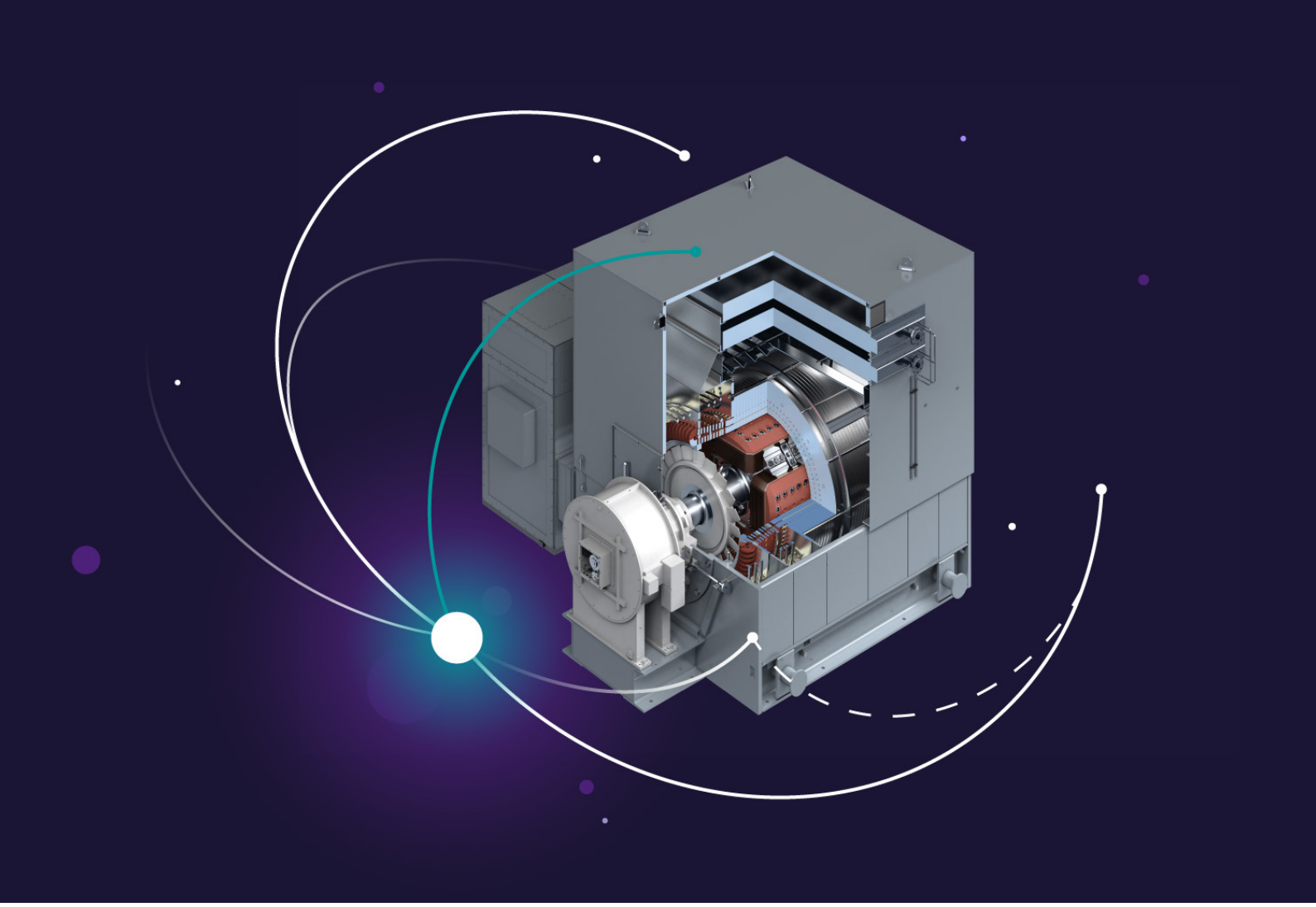


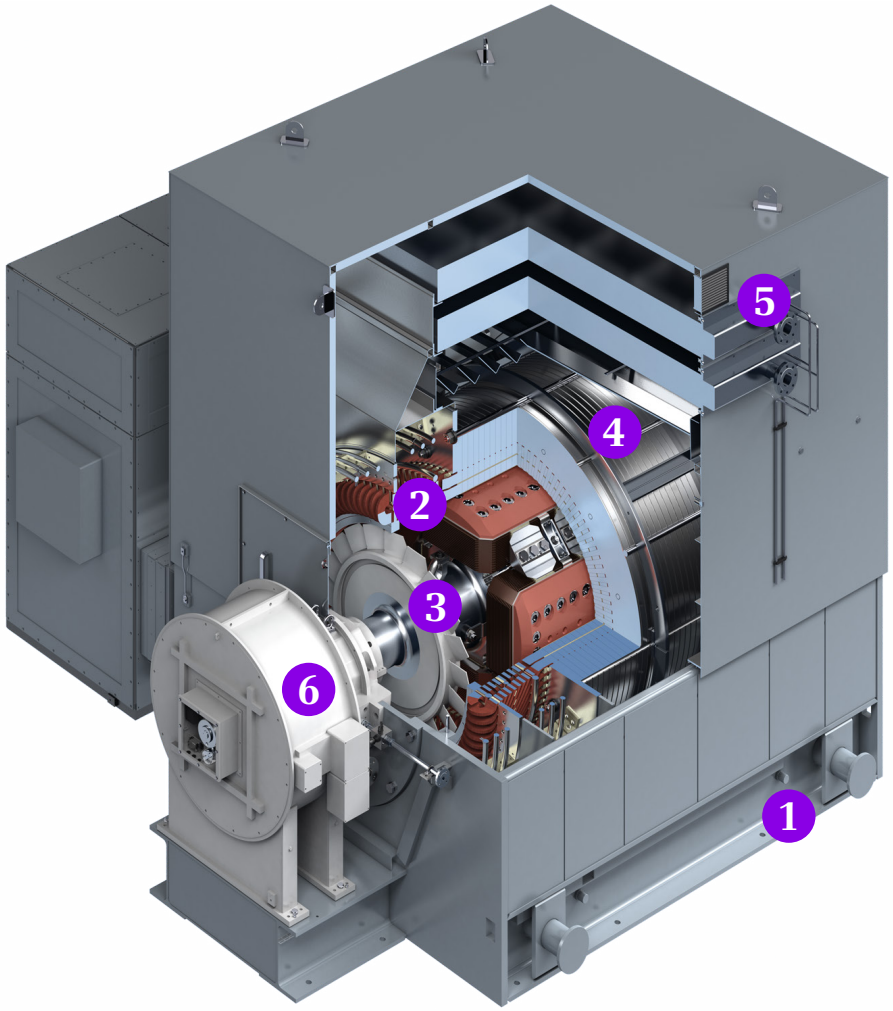
SGen-100A-4P air-cooled generator series

For gas and steam power applications from 25-85 MVA

siemens-energy.com/generators

SIEMENS energy

Proven four-pole air-cooled generators from our SGen-100A-4P series, are the answer for turbine generators in industrial plants. Our air-cooled generators are developed by using state-of-the-art methods. By working with special computer programs for calculation, design, and production, we can optimally match the generators to our customers' needs.



1 Welded casing

2 Stator winding and insulation
are form wound coils featuring Siemens Energy epoxy-mica insulation technology

3 Salient-pole rotor
With solid pole shoes

4 Stator core

5 Cooler
Implemented either in totally enclosed water-to-air, closed air-to-air or direct air-cooling systems

6 Brushless exciter set
With or without Permanent Magnet Generator (PMG)

Technical specifications SGen-100A-4P

	Frequency	Apparent power	Efficiency	Terminal voltage
SGen5-100A-4P	50 Hz	25-85 MVA	up to 98.5%	6.0 - 15.75 kV
SGen6-100A-4P	60 Hz	25-80 MVA	up to 98.5%	6.0 - 15.75 kV







Applications

Gas & steam power generation

- Our air-cooled generators are designed to fit all Siemens Energy steam and gas turbines, offering maximum flexibility for industrial steam power.
- With hydrogen powered turbines, a complete decarbonization of the power generation can be achieved.

Oil and gas application

- Special explosion protection solutions are offered for a broad variety of applications and the highest operational safety.
- Oil and gas power applications require generators with lowest possible weight, explosion protection solutions and stringent electrical standards.



Installation, operation & maintenance

Installation

- low installation costs
- short installation time
- footprint requires minimal space

Operation

- operational safety due to special explosion protection
- stator end winding system allows for thermal expansion and contraction during operation
- remains stable during load changes or flexible operation

Maintenance

- easy generator access to all relevant components for any required maintenance and service
- maintenance-free global vacuum pressure impregnated stator core and winding

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