

German High-Frequency Switching Power Supply Intelligent



Overview

Infineon Technologies AG of Munich, Germany is introducing a 12kW reference design for high-performance power supply units (PSUs), specifically designed for AI data centers and server applications, and targeted at R&D engineers, hardware designers, and developers of power. Infineon Technologies AG of Munich, Germany is introducing a 12kW reference design for high-performance power supply units (PSUs), specifically designed for AI data centers and server applications, and targeted at R&D engineers, hardware designers, and developers of power. 12KW high frequency and high power density PSU for AI data centers and server applications Application note Please read the sections Important notice and Warnings at the end of this document V 1. The " Intelligent High-Frequency Switching DC Power Supply Device market " is anticipated to experience significant growth, with a projected CAGR of 7. This market expansion is driven by increasing demand and innovative advancements in the industry. In collaboration with NVIDIA, Infineon will develop the next generation of power systems based on a new architecture with centralized power generation through 800V high-voltage direct current. The intelligent power supply integrates a microcontroller (MCU) or Digital Signal Controller (DSC) for a fully programmable and flexible solution.

Article Content

Mar 07, 2026

Research Status and Applications of Dual-Frequency

They can switch between low and high frequencies to meet diverse heating needs, from metal melting to surface hardening. The power levels are

Oct 01, 2025

Issues and advances in high-frequency magnetics for switching power ...

Magnetic components have been and will continue to be an essential element in power conversion and management circuits. Due to this pivotal role, magnetic components have seen continuous efforts to

Nov 28, 2025

What Is a Switching Power Supply (SMPS)? | Tektronix

Discover what a switching power supply (SMPS) is and how it efficiently converts AC to DC using high-frequency switching. Learn its

Apr 30, 2026

What is High-Frequency Switching Power Supply?

A high-frequency switching-mode power supply (HF-SMPS) converts AC or DC input into tightly regulated DC output by switching transistors on and off tens-of-thousands of times per

Dec 23, 2025

PowerPlus High Frequency Power Supply | NWL

NWL is the leading manufacturer of high frequency switch mode technology power supplies for use in high power industrial applications.

Jun 04, 2026

GZDW | Intelligent High Frequency Switching Power

Modular design using high-frequency switch power supplies with N+1 hot standby. Smooth adjustment of output voltage and current. Distributed multi-level

Mar 19, 2026

Frequency Selection in Switching Power Supply Designs (Part I)

Part I will discuss calculating for the key variables of switching frequency, as well as the challenges with higher frequencies. Part II will cover how to design a switching power supply for frequency ranges in

Dec 24, 2025

Switching Power Supplies

We offer a wide portfolio of switching power supplies from the renowned manufacturer MEAN WELL. We guarantee high availability and attractive prices.

Dec 08, 2025

Infineon Launches 12 kW High-Density PSU for AI Data Centers

Munich, Germany – 10 September 2025 – Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) is introducing a 12 kW reference design for high-performance power supply units (PSUs), specifically

Jan 31, 2026

iES-GZDW High-frequency Switch DC Power Supply

The system utilizes the parallel of intelligent high-frequency switching power supply module and N+1 redundant hot standby for charging and float charging and adopts the computer monitoring

Aug 08, 2025

12KW high frequency and high power density PSU for AI data centers

With a size of just 40 mm × 68 mm × 3640 mm (including chassis) and 113 W/in power density, REF_12KW_HFHD_PSU shows a viable approach for achieving higher power density and efficiency

Jan 16, 2026

GZDW Intelligent High Frequency Switching Power Supply DC System

GZDW intelligent high-frequency switching power supply DC system is a power supply screen designed specifically for users with different capacities. The system mainly consists of monitoring module,

Mar 05, 2026

Intelligent Power Supply Design Solutions

Today, power supply designers must create power conversion products that offer greater efficiency, higher power density, higher reliability, advanced communications and sophisticated control features.

Jul 02, 2025

Infineon Technologies : releases 12 kW high-density power supply unit ...

Munich, Germany - 10 September 2025 - Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) is introducing a 12 kW reference design for high-performance power supply units (PSUs), specifically

Oct 25, 2025

Scaling AI Data Center Power Delivery with Si, SiC, and GaN

In the totem-pole PFC stage, which operates in a hard-switched, continuous-conduction mode (CCM) when managing kilowatts of power, SiC supports higher switching frequencies, reduced commutation

Sep 23, 2025

Intelligent High-Frequency Switching DC Power Supply Device

The intelligent high-frequency switching DC power supply device is a power supply device that uses high-frequency switching technology to convert alternating current into stable direct

Mar 06, 2026

UPS, Frequency Converter, Rectifier, Battery Charger, Inverter,

Manufactured in Germany, our solutions combine high-performance battery technology with intelligent control systems for efficient and reliable energy management.

Mar 12, 2026

Infineon releases 12kW high-density PSU reference design for AI data ...

Infineon Technologies AG of Munich, Germany is introducing a 12kW reference design for high-performance power supply units (PSUs), specifically designed for AI data centers and server

Feb 02, 2026

Characteristics of High Frequency Switching Power Supply

High-frequency switching power supplies are widely used in various electronic devices and systems due to their efficiency, compact size, and lightweight design.

Oct 07, 2025

In-Depth Analysis of the Intelligent High-Frequency Switching DC

The benefits of this device include enhanced energy efficiency, reduced size and weight due to compact design, and improved thermal management, leading to lower operational costs.

Aug 05, 2025

Intelligent Power Supply Design Solutions

Intelligent Power Supply Solutions Today, power supply designers must create power conversion products that offer greater efficiency, higher power density, higher reliability, advanced

Sep 12, 2025

Integrated Very High Frequency Switch Mode Power Supplies: Design ...

Abstract—This paper presents a power supply using an in-creased switching frequency to minimize the size of energy storing components, thereby addressing the demands for increased power densities in

Apr 03, 2026

Infineon: Architecture for power supply in AI servers of

This revolutionary step paves the way for the introduction of advanced power supply architectures in high-performance data centers for even faster AI computing and

Nov 30, 2025

What Is IGBT Based High Frequency Switch Mode

Today, high-power switching power supplies have been widely used in industrial automation control, military equipment, scientific research equipment,

Mar 07, 2026

Intelligent Power Supply Design Solutions

Intelligent power supplies can monitor internal temperatures and supply power to cooling fans only when needed. They can also dynamically change the control loop behavior to provide the optimal system

Jun 02, 2026

Two-stage high-frequency switching power supply device design study

The current volume and efficiency of high-frequency switching power supplies in power supply system cannot meet practical requirements. Therefore, a modular equipment was studied to

Mar 26, 2026

Modeling and Simulation of High-frequency Switching Power Supplies

These power supplies are widely used in a variety of applications, such as telecommunications, computing, automotive electronics, and renewable energy systems. The growing demand for smaller,

Sep 14, 2025

Evolution of Very High Frequency Power Supplies

The ongoing demand for smaller and lighter power supplies is driving the motivation to increase the switching frequencies of power converters. Drastic increases however, come along with

May 28, 2026

A Review of High Frequency Power Converters and Related Technologies

Development of power electronic converters tend to achieve high efficiency and at the same time high power density in many industrial applications. In recent years, with emerging third

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