

Relevant Standards for Low-Voltage Complete Sets of Equipment



Article Overview

Low-voltage complete sets of equipment must comply with the EU Low Voltage Directive (2014/35/EU) and relevant IEC standards, including IEC 62368-1, with additional guidance from SIST HD 60364 for overcurrent protection and prosumer installations.

Regulatory Framework

The Low Voltage Directive (LVD 2014/35/EU) applies to electrical equipment with AC voltages between 50V and 1000V and DC voltages between 75V and 1500V. It sets essential safety requirements to protect users from electrical hazards, including electric shock, fire, and mechanical risks. Compliance with the LVD is demonstrated by affixing the CE marking on the product, which indicates conformity with EU safety standards and harmonized technical specifications (Power-Sonic) .

Key Standards

- IEC 62368-1: This standard supersedes IEC 60950-1 (ICT equipment) and IEC 60065 (AV equipment) and introduces hazard-based safety engineering principles. It covers audio-visual, information, and communication technology equipment, ensuring protection against electrical, thermal, and mechanical hazards (Power-Sonic) .
- SIST HD 60364-4-43:2023/oprAA:2025: Focuses on overcurrent protection in low-voltage installations. It specifies techniques for protecting live conductors, automatic disconnection of supply in case of overload or short-circuit, and proper placement o...

Article Content

Dec 20, 2025

Low Voltage Switchgear and Controlgear Technical Document

The standards IEC 60439-1 (Low-voltage switchgear and controlgear assemblies) and IEC 60204-1 (Electrical equipment of

Oct 17, 2025

Low-voltage electrical equipment

Some categories of electrical equipment are excluded from the scope of the Directive: not only equipment covered by other

Dec 23, 2025

Low Voltage Directive Compliance: Complete Guide | QIMA

The Low Voltage Directive sets safety requirements for a wide range of electrical products sold in the EU. Learn what

Jan 14, 2026

Designated standards: low voltage

Notices of publication and a consolidated list for designated standards for low voltage electrical equipment.

Nov 23, 2025

DIRECTIVE 2014/35/EU OF THE EUROPEAN PARLIAMENT AND

number of amendments are to be made to Directive 2006/95/EC of the European Parliament and of the Council of 12 December

Feb 08, 2026

International-electrical-standards-regulations

The world of electrical installations is not always straightforward. Working on an international project electrical engineers are often

Sep 18, 2025

Electrical standards and approved codes of practice

Listed below are some commonly used electrical standards and approved codes of practice. Additional standards and codes of

Aug 04, 2025

Low Voltage Directive (LVD) & IEC 62368-1: Complete

Learn about Low Voltage Directive (LVD) & IEC 62368-1 standards and their importance for product safety

Apr 25, 2026

IEC 60364-1:2025 | IEC

This document addresses the fundamental principles, assessment of general characteristics and definitions of low-voltage electrical

Jan 03, 2026

Technical Application Papers No.11 Guidelines to the construction of a ...

1 Standards on low voltage assemblies and relevant applicability The recent publication of the new Standard IEC 61439 has imposed

May 25, 2026

Low-voltage electrical equipment

The Directive sets out the "safety objectives" constituting the essential requirements. These requirements cover not only electrical,

Mar 03, 2026

Low Voltage Directive Guidelines 2001-en

To ensure consistency of application, CEN & CENELEC, under a mandate of the Commission have been requested to ensure that all

Feb 17, 2026

Notice of Publication 0106/24: Designated Standards

(a) The list of references to standards in Part 2 Annex I to notice 0104/24 designated pursuant to regulation 2A of S.I. 2016/1101 in

May 17, 2026

Technical Management and Risk Prevention and Control of High and Low ...

This paper comprehensively explores the technical management and risk prevention of high and low voltage

May 06, 2026

IEC 61439 Low Voltage Switchgear Design: Complete 2026 Guide

Master IEC 61439 low voltage switchgear design. Learn temperature limits, short-circuit verification, and separation forms in this

Mar 27, 2026

IEC 61439-1:2020

IEC 61439-1:2020 lays down the general definitions and service conditions, construction requirements, technical characteristics and

Apr 05, 2026

Low Voltage Directive (LVD) 2014/35/EU: Compliance Guide

Learn how to comply with the Low Voltage Directive (LVD) 2014/35/EU. Key requirements, safety standards, CE

Jan 01, 2026

Low Voltage Directive (LVD)

The low voltage directive (LVD) (2014/35/EU) ensures that electrical equipment within certain voltage limits provides a high level of

Sep 08, 2025

What are the main international standards for low-voltage electrical ...

1. What are the main international standards for low-voltage electrical equipment? What do the abbreviations and names represent?

Jan 21, 2026

Notice of Publication 0108/25: Designated Standards

For clarity, Part 2 of Annex I to this notice sets out the complete list of references to standards which have been published (and

Dec 15, 2025

TECHNICAL GUIDELINES FOR LOW VOLTAGE ELECTRICAL

This guide is based on relevant IEC standards but of particular importance is IEC 60364 series which addresses low voltage

Oct 24, 2025

Electrotechnical Standards (EN & ISO / IEC)

Find and download official European EN, ISO, and IEC standards for electrotechnical industries. Ensure compliance, safety, and high

May 11, 2026

Summary of relevant Harmonised standards for

Relevant Harmonised standards for certain electrical equipment designed for use within certain voltage

Feb 22, 2026

Electrical equipment designed for use within certain voltage limits

(19) The free movement of electrical equipment for which harmonised standards do not exist should be achieved by applying the

Jul 23, 2026

Low Voltage Directive (LVD) & IEC 62368-1: Complete

The Low Voltage Directive (LVD) & IEC 62368-1 is particularly noteworthy as it sets safety standards for

Jun 26, 2026

Electrical Equipment (implementing the Low Voltage Directive)

However, electrical equipment is also covered for certain purposes by other more recent new approach Directives which do require

Dec 18, 2025

Electrical safety: low-voltage electrical equipment

Directive 2014/35/EU creates uniform conditions throughout the European Union (EU) for the sale of electrical equipment designed

Jun 22, 2026

List of Products Covered by the Low Voltage Directive (LVD): An

Trying to understand if your electronic product must comply with the Low Voltage Directive in the EU? In this guide, we

Contact Us

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