CIF Price of Low-Loss High-Frequency Switching Power Supplies Exported to Portugal



Overview

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Key Takeaways

The CIF price of low-loss high-frequency switching power supplies to Portugal depends on device technology, power rating, efficiency, and shipping costs, typically ranging from $50 to $500 per unit for standard industrial modules.

Factors Affecting CIF Pricing

Technology TypeGaN (Gallium Nitride) devices offer high switching frequency (~1 MHz), high efficiency, and compact size, reducing system losses and thermal management costs.

Si

C (Silicon Carbide) devices provide high voltage tolerance and efficiency at high frequencies, but may have higher unit costs due to substrate and manufacturing complexity. Traditional silicon-based devices are generally cheaper but less efficient at high frequencies.

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Power Rating and Efficiency

Higher power modules (e.g., 500 W–1 kW) with low conduction and switching losses command higher prices. Efficiency improvements reduce energy loss and heat dissipation, which can justify a premium price. Switching FrequencyHigh-frequency operation reduces passive component size, improving power density and reducing shipping volume, but increases semiconductor switching losses, which may require advanced cooling or packaging, affecting cost.

Shipping, Insurance, and Freight (CIF)CIF includes the product cost, international shipping, and insurance to the port of destination (Portugal). Shipping costs depend on weight, volume, and transport method (air freight is faster but more expensive than sea freight). Insurance typically adds 1–3% of the product value.

Typical CIF Price Range

Small industrial modules (10–50 W): $50–$150 per unitMedium power modules (100–500 W): $150–$300 per unitHigh-power modules (500 W–1 kW): $300–$500 per unit These ranges assume standard commercial quantities and do not include custom engineering or specialized certifications. Bulk orders may reduce per-unit CIF costs.

Recommendations

Request quotes from multiple suppliers (e.g., Infineon, Texas Instruments, GeneSiC) specifying power rating, efficiency, and technology. Include shipping terms (CIF Lisbon or Porto) to get accurate landed costs. Consider volume discounts and potential import duties or VAT in Portugal.

By understanding the technology, efficiency, and shipping factors, you can estimate CIF pricing and negotiate effectively with suppliers.

Article Content

Trade Statistics by Country | WITS

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Deep Dive into High-Frequency Switching-Mode Power Supply ...

The High-Frequency Switching-Mode Power Supply (HF-SMPS) market is booming, projected to reach $25 billion by 2033, driven by renewable energy, EVs, and data centers. Explore

Switching Power Supply Imports Under HS Code 85044010

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Information and reports on Switching Power Supply Imports Under HS Code 85044010 along with detailed shipment data, import price, export price, monthly trends, major exporting countries

CIF Price Explained: Hidden Costs, Risks & Use Cases

CIF price explained clearly: uncover hidden landed costs, insurance gaps, risk transfer issues, and when CIF makes sense before you approve your next shipment.

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This article builds on switching frequency concepts to analyze switching power supply designs for three different frequency ranges, sorted from low to high.

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

The Loss Analysis and Efficiency Optimization of Power Inverter

Based on this situation, an adaptive discontinuous pulsewidth modulation (ADPWM) is proposed to optimize the power inverter efficiency under the high switching frequency, which can effectively

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What Is CIF Shipping? Cost, Insurance & Freight Explained

Learn what CIF (Cost, Insurance & Freight) means, when risk transfers, who pays what, and how CIF compares to FOB, DDP, and EXW—plus best practices to avoid hidden costs and

Switching Mode Power Supply Market Trends 2025-2035

There is a growing demand for energy-efficient and space-saving solutions across industries, and manufacturers are developing high-density, low-noise SMPS units that provide

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