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Low-voltage electrical installations – Part 6: Verification

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE ELECTRICAL INSTALLATIONS –**Part 6: Verification****FOREWORD**

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International Standard IEC 60364-6 has been prepared by IEC technical committee 64: Electrical installations and protection against electrical shock.

This first edition of IEC 60364-6 replaces the second edition of IEC 60364-6-61, published in 2001, and constitutes a technical revision.

The main changes with respect to IEC 60364-6-61 are listed below:

- extension of the scope to cover, in addition to initial verification, also periodic verification of electrical installations;
- modification of verification requirements in the case of protection by automatic disconnection of the supply;
- requirements for verification of conditions for additional protection;
- requirements for reporting upon completion of initial and periodic verification;

- information concerning the measurement of earth loop impedance with current clamps;
- information concerning the evaluation of voltage drop;
- recommendations for electrical equipment which is being re-used;
- model forms of schedules that might be used for the description and for initial and periodic verification of electrical installations.

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

FDIS	Report on voting
64/1497/FDIS	64/1517/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 2.

IEC 60364 consists of the following parts, under the general title: *Low-voltage electrical installations*:

Part 1: Fundamental principles, assessment of general characteristics, definitions

Part 4: Protection for safety

Part 5: Selection and erection of electrical equipment

Part 6: Verification

Part 7: Requirements for special installations or locations

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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- withdrawn,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

LOW-VOLTAGE ELECTRICAL INSTALLATIONS –

Part 6: Verification

6.1 Scope

This Part of IEC 60364 provides requirements for initial and periodic verification of an electrical installation.

Clause 61 provides requirements for initial verification, by inspection and testing, of an electrical installation to determine, as far as reasonably practicable, whether the requirements of the other parts of IEC 60364 have been met and requirements for the reporting of the results of the initial verification. The initial verification takes place upon completion of a new installation or completion of additions or of alterations to existing installations.

Clause 62 provides requirements for periodic verification of an electrical installation to determine, as far as reasonably practicable, whether the installation and all its constituent equipment are in a satisfactory condition for use and requirements for the reporting of the results of the periodic verification.

6.2 Normative references

The following referenced documents are indispensable for the application 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 (all parts), *Low-voltage electrical installations* ¹⁾

IEC 60364-4-41, *Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock*

IEC 60364-4-42, *Electrical installations of buildings – Part 4-42: Protection for safety – Protection against thermal effects*

IEC 60364-4-43, *Electrical installations of buildings – Part 4-43: Protection for safety – Protection against overcurrent*

IEC 60364-5-51, *Electrical installation 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 60364-5-53, *Electrical installations of buildings – Part 5-53: Selection and erection of electrical equipment – Isolation, switching and control*

IEC 60364-5-54, *Electrical installations of buildings – Part 5-54: Selection and erection of electrical equipment – Earthing arrangements, protective conductors and protective bonding conductors*

1) The main title has been revised. Certain Parts of the IEC 60364 series still carry the old title.

IEC 61557 (all parts), *Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 v d.c. – Equipment for testing, measuring or monitoring of protective measures*

IEC 61557-2, *Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 v d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 2: Insulation resistance*

IEC 61577-6, *Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 v d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 6: Residual current devices (RCD) in TT and TN systems*