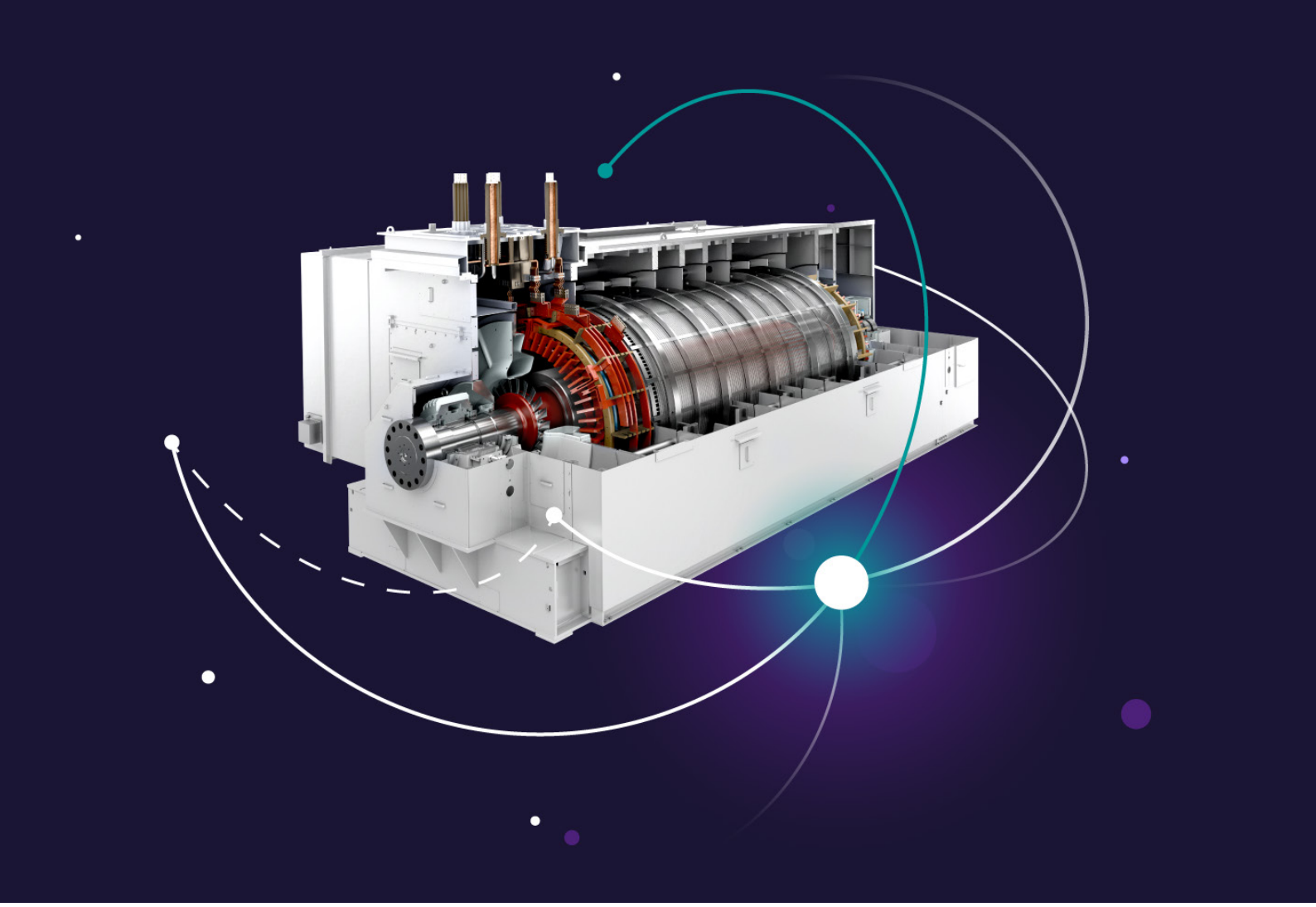


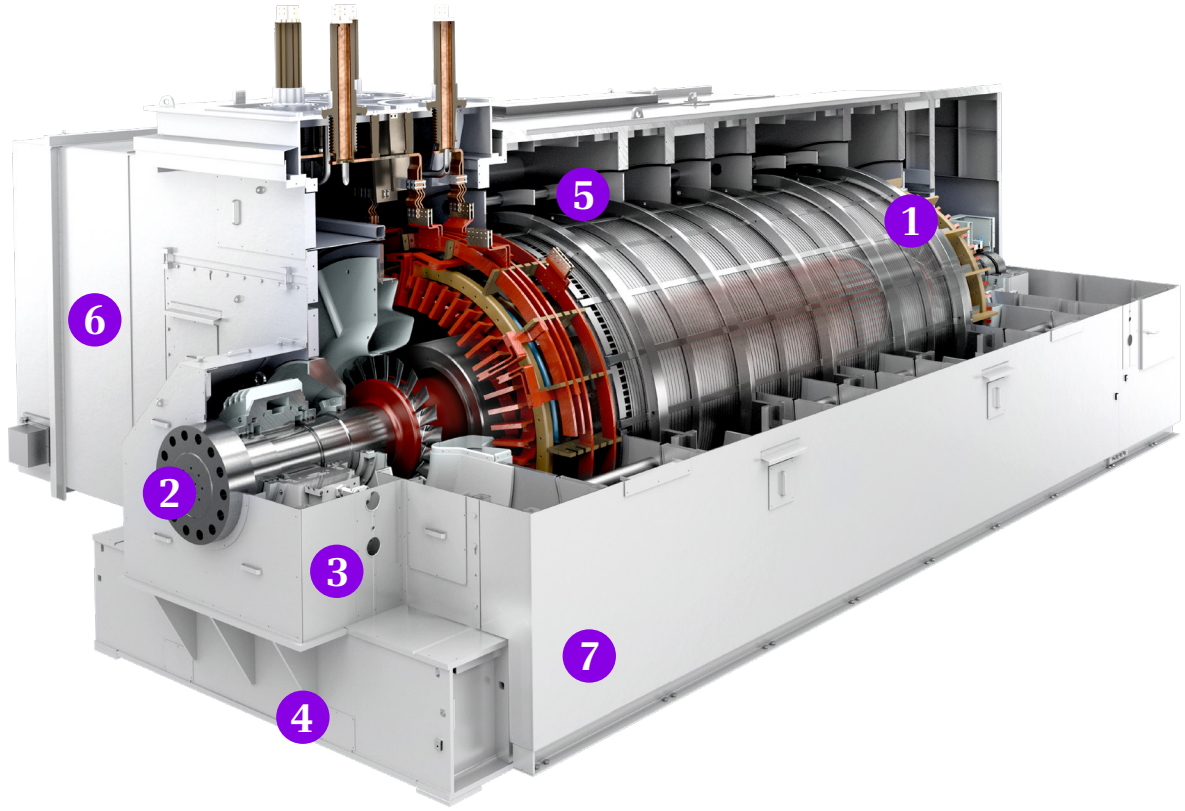
SGen-100A-2P air-cooled generator series

For gas and steam power applications from 25-370 MVA

siemens-energy.com/generators

SIEMENS energy

The SGen-100A-2P is part of the Siemens Energy Generator (SGen™) product line with enhanced performance. The air-cooled generators are developed by using state-of-the-art methods for flawless quality and precision. Our modular 'building block' approach allows Siemens Energy generators to share many features and components across the portfolio. This enables us to supply our customers with generators specially tailored to their requirements, making them reliable, efficient and easy-to-maintain.



1 Stator end winding system
Provides maximum rigidity and flexibility for cyclic thermal expansion

2 Rotor and winding design
Ensures low sensitivity to peaking operation and thermal cycling

3 Bearings
Service-friendly sleeve bearings

4 Vibration limits
Low shaft vibration and core vibration

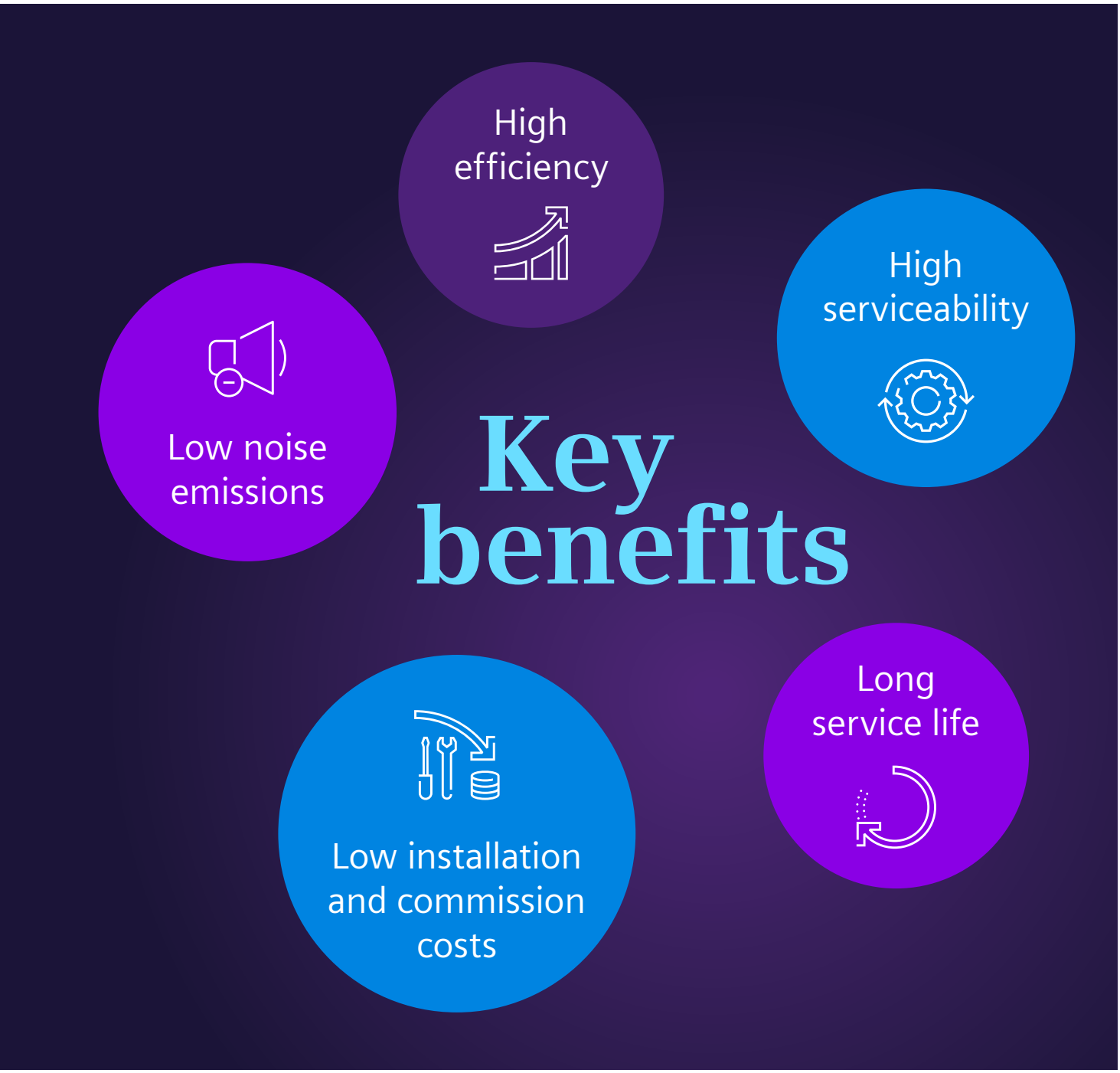
5 Enhanced ventilation scheme
Enhanced cooling airflow through patented ramped sub-slot design for uniform cooling distribution

6 Coolers
Flexible based on operational needs

7 Access points
Multiple locations for easy maintenance

Technical specifications SGen-100A-2P

	Frequency	Apparent power	Efficiency	Terminal voltage
SGen5-100A-2P	50 Hz	25-370 MVA	up to 98.9%	6.0 - 20 kV
SGen6-100A-2P	60 Hz	25-370 MVA	up to 98.9%	6.0 - 20 kV







Applications

Gas & steam power generation

- generators fit to most steam and gas turbines on the market for maximum flexibility
- with hydrogen powered turbines, a complete decarbonization of the power generation can be achieved

Synchronous Condenser

- solution for transmission grid stabilization with a high amount of power infeed from renewable sources
- influence on the stability of transmission networks, for example:
  - addition of renewables based power generation to the energy mix
  - the phase-out of power plants



Installation, operation & maintenance

Installation

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

Operation

- special explosion protection solution for operational safety
- stator end winding system allows for thermal expansion and contraction during operation
- rotor design ensures low sensitivity to peaking operation

Easy maintenance

- easy access to all relevant generator components for maintenance
- maintenance-free stator core

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