to the French-language pages.*



Reference number
IEC 60364-7-712:2002(E)

Publication numbering

As from 1 January 1997 all IEC publications are issued with a designation in the 60000 series. For example, IEC 34-1 is now referred to as IEC 60034-1.

Consolidated editions

The IEC is now publishing consolidated versions of its publications. For example, edition numbers 1.0, 1.1 and 1.2 refer, respectively, to the base publication, the base publication incorporating amendment 1 and the base publication incorporating amendments 1 and 2.

Further information on IEC publications

The technical content of IEC publications is kept under constant review by the IEC, thus ensuring that the content reflects current technology. Information relating to this publication, including its validity, is available in the IEC Catalogue of publications (see below) in addition to new editions, amendments and corrigenda. Information on the subjects under consideration and work in progress undertaken by the technical committee which has prepared this publication, as well as the list of publications issued, is also available from the following:

- **IEC Web Site** (www.iec.ch)

- **Catalogue of IEC publications**

The on-line catalogue on the IEC web site (www.iec.ch/searchpub) enables you to search by a variety of criteria including text searches, technical committees and date of publication. On-line information is also available on recently issued publications, withdrawn and replaced publications, as well as corrigenda.

- **IEC Just Published**

This summary of recently issued publications (www.iec.ch/online_news/justpub) is also available by email. Please contact the Customer Service Centre (see below) for further information.

- **Customer Service Centre**

If you have any questions regarding this publication or need further assistance, please contact the Customer Service Centre:

Email: custserv@iec.ch
Tel: +41 22 919 02 11
Fax: +41 22 919 03 00

<https://standards.iteh.ai/custserv/standards/iec-6388fb90-02ec-4db4-8a8e-6225dcd4c6b8/iec-60364-7-712-2002>

INTERNATIONAL STANDARD

IEC 60364-7-712

First edition
2002-05

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

(<https://standards.iteh.ai>)
Document Preview

<https://standards.iteh.ai/catalog/standards/iec/63b6fb90-02ec-4db4-8a8e-6225dcd4c6b8/iec-60364-7-712-2002>

<https://standards.iteh.ai/catalog/standards/iec/63b6fb90-02ec-4db4-8a8e-6225dcd4c6b8/iec-60364-7-712-2002>

© IEC 2002 Copyright - all rights reserved

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Electrotechnical Commission, 3, rue de Varembe, PO Box 131, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CONTENTS

FOREWORD.....	5
INTRODUCTION.....	7
712 Solar photovoltaic (PV) power supply systems	
712.1 Scope	9
712.2 Normative references.....	9
712.3 Definitions.....	9
712.30 Assessment of general characteristics	13
712.31 Purposes, supplies and structure	13
712.312 Types of distribution systems.....	13
712.4 Protection for safety.....	13
712.41 Protection against electric shock.....	13
712.411 Protection against both direct and indirect contact.....	15
712.413 Fault protection.....	15
712.433 Protection against overload on the DC side.....	15
712.434 Protection against short-circuit currents	15
712.444 Protection against electromagnetic interference (EMI) in buildings.....	15
712.5 Selection and erection of electrical equipment	17
712.51 Common rules.....	17
712.511 Compliance with standards	17
712.512 Operational conditions and external influences	17
712.52 Wiring systems	17
712.522 Selection and erection in relation to external influences.....	17
712.53 Isolation, switching and control.....	17
712.536 Isolation and switching.....	17
712.54 Earthing arrangements, protective conductors and protective bonding conductors.....	19

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL INSTALLATIONS OF BUILDINGS –**Part 7-712: Requirements for special installations or locations –
Solar photovoltaic (PV) power supply systems**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60364-7-712 has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock.

The text of this standard is based on the following documents:

FDIS	Report on voting
64/1229/FDIS	64/1244/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

The committee has decided that the contents of this publication will remain unchanged until 2006. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

INTRODUCTION

The requirements of this part of IEC 60364 supplement, modify or replace certain of the general requirements contained in parts 1 to 6 of IEC 60364.

The clause numbering appearing after 712 refers to the corresponding parts or clauses of IEC 60364, parts 1 to 6. Numbering of clauses does not, therefore, necessarily follow sequentially. Numbering of figures and tables takes the number of this part followed by a sequential number.

The absence of reference to a part or a clause means that the general requirements contained in parts 1 to 6 of IEC 60364 are applicable.

Withstand

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

<https://standards.iteh.ai/catalog/standards/iec/6386fb90-02ec-4db4-8a8e-6225dcd4c6b8/iec-60364-7-712-2002>