

New High-Frequency Switching Power Supply Solution in Panama



Article Overview

Panama now hosts advanced high-frequency DC power solutions like SuperX Panama-800VDC and Aurora-800VDC, offering ultra-high efficiency, modular deployment, and scalable support for AI and hyperscale data centers.

SuperX Panama-800VDC and Aurora-800VDC Solutions

SuperX Panama-800VDC is designed for new AI hyperscale centers, providing a direct DC path from medium-voltage grids to GPUs, integrating MV switchgear, phase-shifting transformers, and 800V rectifier cabinets into a single-step power delivery system. Key features include up to 98.5% efficiency, modular hot-swappable design for online maintenance, prefabricated rapid deployment, and scalability beyond 1 MW per rack, ideal for high-density GPU clusters. SuperX Aurora-800VDC targets existing data centers, enabling non-disruptive retrofits without rebuilding main distribution rooms. It supports single-rack upgrades within hours, scalable from 200 kW to over 1 MW, and is optimized for next-generation AI workloads. Both systems reduce power conversion stages from 4-5 to 1-2, minimizing energy loss and operational costs.

Technical Advantages

- High-frequency switching with GaN and SiC devices ensures efficient energy transmission from medium-voltage input to GPU chips.
- DC-to-Chip direct supply reduces cable diameter and copper usage, potentially saving hundreds of thousands of tons of copper in large-scale deployments....

Article Content

Switching Power Supply: Uses Advantages and Working Principle

In switching power supply designs the input voltage is rectified and filtered at the input. Then it goes through a chopper, which

Renewables Readiness Assessment: Panama

Panama's total primary energy supply has historically had a high dependence on oil and oil products. Figure 2 shows the evolution of

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,

High Frequency Switching Power Supplies

Find High Frequency Switching Power Supplies related suppliers, manufacturers, products and specifications on GlobalSpec - a

Cloud/Hyperscale IDC | Zhonhen

Zhonhen Panama & T-train is a 10kV uninterruptible power supply system with DC/AC switch, designed for cloud/hyperscale

MOSFET fast switching: motivation, implementation and precautions

Scope and purpose This application note provides a brief introduction to MOSFET fast switching in hard-switched applications,

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

GSS Energy

We supply, install and maintain electric power generation solutions in the ranges from 1 to 3000kW, required by the different sectors

Panama Power Supply System to AIDC | Solutions

Panama provides a robust, renewable-powered electricity supply perfectly suited for AI data center operations, featuring strategic

Understanding Switching Power Supplies: Design, Function, and

Switching power supplies are compact, efficient systems that convert electrical energy using high-frequency switching techniques.

Electrification in Panama

Overview of electrification in the country, including history, current status, geographic & demographic trends, and future plans. The

Panama Power Supply System to AIDC | Solutions

Panama Power Supply System to AIDC Panama provides a robust, renewable-powered electricity supply perfectly suited for AI data

Leading Switching Power Supplies & Solutions | PSU Itaww

Delta's switching power supplies feature DIN rail, panel mount, open frame, and other options, offering leading technologies for

Switching Power Supplies

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