

Article Overview

Exporting low-voltage electrical equipment requires compliance with the European Low Voltage Directive (2014/35/EU), including safety standards, CE marking, and proper documentation.

Scope and Applicability

Low-voltage equipment covered by the directive includes devices designed for use with 50-1,000 V AC or 75-1,500 V DC . The directive applies to new equipment manufactured in the EU or imported from third countries, including complete sets of electrical equipment intended for commercial or industrial use . Certain categories of equipment are excluded and regulated under other directives, so exporters must verify whether their products fall under the LVD .

Safety and Compliance Requirements

Exported equipment must meet essential health and safety requirements outlined in Annex I of the LVD, which include:

- o Protection against electric shock, fire, and mechanical hazards .
- o Proper insulation, grounding, and access protection to prevent direct or indirect contact with live parts .
- o Resistance to external influences such as environmental conditions, overloads, and foreseeable misuse .
- o Clear marking of manufacturer or importer details and essential characteristics on the equipment or accompanying documentation . Compliance with harmonized European or international standards provides a presumption of conformity. If no harmonized standards exist, national standards may be applied .

Conformity Assessment and CE Marking

Manufacturers are responsible for conducting the conformity assessment to ensure the equipment meets LVD requirements . Once compliance is confirmed:

- o The equipment must bear the CE marking, indicating conformity with EU legislation .
- o Technical documentation must be maintained, including design, manufacturing processes, and test results, to demonstrate compliance if requested by authorities .

Responsibilities of Economic Operators

- o Manufacturers: Ensure design and production meet safety requirements and carry out conformity assessment .

Export of Low-Voltage Complete Sets of Equipment

- o Importers: Verify that non-EU products comply with the LVD and that CE marking and documentation are in place .
- o Distributors: Ensure that only compliant equipment is placed on the market and that labeling and instructions are provided .

Documentation for Export

Exporters should prepare:

- o Declaration of Conformity (DoC) stating compliance with the LVD.
- o Technical file including design, risk assessment, and test reports.
- o User manuals and safety instructions in the language of the destination market.
- o CE marking on the equipment and packaging.

Additional Considerations

- o Exporters should monitor updates to the directive, including amendments like Directive (EU) 2024/2749, which may affect emergency market procedures .
- o Compliance with local regulations in the destination country may be required in addition to EU standards.
- o Noncompliance can result in financial penalties, product bans, and reputational damage . By following these requirements, exporters of low-voltage complete sets of equipment can ensure legal market access, maintain safety standards, and reduce the risk of regulatory issues in the EU and other markets.

CE marking example on a mobile phone charger CE marking is a mark () that must be affixed to certain commercial products to

The CE marking declares conformity of an electrical equipment with the essential requirements and conformity assessment

Most recent Low Voltage Directive Handbook Low Voltage Equipment Directive (73/23/EEC) CE marking is mandatory for electronic

China Shenheng Electric Power Equipment Co., Ltd. is one of the professional manufacturers specializing in the production of high-

A practical guide to Low Voltage Directive, including product scope, CE marking, DoC,

This solution covers a complete set of power equipment from low-voltage distribution cabinets, high-voltage

Export of Low-Voltage Complete Sets of Equipment

switchgear to

Electrical safety: low-voltage electrical equipment SUMMARY OF: Directive 2014/35/EU on the harmonisation of the laws of the

Want to fully understand what high and low voltage complete sets of equipment are and want to explore the

This equipment is suitable for AC systems with a frequency of 50 (60) Hz, a rated operating voltage of 690V or less, and a rated

High and Low Voltage Complete Sets These products are highly integrated, compact in size, structurally compact, safe and reliable

European Low Voltage Directive The European Union (EU) "Directive 2014/35 on the harmonization of the laws of the Member States

THE DEPARTMENT FOR BUSINESS AND TRADE NOTICE OF PUBLICATION 0108/25 of 9 January 2025 of references to

Drawer Low Voltage Distribution Cabinet Complete Electrical Equipment Control Cabinet Low Voltage

o Information technology equipment: Such as computers, printers, monitors, etc. o Audio and video equipment: Such as televisions,

The Low Voltage Directive (LVD) 2006/95/EC seeks to ensure that electrical equipment within certain voltage limits both provides a

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

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