The SGen-3000W generator series integrates proven design and manufacturing technologies to deliver world-class performance, reliability and customer value. It expands our modular approach to high output levels requiring efficient hydrogen cooling. Our modular “building block” approach allows Siemens generators to share many features and components across the portfolio. With a water-cooled stator, the SGen-3000W series provides high operational flexibility and outstanding component robustness.

Key benefits

- High output capability
- Operational flexibility
- High reliability
- Small footprint
- Proven features and components
- ISO class zone-A

1. **Stator:** Fleet-proven design of water-cooled stator bars with hollow stainless steel conductors
2. **Rotor:** 10,000 start/stop cycles without rotor removal during operational life cycle
3. **Generator frame with integral coolers:** easy service and maintenance of axial coolers
4. **Shaft sealing:** low maintenance gland seals with operational track record
5. **Simple ventilation:** 1-stage axisymmetric blower with radially cooled rotor and stator
6. **Smaller footprint:** ~15% lower foundation loads
7. **Stator core:** low complexity due to common assembly across generator products

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Our water-/hydrogen-cooled generators provide the flexibility and durability to operate in today’s fluctuating grid environment. They can be coupled to other OEM turbines and meet environmental requirements as well as your individual needs.

**Technical specifications for the SGen-3000W generator series**

<table>
<thead>
<tr>
<th></th>
<th>Frequency</th>
<th>Apparent power</th>
<th>Efficiency</th>
<th>Design power factor</th>
<th>Terminal voltage</th>
<th>Design insulation class</th>
<th>Approx. weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGen5-3000W</td>
<td>50Hz</td>
<td>up to 1,300 MVA</td>
<td>Up to 99%</td>
<td>0.80</td>
<td>Up to 27 kV</td>
<td>Class F</td>
<td>Up to 425t</td>
</tr>
<tr>
<td>SGen6-3000W</td>
<td>60Hz</td>
<td>up to 1,300 MVA</td>
<td>Up to 99%</td>
<td>0.85</td>
<td>Up to 26 kV</td>
<td>Class F</td>
<td>Up to 390t</td>
</tr>
</tbody>
</table>

**SGen-3000W generator series: simple installation, flexible operation and easy maintenance**

**Simple installation:**
- Arrives on site with rotor and coolers installed
- Footprint requires minimal space
- Bolt-on static excitation system
- Full line of user-friendly auxiliaries

**High operational flexibility:**
- Design supports high ramp–up/down rates, frequent start/stop with low thermal mechanical stresses in stator windings
- Closed-loop water cooling less sensitive to water chemistry (no contact to copper)
- Automated auxiliaries with redundancies

**Easy maintenance:**
- Common components across portfolio improve availability of spare parts
- Digitalization packages available to equip and monitor generator health
- Easy generator access for any required maintenance or service

For more information, please contact our Customer Support Center.
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(Charges depending on provider)
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Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.