

Ukrainian high-frequency communication inverter

Why do Ukrainian forces use VHF/UHF and SATCOM?

VHF/UHF and SATCOM alongside: By implementing Western-supplied encrypted VHF/UHF tactical radios and satellite connections, Ukrainian forces have managed successful data transmission. HF radios function as secondary communication tools, replacing other options when primary data transmission methods become inaccessible.

Does Ukraine need backup Blos data communication links?

The high data rates of satellite systems, which Ukraine extensively uses, demonstrate the need for backup BLOS data communication links. VHF/UHF and SATCOM alongside: By implementing Western-supplied encrypted VHF/UHF tactical radios and satellite connections, Ukrainian forces have managed successful data transmission.

How has modern warfare impacted the Ukraine conflict?

Modern warfare has used the Ukraine conflict (2022-2025) to demonstrate the harsh realities of current combat operations. Communication systems maintain their status as one of the most important domains, experiencing both ongoing transformation and escalating vulnerability, while also demonstrating resilience.

The unveiling of the Himera G1 radio at the Inscience Conference in Kyiv, Ukraine, represents a crucial advancement in tactical communications, ...

This article presents a high gain pure sine-wave inverter based on the full-bridge dc-ac high-frequency link cycloconverter topology for telecom or general-purpose applications.

Communication cables between multiple inverters or inverter/charger units to create a parallel and/or 3-phase system. Communication cables to control equipment, for example, between a ...

Discover how Ukraine's off-grid inverters tackle power instability while supporting renewable energy integration and industrial resilience. This article explores the growing demand for 50Hz ...

Why High Frequency Hybrid Solar Inverter (HVM) HVM series high frequency off grid inverter, thoughtfully design and optimized for small power supply system ...

Abstract--We introduce a circuit topology and associated control method suitable for high efficiency DC to AC grid-tied power conversion. This approach is well matched to the ...

The unveiling of the Himera G1 radio at the Inscience Conference in Kyiv, Ukraine, represents a crucial

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advancement in tactical communications, particularly in the context of electronic ...

The updated technical framework will be presented to and agreed with the Ministry of Energy of Ukraine, ensuring alignment with national policy objectives and supporting the resilience of the ...

The ABB NINT-63C is a high-reliability communication interface board designed specifically for integration with ABB ACS600 series inverter drives. It enables seamless data communication ...

With the demand for the miniaturization and integration of wireless power transfer (WPT) systems, higher frequency is gradually becoming the trend; thus, the power electronic ...

High frequency (HF) communication, commonly covering frequency range between 3 and 30 MHz, is an important wireless communication paradigm to offer over-the-horizon or even ...

This transformerless, high-frequency inverter offers split-phase 120/240V output, operating off-grid or with grid input for supplemental charging. Its dual MPPTs ...

Design of a high-frequency inverter with high quality of output parameters along with reduction of its circuit complexity and cost is a topical task. In the paper, the main methods of the design of ...

Ukrainian startup HIMERA, known for its secure digital communication systems such as the G1 radio, has announced an expansion of its product line with the introduction of ...

In the paper, the main methods of the design of high-frequency inverters are analyzed. The principle of a magnetic switch operation based on high-frequency magnetic amplifiers, whose ...

Designed for mobility and fast deployment, our foldable solar power containers combine solar modules, storage, and inverters into a single transportable unit. Ideal for emergency scenarios, ...

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