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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Low-voltage electrical installations -
Part 7-717: Requirements for special installations or locations - Mobile or transportable units

Installations électriques à basse tension -
Partie 7-717: Exigences pour les installations ou emplacements spéciaux - Unités mobiles ou transportables

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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Low-voltage electrical installations - Part 7-717: Requirements for special installations or locations - Mobile or transportable units

FOREWORD

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IEC 60364-7-717 has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock. It is an International Standard.

This third edition cancels and replaces the second edition published in 2009. This edition constitutes a technical revision.

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

a) The scope has been improved, providing more detail.
b) The content of Clause 717.41 has been updated following the publication of IEC 60364-4-41:2005/AMD1:2017.

c) Clauses concerning protection by automatic disconnection of the supply and additional protection have been added.

d) Figures have been simplified, updated or deleted.

e) Designation of SPD has been updated to use Tx SPD instead of Class x tested SPD.

The text of this International Standard is based on the following documents:

Draft	Report on voting
64/2796/FDIS	64/2817/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 60364 series, published under the general title *Low-voltage electrical installations*, can be found on the IEC website.

The reader's attention is drawn to the fact that Annex A lists all of the "in-some-country" clauses on differing practices of a less permanent nature relating to the subject of this document.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

– reconfirmed,

– withdrawn, or

– revised.

INTRODUCTION

For the purpose of this part of IEC 60364 (IEC 60364-7-717) the requirements of the general Parts 1, 4, 5, 6 and 8 of IEC 60364 apply.

The IEC 60364-7-7XX parts of IEC 60364 contain particular requirements for special installations or locations which are based on the requirements of the general parts of IEC 60364 (IEC 60364-1, IEC 60364-4, IEC 60364-5, IEC 60364-6 and IEC 60364-8). These IEC 60364-7-7XX parts are considered in conjunction with the requirements of the general parts.

The particular requirements of this part of IEC 60364 supplement, modify or replace certain of the requirements of the general parts of IEC 60364 being valid at the time of publication of this part. The absence of reference to the exclusion of a part or a clause of a general part means that the corresponding clauses of the general part are applicable (undated reference).

Requirements of other 7XX parts being relevant for installations covered by this part also apply. This part can therefore also supplement, modify or replace certain of these requirements valid at the time of publication of this part.

The clause numbering of this part follows the pattern and corresponding references of IEC 60364. The numbers following the particular number of this part are those of the corresponding parts, or clauses of the other parts of the IEC 60364 series, valid at the time of publication of this part, as indicated in the normative references of this document (dated reference).

If requirements or explanations additional to those of the other parts of the IEC 60364 series are needed, the numbering of such items appears as 717.101, 717.102, 717.103, etc.

In the case where new or amended general parts with modified numbering were published after this part was issued, the clause numbers referring to a general part in this Part 717 can no longer align with the latest edition of the general part. Dated references should be observed.

717 Mobile or transportable units

717.1 Scope

The particular requirements as specified in this part of IEC 60364 apply to electrical installations of mobile units or transportable units.

The requirements of this document are not applicable to:

– generating sets;
– pleasure craft;
– caravans and motor caravans;
– electrical circuits and equipment for automotive purposes.

717.2 Normative references

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.

IEC 60227-3, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 3: Non-sheathed cables for fixed wiring*

IEC 60228, *Conductors of insulated cables*

IEC 60332-1-2, *Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame*

IEC 60364-1:2025, *Low-voltage electrical installations - Part 1: Fundamental principles, assessment of general characteristics, and definitions*

IEC 60364-4-41:2005, *Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock*
IEC 60364-4-41:2005/AMD1:2017

IEC 60364-4-44:2024, *Low-voltage electrical installations - Part 4-44: Protection for safety - Protection against voltage disturbances and electromagnetic disturbances*

IEC 60364-5-51:2005, *Electrical installations of buildings - Part 5-51: Selection and erection of electrical equipment - Common rules*

IEC 60364-5-52:2009, *Electrical installations of buildings - Part 5-52: Selection and erection of electrical equipment - Wiring systems*

IEC 60364-5-53:2019, *Low-voltage electrical installations - Part 5-53: Selection and erection of electrical equipment - Devices for protection for safety, isolation, switching, control and monitoring*
IEC 60364-5-53:2019/AMD1:2020
IEC 60364-5-53:2019/ AMD2:2024

IEC 60364-5-54:2011, *Low-voltage electrical installations - Part 5-54: Selection and erection of electrical equipment - Earthing arrangements and protective conductors*
IEC 60364-5-54:2011/AMD1:2021

IEC 60364-5-55, *Electrical installations of buildings - Part 5-55: Selection and erection of electrical equipment - Other equipment*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 61084 (all parts), *Cable trunking systems and cable ducting systems for electrical installations*

IEC 61386 (all parts), *Conduit systems for cable management*

IEC 62262, *Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)*

717.3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

– IEC Electropedia: available at https://www.electropedia.org/
– ISO Online browsing platform: available at https://www.iso.org/obp

717.3.1
mobile unit
structure containing an electrical installation, designed for being moved by its own means

EXAMPLE Outside-broadcasting van, emergency vehicle, catering lorry.

Note 1 to entry: In this document, the term "units" is used to mean "mobile units, transportable units or both".

717.3.2
transportable unit
structure containing an electrical installation, designed for being moved by external means

EXAMPLE Containers for office, dwellings, storage.

Note 1 to entry: In this document, the term "units" is used to mean "mobile units, transportable units or both".

717.1.5 Fundamental principles

717.1.5.2 Design

717.1.5.2.2 Power supplies

717.1.5.2.2.1 Characteristics of power supplies

Add the following:

Where both a DC system and AC system are earthed, inverters and power electronic converter systems shall provide galvanic separation between the AC side and the DC side.