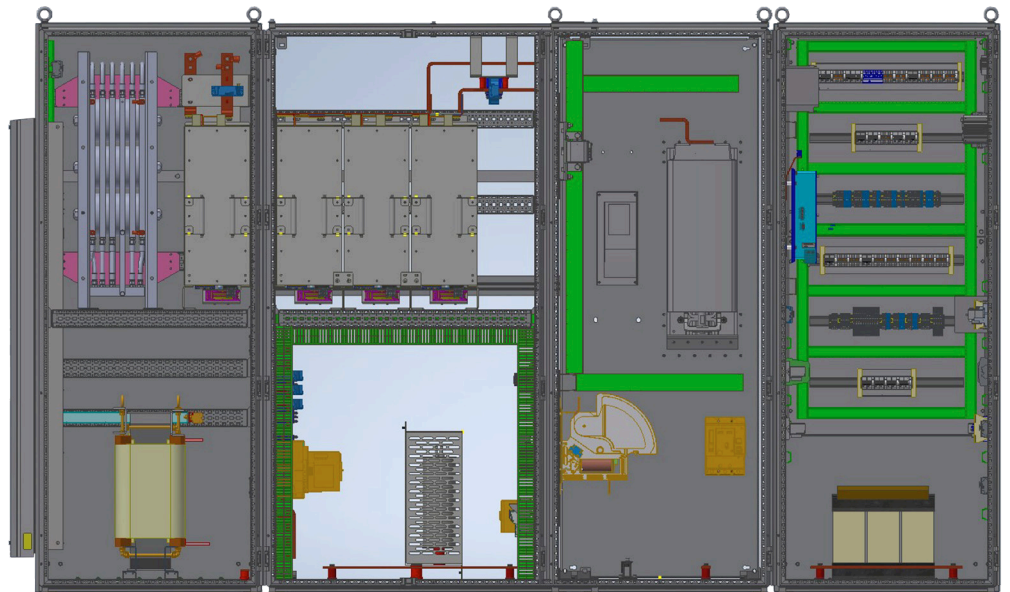


Converter for variable-speed generators

Frequency converter KONGEN500

The KONGEN500 frequency converter enables the generation of electrical energy with variable voltage and frequency, adapting to the rotational speed of the generator.



High efficiency: Based on the latest IGBT technology, the converter is designed to maximize mechanical-to-electrical energy conversion while minimizing losses.

Proprietary control algorithms: Ensure precise speed control of the generator and stable electrical output, fully adapted to grid requirements

Enhanced renewable energy integration: Supports seamless integration of renewable energy sources, such as wind and hydro power plants, by adjusting to fluctuations in energy production.

Scalability: Adaptable to various generator sizes and energy demands, making it a versatile solution for power systems.

Improved grid stability and reliability: Through precise control of electrical parameters, the converter enhances power grid stability and reliability, ensuring full compliance with grid connection regulations.

Safety: Designed in accordance with all relevant safety standards, ensuring the protection of both equipment and personnel. Low maintenance costs: Equipped with remote monitoring and diagnostics systems, enabling efficient fault detection and preventive maintenance to maximize availability and reliability.

Flexibility: Developed in-house, both in terms of power electronics and control systems, allowing for custom implementation of additional user requirements.

The converter operates fully autonomously, making it suitable for unmanned facilities. It supports all major industrial communication protocols and can be integrated into higher-level control systems.

KONgen 500 converter

Technical specifications	
Generator type	Synchronous machine with permanent magnets
Nominal power	500 kVA
Nominal grid voltage	690 V
Nominal current to grid	418 A
Dimensions (W × D × H)	3400×800×2100 mm
Cooling method	Water-cooled
Ambient temperature range	-20°C ÷ 40°C
Protection rating	IP44

