

High-frequency switching power supply 10kWODM



Overview

The module adopts DSP digital control, resonant soft switching, active PFC technology, and is protected by multiple patents. The module features high power density, high power factor, low harmonics and high efficiency, and has the performance of allowing multiple modules to. NWL first developed the PowerPlus™ switch mode power supply (SMPS) to provide an integrated high voltage system for electrostatic precipitator applications. Specific applications are as follows: Used in semiconductor and LCD manufacturing, MEMS manufacturing, solar cell manufacturing, plasma cleaning, steel and forging industries. Description Switching Power Supply (SMPS) converts AC input to regulated DC outputs using high - frequency conversion. The main idea behind a switch mode power supply can easily be understood from the conceptual explanation of a DC-to-DC converter, as shown in Figure 1. This article is the first part of a two-part series.



Article Content

Jul 13, 2026

High-frequency power supply

Find your high-frequency power supply easily amongst the 52 products from the leading brands (Kikusui, Voita, Wisman, ...) on DirectIndustry, the industry specialist for your professional purchases.

Jul 16, 2026

PowerPlus High Frequency Power Supply | NWL

NWL first developed the PowerPlus™ switch mode power supply (SMPS) to provide an integrated high voltage system for electrostatic precipitator applications. With more than 3,500 units delivered ...

Aug 29, 2025

Switch Mode Power Supply (SMPS) Topologies

The semiconductor switches used to implement switch mode power supplies are continuously switched on and off at high frequencies (50 kHz to several MHz), to transfer electrical ...

Jul 28, 2025

10 kV high-voltage DC power supply design with novel ...

In this paper, a high-voltage DC power supply with 10 kV for an intense field dielectric was designed and a new SM-PSFB controller was designed for this power supply.

Dec 22, 2025

10kW CCTWT Power Supply

Optional features are a ultra high frequency grid modulator (10kHz), FE control switch, ultra low noise EMI/EMC, pulse droop compensation, ultra low pulse to pulse distortion, and a smaller lighter ...

Feb 08, 2026

AC-DC Switching Power Supply, 10,000 Watts, TDST-10000 SERIES

The TDST-10000 Series of Rugged, High Power AC-DC power supplies provides highly regulated output power to 10kW. Rugged construction and superior quality makes this power supply ideal for harsh ...

Sep 01, 2025

High Frequency Switching Power Supplies

Description: Switch mode power supply (SMPS) capacitors are designed to provide superior performance in high frequency switching applications. These MIL-PRF49470 qualified and DSCC ...

Nov 18, 2025

8 High Frequency Power Supply Manufacturers in 2026

This section provides an overview for high frequency power supplies as well as their applications and principles. Also, please take a look at the list of 8 high frequency power supply manufacturers and ...

Oct 09, 2025

Frequency Selection in Switching Power Supply Designs (Part I)

Part II will cover how to design a switching power supply for frequency ranges in practical applications. Switching power supplies use a switching action to transform DC power into a specific frequency of ...

Dec 11, 2025

Imax New Energy Power Supply – IM100-10K Series High-frequency ...

The IM100-10K series high-frequency switching rectifier module is an AC-DC module with adjustable AC voltage input and DC voltage output. The module adopts DSP digital control, resonant soft switching, ...

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town, 7441, South Africa

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