IEC TS 60364-7-725

Edition 1.0 2026-01

TECHNICAL SPECIFICATION

Low-voltage electrical installations -
Part 7-725: Requirements for special installations or locations - Resilient power supply system

ICS 29.020

ISBN 978-2-8327-1021-0

IEC TS 60364-7-725:2026-01(en)

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FOREWORD

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IEC TS 60364-7-725 has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock. It is a Technical Specification.

The text of this Technical Specification is based on the following documents:

Draft	Report on voting
64/2772/DTS	64/2816A/RVDTS

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 Technical Specification 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 D 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– withdrawn, or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 60364-7-725) 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 to 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 references).

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

The clause numbering of this document follows the pattern and corresponding references of IEC 60364. The numbers following the particular number of this document 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 document, as indicated in the normative references of this document (dated references).

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 725.101, 725.102, 725.103, etc. In the case where new or amended general parts with modified numbering were published after this document was issued, the clause numbers referring to a general part in this document will possibly no longer align with the latest edition of the general part. Dated references should be observed.

The clause numbers following 725 are those of the corresponding parts or clauses of IEC 60364. The absence of reference to a part or a clause means that all parts of IEC 60364 are applicable.

725 Resilient power supply system

725.1 Scope

This part of IEC 60364 provides additional requirements for the design, erection and verification of electrical installations applicable for resilient power supply systems that must be operational in a time of disaster. It specifies additional requirements for

– generating sets,

– a circuit concerning external generating sets, and

– circuits of an installation to be supplied

so as to prevent or limit the effects of a natural disaster such as

– earthquake,

– flood damage, or

– wind hazard (e.g. tropical cyclone such as hurricane, typhoon).

725.2 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 60364-1:2005, *Low-voltage electrical installations - Part 1: Fundamental principles, assessment of general characteristics, definitions*

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

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

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

IEC 60364-6, *Low-voltage electrical installations - Part 6: Verification*

Bibliography

[1] Johnson, K. et al. (2023). Global Seismic Hazard Map (v2023.1.2). Zenodo. (https://doi.org/10.5281/zenodo.10034133)