

National Standard for Integrated Power Supplies



Article Overview

The national standard for integrated power supply systems is based on ISO/TS 81346-101:2025 and the RDS-PP® reference designation system, providing harmonized guidelines for design, documentation, and interoperability of power supply systems.

Overview of the Standard

The ISO/TS 81346-101:2025 standard provides guidelines for applying the ISO 81346 and IEC 81346 series specifically to power supply systems, supporting harmonization across technical domains and industries . It includes best practices for implementation depending on the user and situation, with examples of reference designation systems (RDS) in annexes to facilitate practical application . This standard ensures consistent structuring, identification, and documentation of power supply systems, from generation to distribution.

Reference Designation Systems

The RDS-PP® (Reference Designation System for Power Plants) is the advanced national and international framework for power supply system designation . It evolved from the KKS Power Plant Identification System, originally developed in Germany in 1978, and has been widely adopted globally. RDS-PP® integrates modern energy technologies, including energy conversion, transmission, and storage, while maintaining compatibility with international standards such as ISO/TS 81346-10 and...

Article Content

Jan 03, 2026

Guideline selection of safety standards for power supplies

Guideline selection of safety standards for power supplies Electronic power supplies, especially if they include a

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Energy Conservation Program: Energy Conservation ...

The Energy Policy and Conservation Act, as amended ("EPCA"), prescribes energy conservation standards for various

Jun 01, 2026

Power Supply Safety Standards, Agencies and Marks | CUI Inc

CUI follows best practices to ensure its power supplies meet the highest levels of safety and performance, offering products approved

Mar 30, 2026

A Guide to United States Electrical and Electronic Equipment ...

Effective March 10, 2020, the DOE adopted a new energy conservation standard for uninterruptible power supplies, a class of battery

Apr 09, 2026

Efficiency Standards for External Power Supplies | Bel

Learn about the regulatory environment surrounding external power supplies and CUI's commitment to ensuring their

Jul 21, 2026

Guide to EMC Standards for Power Supplies | Blogs | TDK Lambda

Guide to EMC Standards for Power Supplies EMC & EMI Safety Certification Tuesday, March 4, 2025 Introduction

Jul 17, 2026

Designing Power Supplies for Industrial Functional Safety— Part 1:

For integrated circuits with on-chip redundancy, IEC 61508-2 Annex E also cites several normative requirements

May 27, 2026

Power Supply Safety Standards

The ability to sell power supplies around the world, either built-in or external types, depends on meeting the relevant

May 23, 2026

IEC standards for power supplies

Dive into the complex world of IEC standards for power supplies and uncover the science behind keeping

Apr 13, 2026

Standards and guidance – Energy Networks Association (ENA)

We are responsible for producing and maintaining a range of industry standards and guidance. Here you can learn about how these

Aug 31, 2025

Power Supply Safety Standards, Agencies and Marks | CUI Inc

The ability to sell power supplies, either built-in or external types, around the world depends on meeting the relevant safety standards

Aug 19, 2025

Ecodesign requirements – external power supplies

active power-over-Ethernet injectors; docking stations for autonomous appliances; external power supplies placed on the market

Aug 24, 2025

Standards, Safety, and Compliance in AC Power

National and International Standards Numerous international and national organizations have created a comprehensive set of

Sep 17, 2025

CSM_PowerSupply_TG_E_8_3

What Is a Power Supply? To obtain electricity, we use commercial AC power that is sent from power plants. But the integrated

Oct 29, 2025

The changing maze of power supply standards

Brexit altered the landscape of standards for power supply products. Here's an update on the latest revisions. Ron Stull

Oct 18, 2025

National Standard for Integrated Power Supply Systems

The BS ISO 81346-10:2022 standard is a comprehensive guide designed to provide a structured approach to the designation of

Jun 14, 2026

Power Supply Safety Standards

power supply safety standards impact the design of electrical devices by imposing requirements on insulation,

Jun 08, 2026

Understanding Power Supply Certifications: A Complete Guide to

Power supply certifications are official confirmations that an electrical product meets specific safety and performance standards.

Nov 01, 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

Mar 28, 2026

IEC homepage

IEC everywhere for a safer and more efficient world. The IEC is a global, not-for-profit membership organization that brings together

Aug 24, 2025

SP 800-53 Rev. 5, Security and Privacy Controls for Information

This publication provides a catalog of security and privacy controls for information systems and organizations to

Mar 18, 2026

American National Standards Institute

Review the latest domestic and international standards proposals, documents for public comment, new initiatives, and other

Apr 06, 2026

Selection of safety standards for power supplies

The EN 60950-1 was for many years the measure of all things in power supplies. Even though this standard only described

Apr 20, 2026

ISO/TS 81346-101:2025

This document gives guidelines to support the application of the ISO 81346 and IEC 81346 series to power supply systems. It also

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Designing Power Supplies for Industrial Functional Safety— Part 1:

With the IEC 61508's three key requirements for functional safety (FS) compliance alongside recommended diagnostic

Jul 21, 2026

Microsoft Word

Power Supplies, also known as OEM, Modular or Sub Unit Power Supplies, are designed, produced and intended to be

May 21, 2026

Electrical regulations and standards

In most countries, electrical installations shall comply with more than one set of regulations, issued by National

Nov 15, 2025

Power Supply Standards Compliance

The IEC 60950 standard which relates to power supply compliance, is including IEC 62368-1 to incorporate hazard

Nov 15, 2025

Integrated planning of net-zero power systems for all

Findings show that net-zero global power systems meeting universal electricity needs for decent living standards are

Oct 01, 2025

Power supply regulations, requirements, and standards

Regulatory standards cover safety and electromagnetic compatibility (EMC), in addition to efficiency. Safety and EMC

May 19, 2026

Designated standards: power supplies

Notices of publication and a consolidated list for designated standards for external power supplies in relation to

Feb 07, 2026

Trends in power supplies. The impact of international standards in ...

Since the largest markets for programmable power supplies were in North America at that time, there was little incentive to

Jun 04, 2026

New Standards for External Power Supplies and Adapters

Learn about the current state of efficiency regulations by looking at external power supplies (EPS) standards around

Mar 04, 2026

External Power Supplies

Product Energy Efficiency - External Power Supplies. The rules apply to both the active efficiency and the no-load power

Contact Us

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