

Industry Guidelines for Power Supply Units



Overview

This document gives guidelines to support the application of the ISO 81346 and IEC 81346 series to power supply systems. It also specifies best practice for its use and implementation depending on the user and situation. Bernhard inptontron Schaltnetzteile GmbH September 2019, 1. Edition law is inadmissible without the consent of the publisher. Electrical equipment that takes power from a distributed AC or DC source which is connected to other equipment, such as the AC mains in a building, has to have minimal influence on that source. The application of this document supports harmonization within and between the. Safety standards for power supplies are essential guidelines that ensure electrical devices operate safely and efficiently. The new previous standards examinations were field driven, product specific and construction based where products would need to be designed around. Why Custom Power Supplies?

Modern systems—from renewable energy and telecom to medical devices and battery energy storage—often require non-standard voltages, isolation, reliability levels, or mechanical envelopes.

Article Content

How to Choose the Best PC Power Supply

How to Choose the Best PC Power Supply Whether you're upgrading your desktop PC or building one out from scratch,

Differences Between International Safety Standards for

CUI helps designers understand how international safety standards can be applied to your power supply design.

Industrial Power Supply Units (PSUs) | Nexperia

Industrial Power Supply Units (PSUs) need to be safe and efficient. In addition, they are also obliged to fulfil legislative requirements like power factor correction (PFC). Typical applications include DIN rail

What is a PSU: Power Supply Units explained

BLOG What is a PSU: Power Supply Units explained The PSU is the primary source of power for all the components in your PC. It converts the electricity from your

Power Supply Standards Compliance

With our digital usage ever increasing, power supply safety and reliability is important to device accuracy and productivity. The IEC 60950

Industrial Power Supply Units Market Size & Share 2025

The industrial power supply units market size exceeded USD 16.5 billion in 2024 and is expected to grow at a CAGR of 5.6% from 2025 to 2034, driven by rising

Understand Power Supply Units: A Comprehensive

Read our Understand Power Supply Units A Comprehensive Guide: quick guides, standards and tools from Ideal Power to speed design and approvals.

ASHRAE TC9.9 Data Center Power Equipment Thermal Guidelines

1. Introduction Changing data center environmental conditions are of importance to IT equipment but also to power equipment, especially where the two types of equipment share the same physical

Microsoft Word

The European Power Supplies Manufacturers' Association was established in 1995 to represent the European power supply industry.

What is a PSU: Power Supply Units explained

When it comes to ensuring the quality and reliability of Power Supplies, two main certification companies stand out in the industry: 80 PLUS and Cybenetics. Let's review what both offer. [Cybenetics](#)

[Power Supply: What It Is, What It Does & How It Works](#)

Learn what a power supply is, how it works, and why rugged, reliable power systems matter for military and mission-critical environments.

[Guidelines for Safe Power Supply Systems | PDF](#)

This document provides guidelines for developing safe power supply systems in compliance with ISO 26262. It begins with an introduction to increasing safety

[Guide to EMC Standards for Power Supplies | Blogs](#)

This covers the EMC requirements for power supply units with DC output (s) of up to 200V, at power levels up to 30kW, and operating from AC or

[Power Supply Safety Standards: Compliance with](#)

Learn about power supply safety standards and their importance in meeting international regulations. Ensure your power supply designs meet global standards.

[ISO/TS 81346-101:2025](#)

Industrial systems, installations and equipment and industrial products — Structuring principles and reference designations — Part 101: Modelling concepts, guidelines and requirements for power

[Power Supply Safety Standards, Agencies and Marks | CUI Inc](#)

UL 1310 specifies requirements covering indoor and outdoor use Class 2 power supplies and battery chargers in applications such as lighting systems, machinery and other appliances installed in

[ISO/TS 81346-101:2025 \(en\), Industrial systems, installations and ...](#)

Industrial systems, installations and equipment and industrial products — Structuring principles and reference designations — Part 101: Modelling concepts, guidelines and requirements for power

[Custom Power Supply Design: Complete Engineering](#)

Learn how custom power supply design and battery test systems ensure efficiency, safety, and reliability. Explore applications from energy storage

[Power Supply Safety Standards](#)

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

[Industrial Powerhouse: Key Types of Power Supply](#)

Uncover the different types of power supplies and their roles in various industries. Learn about power supply types in our comprehensive blog post today!

Guide to EMC Standards for Power Supplies | Blogs

Most power supplies now incorporate power factor correction circuitry to ensure that the harmonic currents are low. EN61000-3-3: Limits voltage

Guideline Selection of safety standards for power supplies

Basic safety applies to every power supply. This ensures that dangers that can emanate from the power supply itself, such as electric shock, burns, injuries, fire and the like, are reduced to an acceptable level.

ISO/TS 81346-101:2025

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Guideline 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 information technology equipment within its scope of application, it was used

The basics of power supplies in industrial machinery

A variety of power sources are typically required to operate industrial machinery. This includes the plant line side ac voltage down to the electronic devices— power

Power Supply Safety Standards

Understanding the different PSU standards makes it easier to choose the optimal solution for your specific application, keeping safety at the forefront of

A Comprehensive Guide to Choosing the Right Power

Understanding Power Supply Units (PSUs) A power supply unit (PSU) is an essential component of any computer build, as it serves as the

Power Supply Sizing for Industrial Automation Systems

In this article, we will discuss the importance of power supplies and how to do power supply sizing for industrial automation systems such as PLC and

Our Guide to Data Center Power Supply | What You

A complete guide to data center power supply. Improve reliability, cut downtime, and future-proof your infrastructure with smart design strategies.

Contact Us

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