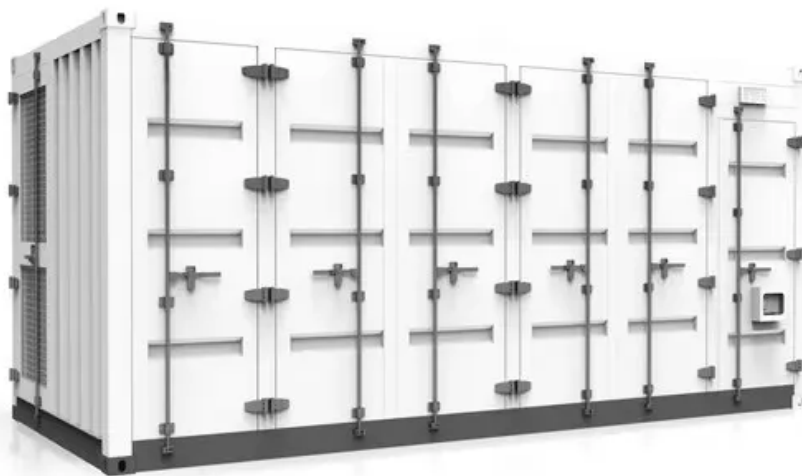


Production of UHV inverters





Overview

What is UHV power transmission?

UHV power transmission refers to the power transmission technology with voltage levels of AC 1000 kV and above, and DC ± 800 kV and above.

How much power is transmitted through UHV?

At present, power transmitted through UHV accounts for 1/4 of the power load in eastern and central China. Additionally, 70 % of the electricity transmitted through the UHV project is generated from clean energy.

What is a UHV converter transformer?

3.1. UHV converter transformer In the UHVDC project, the 12-pulse converter is used as the basic converter unit, and each UHV converter station has 24 converter transformers operating in combination according to the disconnection method, providing two groups of commutation voltages with equal amplitude and 30° difference for the converters .

What does the 14th five-year plan mean for UHV transmission technology?

During the "14th Five-Year Plan" period, UHV has entered a new stage of large-scale, high-intensity and high-quality construction, and the development of UHV transmission technology also needs to meet the overall development needs of the country, which is reflected in the following aspects.

How reliable is a UHV transmission system?

Therefore, the reliability and safety requirements of UHV technology and equipment are very stringent. According to the National Power Reliability Index of 2023 released by China's National Energy Administration, the energy availability rate of the UHVDC transmission system is 96.847 %, showing a continuous improvement in reliability.

How does the UHV project affect the environment?



Additionally, 70 % of the electricity transmitted through the UHV project is generated from clean energy. This is equivalent to a reduction of 830 million tons in coal usage, a decrease of 2 billion tons in carbon dioxide emissions, and a decrease of 6.5 million tons in pollutant emissions in eastern and central China .



Production of UHV inverters



Development and prospect of UHV transmission technology

During the "14th Five-Year Plan" period, UHV has entered a new stage of large-scale, high-intensity and high-quality construction, and the development of UHV transmission ...

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Schaeffler Begins Mass Production of High-Voltage Inverter Brick ...

5 days ago· Schaeffler has started volume production of its high-voltage inverter brick at its Tianjin site in China, supplying a leading domestic carmaker as part of its push to expand in ...

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ROHM and Schaeffler begin mass production of high-voltage SiC ...

ROHM and Schaeffler have announced the start of mass production for a new high-voltage inverter brick featuring ROHM's silicon carbide (SiC) metal-oxide-semiconductor field ...

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ROHM and Schaeffler Launch Mass Production of SiC-Based ...

The Schaeffler inverter subassembly functions as the fundamental power electronics brick that governs the electric drivetrain through logic-based control signals. ROHM ...

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About us

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Schaeffler Starts Volume Production of High-Voltage Inverter Brick

2 days ago · It is the first large-scale production of a high voltage inverter brick for leading Chinese automotive manufacturer.

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ROHM's SiC MOSFETs in mass production in Schaeffler's ...

As part of their strategic partnership (initiated in 2020), Japan's ROHM Co Ltd and Germany-based automotive supplier Schaeffler (formerly Vitesco Technologies) have started ...

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Denso to Soar Inverter Capacity in New Production Line , AEI

Denso will start production of its inverters at its Fukushima site in Japan to expand electrification market and meet needs of mobility suppliers.

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DC Ultra High Voltage (UHV) Market

Several large-scale UHV projects operating at ± 1100 kV are under development, and their successful implementation is expected to drive ...

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ROHM's SiC MOSFETs adopted in Schaeffler's Inverter Brick

ROHM and Schaeffler, a German automotive supplier, have started mass production of a new high-voltage inverter brick equipped with ROHM's SiC (silicon carbide) ...

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SiC MOSFETs adopted in inverter brick and now in mass production

ROHM and Schaeffler have begun mass production of a new high-voltage inverter brick equipped with ROHM's SiC MOSFET bare chips as part of their strategic partnership. ...

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ROHM and Schaeffler begin mass production of high-voltage SiC inverter

ROHM and Schaeffler have announced the start of mass production for a new high-voltage inverter brick featuring ROHM's silicon carbide (SiC) metal-oxide-semiconductor field ...

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ANALYSIS OF ECOLOGY AND EFFICIENCY OF ...

Abstract- This article explores the integration of ultra-high voltage (UHV) transmission lines into energy systems to improve environmental sustainability and operational efficiency. It highlights ...

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DC Ultra High Voltage (UHV) Market

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ROHM's SiC MOSFETs Adopted in Schaeffler's New Inverter ...

ROHM's SiC MOSFETs Adopted in Schaeffler's New Inverter Brick - Now in Mass Production
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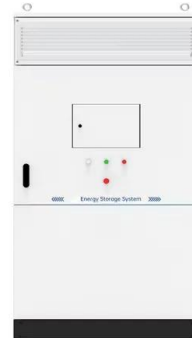
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Types of solar inverters: microinverters vs string inverters

String inverters connect multiple solar panels in a series. Power is routed to a single inverter, where it's converted to AC, then distributed to your main ...

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ROHM and Schaeffler Begin Mass Production of SiC-Based High ...

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