Gas turbines from 4 to 593 MW

The Siemens gas turbine range has been designed and tailored to help meet our customers’ challenges in a dynamic market environment.

Our models range from 4 to 593 MW, fulfilling the requirements of a wide spectrum of applications in terms of efficiency, reliability, flexibility, and environmental compatibility. The products offer low lifecycle costs and an excellent return on investment.
Siemens gas turbines overview

For more information, please click on a product name

General note:
All simple cycle and mechanical drive performance data in this document are gross values at ISO ambient conditions.
All combined cycle performance data in this document are net values at ISO ambient conditions.
Siemens HL-class gas turbines are paving the way to the next level of efficiency and performance. The evolutionary development step, derived from proven Siemens H-class technology, combines a series of new but already tested technologies like super-efficient internal cooling features for blades and vanes and an advanced combustion system to increase firing temperature.

The result: A technology carrier to the next level with a combined cycle efficiency beyond 63% and a midterm goal of even more.

The new Siemens HL-class consists of three engines: SGT5-8000HL, SGT5-9000HL and SGT6-9000HL.

- Derived from proven Siemens H-class technology
- Pushing efficiency and performance to the next level
- Competitive service model with 33,000 Equivalent Base Hours (EBH) / 1,250 Equivalent Starts (ES)

With an combined cycle efficiency of more than 63%, the HL-class gas turbines are paving the way to the next level.
The SGT5-8000H offers outstanding performance and high flexibility. With a gross power output of 450 MW, and a quick ramp-up from start to full load, the turbine offers low lifecycle costs and helps to meet fluctuating power demands.

The turbine is the core component of highly efficient gas-fired power plants, designed for 665 MW at 61% efficiency in combined cycle operation.

With more than 1 million fired hours, the SGT-8000H series provides mature technology with verified reliability and availability.

- Outstanding performance
- High flexibility, short start-up times
- Proven in commercial operations

The SGT5-8000H achieves a high efficiency of 61% in combined cycle operations.

**SGT5-8000H**
Heavy-duty gas turbine

**Power generation**
- Frequency: 50 Hz
- Gross efficiency: >41%
- Exhaust temperature: 630°C (1,166°F)

Düsseldorf Lausward, Germany

Power output: 450 MW
The **SGT6-8000H** offers outstanding performance and high flexibility. The air-cooled turbine with a gross power output of **310 MW** is designed for simple combined cycle integration and short start-up times.

The turbine is the core component of highly efficient gas-fired power plants, designed for 460 MW at 61% efficiency in combined cycle operation.

With more than **1 million fired hours**, the SGT-8000H series provides mature technology with verified reliability and availability.

- Outstanding performance
- High flexibility, short start-up times
- Proven in commercial operations

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**SGT6-8000H**

**Heavy-duty gas turbine**

**Power output**: 310 MW

**Power generation**

- Frequency: 60 Hz
- Gross efficiency: >40%
- Exhaust temperature: 645°C (1,193°F)
The proven SGT5-4000F gas turbine has a robust design with internal cooling air passages for trusted long-term operation and fast start-up capability. The advanced annular combustion chamber with individually replaceable heat shields allows for easy and fast walk-in maintenance. Hydraulic Clearance Optimization (HCO) reduces clearance losses to increase the gas turbine efficiency and minimize degradation at start-up and shut down.

Today, more than 350 turbines have been sold. The installed fleet has accumulated an impressive fleet experience of over 17 million equivalent operating hours, and a fleet reliability of more than 99%.

- Proven design, large fleet experience
- Easy maintenance, high availability
- High operational flexibility

SGT5-4000F
Heavy-duty gas turbine

**Power generation**
- Frequency: 50 Hz
- Gross efficiency: 41.0%
- Exhaust temperature: 599° C (1,110° F)

Power output: 329 MW
The SGT6-5000F gas turbine offers economical power generation with fast start-up for peak, intermediate, or base load duty. It achieves peak values for reliability and continuous operation with highest performance values in its class.

Today, more than 380 turbines have been sold. The installed fleet has accumulated more than 15 million equivalent operating hours, with a fleet reliability of over 99%.

- Highest power output for 60 Hz F-class
- Fast start-up and load changing capabilities
- Low emissions with an NOx emission of ≤9 ppmvd on gas and ≤25 ppmvd on oil
The SGT5-2000E gas turbine is a proven, robust engine for the 50 Hz market which is used in simple cycle or combined cycle processes with or without combined heat and power. It is suitable for all load ranges, including peak load.

The SGT5-2000E offers outstanding fuel flexibility. It can be fired with low calorific gases or gases containing CO₂, H₂S and N₂, as well as with crude oil and other liquid fuels with high viscosity. It provides low NOx emissions, even in the part-load range.

Today, around 300 turbines have been sold, and additionally, more than 270 units under license. Our installed fleet has accumulated over 21 million equivalent operating hours. The SGT-2000E series fleet’s overall best-in-class reliability exceeds 99.5%.

- Best-in-class reliability
- High operational and fuel flexibility
- Easy maintenance

Technical data sheet | Key features
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**SGT5-2000E**
Heavy-duty gas turbine

Power output: 187 MW

**Power generation**
- Frequency: 50 Hz
- Gross efficiency: 36.5%
- Exhaust temperature: 536°C (997°F)
The SGT6-2000E gas turbine is a proven, robust engine for the 60 Hz market which is used in simple cycle or combined cycle processes with or without combined heat and power supply. It is suitable for all load ranges, including peak load.

The SGT6-2000E offers outstanding fuel flexibility. It can be fired with low calorific gases or gases containing CO₂, H₂S and N₂, as well as with crude oil and other liquid fuels with high viscosity. It provides low NOx emissions, even in the part-load range.

Today, more than 100 turbines have been sold, resulting in a fleet experience of over 9 million equivalent operating hours. The SGT-2000E series fleet’s overall best-in-class reliability constantly exceeds 99.5%.

- Best-in-class reliability
- High operational and fuel flexibility
- Easy maintenance

**SGT6-2000E**  
Heavy-duty gas turbine

**Power generation**
- Frequency: 60 Hz
- Gross efficiency: 35.4%
- Exhaust temperature: 532° C (990° F)

Power output: 117 MW
The SGT-800 industrial gas turbine offers broad flexibility in fuels, operating conditions, maintenance concepts, package solutions, and ratings. The excellent efficiency and steam-raising capability make it outstanding in cogeneration and combined cycle installations. The SGT-800-based power plant, designed for flexible operation, is perfectly suited as grid support.

The SGT-800 combines a simple, robust design, for high reliability and easy maintenance, with high efficiency and low emissions.

With more than 370 units sold and over 7 million operating hours, the SGT-800 is an excellent choice for industrial power generation or oil and gas applications.

- Proven reliability
- Flexible solutions
- Excellent performance

SGT-800 core engine is available with different ratings.

**Power generation**

- Frequency: 50/60 Hz
- Gross efficiency: 39.4 – 41.1%
- Exhaust temperature: 560 – 596°C (1,041 – 1,104°F)
- Exhaust mass flow: 124.7 – 135.5 kg/s

**SCC-800 2x1 combined cycle power plant**

- Net plant output: 143.9 – 180 MW(e)
- Net plant efficiency: 57.8 – 60%
With **maximized uptime**, **top-class performance**, and a **low environmental footprint** offering the customer high lifetime profitability, the **SGT-750** industrial gas turbine is a perfect choice for the oil and gas industry as well as industrial power generation. The modular and flexible engine enables onshore or offshore applications, mechanical drive or heat and power. It combines a robust, reliable design with high efficiency and low emissions.

The SGT-750 offers broad flexibility with **different rating options** due to excellent part load capability. When running on lower load the maintenance intervals will be extended, low emissions can be guaranteed while the efficiency still is kept over 40%.

The SGT-750 has a track record of **successful performance** after years in operation and verified results in various applications. Units are sold for use in both power generation and compressor applications such as pipelines and liquefied natural gas (LNG).

- Maximized uptime
- High efficiency
- Low emissions

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**SGT-750**

**Industrial gas turbine**

**Power generation**

- Frequency: 50/60 Hz
- Gross efficiency: 40.3%
- Exhaust temperature: 468°C (875°F)
- Exhaust mass flow: 115.4 kg/s

**Mechanical drive applications**

- Efficiency: 40.4 – 41.6%
- Exhaust temperature: 439 – 468°C (821 – 875°F)
- Exhaust mass flow: 107.5 – 115.4 kg/s

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SGT-750 core engine with a free high-speed power turbine

SGT-750 combined heat and power plant in Altamira, Mexico

**Technical data sheet**
Thanks to its wide fuel range capability and design features, the SGT-700 is a perfect choice for several onshore applications: Industrial power generation, oil and gas power generation, and mechanical drive applications.

It performs well in combined cycle plants, and combined heat and power plants.

The SGT-700 gas turbine is an evolution of the proven SGT-600 and is specifically designed for higher power output. It offers easy on-site or off-site maintenance, and operates with a wide range of gaseous and liquid fuels on Dry Low Emission (DLE).

More than 85 units have been sold with over 2 million operating hours. The fleet-leading gas turbine has 100,000 operating hours.

- Robust, reliable design
- High fuel flexibility
- Low emissions

Maintainable, reliable, and robust twin-shaft design for mechanical drive and power generation

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**Technical data sheet**

**SGT-700**

**Industrial gas turbine**

**Power generation**

- Frequency: 50/60 Hz
- Gross efficiency: 37.2%
- Exhaust temperature: 533°C (991°F)
- Exhaust mass flow: 95.0 kg/s

**Mechanical drive applications**

- Efficiency: 38.2%
- Exhaust temperature: 533°C (991°F)
- Exhaust mass flow: 95.0 kg/s

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Three SGT-700 packages for mechanical drive
High reliability and availability in combination with good fuel flexibility and third-generation DLE makes the SGT-600 a perfect choice for several onshore applications: Industrial power generation, oil and gas power generation, and mechanical drive applications. Within the IPG applications, the turbine performs well in combined heat and power plants, and combined cycle plants.

The industrial gas turbine combines a robust, reliable design with high fuel flexibility, and low emissions.

More than 350 units have been sold with over 10 million operating hours. The fleet-leading gas turbine has 190,000 operating hours.

- Robust, reliable design
- High fuel flexibility
- Low emissions

Maintainable, reliable, and robust twin-shaft design for mechanical drive and power generation

**SGT-600**
**Industrial gas turbine**

**Power generation**
- Frequency: 50/60 Hz
- Gross efficiency: 33.6%
- Exhaust temperature: 543°C (1,009°F)
- Exhaust mass flow: 81.3 kg/s

**Mechanical drive applications**
- Efficiency: 34.6%
- Exhaust temperature: 543°C (1,009°F)
- Exhaust mass flow: 81.3 kg/s
The SGT-400 is a twin-shaft gas turbine available in different configurations and power ratings to support power generation and mechanical drive applications from 10 – 15 MW. The twin-shaft arrangement allows for commonality of parts in mixed-duty installations.

The gas turbine offers the highest efficiency in its power class, incorporating the latest aerodynamic and combustion technologies.

With about 20 years of operating experience, the SGT-400 is proven in both offshore and onshore applications. Over 390 units have been sold with more than 5 million hours operating experience. The fleet leader has accumulated more than 120,000 operating hours.

- Latest aerodynamic and combustion technology
- Suitable for all climates, onshore and offshore
- High power-to-weight ratio

The SGT-400 is available as a factory-assembled package.

**SGT-400**

**Industrial gas turbine**

**Power generation:** 10.4 – 14.3 MW(e)

**Mechanical drive:** 10.8 – 14.9 MW

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**Technical data sheet**

**Power generation**

- Frequency: 50/60 Hz
- Gross efficiency: 34.8 – 35.4%
- Exhaust temperature: 508 – 555°C (946 – 1,031°F)
- Exhaust mass flow: 33.8 – 44.0 kg/s

**Mechanical drive applications**

- Efficiency: 36.2 – 36.8%
- Exhaust temperature: 508 – 555°C (946 – 1,031°F)
- Exhaust mass flow: 33.8 kg/s – 44.0 kg/s

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**Introduction**  
**Gas turbine overview**  
**References**
The SGT-300 industrial gas turbine has a rugged industrial design that enables high efficiency, reliability, and excellent emissions performance in a broad spectrum of applications for both power generation and mechanical drive.

The gas turbine is a proven unit for all electrical power generation and cogeneration applications. It operates on a wide range of gaseous and liquid fuels. The compact arrangement, on-site or off-site maintainability, and inherent reliability of the SGT-300 make it an ideal gas turbine for the demanding oil and gas industry.

Over 150 units have been sold, with more than 5.6 million equivalent operating hours.

- Low maintenance requirements
- Low emissions
- Single-shaft version for power generation, twin-shaft version for mechanical drive applications

Technical data sheet

The SGT-300 twin-shaft version is used for mechanical drive

**SGT-300 Industrial gas turbine**

**Power generation**
- Frequency: 50/60 Hz
- Gross efficiency: 30.6%
- Exhaust temperature: 542°C (1,008°F)
- Exhaust mass flow: 30.2 kg/s

**Mechanical drive applications**
- Efficiency: 34.8 – 35.4%
- Exhaust temperature: 496 – 512°C (925 – 954°F)
- Exhaust mass flow: 29.7 – 30.5 kg/s
The **SGT-100 industrial gas turbine** is a proven unit for all electrical power generation and mechanical drive applications. The compact arrangement, on-site or off-site maintainability, and inherent reliability makes it an ideal gas turbine for the demanding **oil and gas industry**.

The gas turbine has a rugged industrial design that enables **high efficiency** and **excellent emissions performance** on a wide range of gaseous and liquid fuels.

More than 420 units have been sold with more than 25 million operating hours. The lead package has over 180,000 equivalent hours of operation.

- Robust and reliable product
- Wide range of gaseous and liquid fuels
- Single-shaft version for power generation or twin-shaft version for mechanical drive applications

**Technical data sheet**

The SGT-100 combines advanced technology with robust construction

**SGT-100**

*Industrial gas turbine*

**Power generation**: 5.05/5.4 MW(e)
**Mechanical drive**: 5.7 MW

**Power generation**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross efficiency</td>
<td>30.2 – 31.0%</td>
</tr>
<tr>
<td>Exhaust temperature</td>
<td>541 – 545° C (1006 –1013° F)</td>
</tr>
<tr>
<td>Exhaust mass flow</td>
<td>19.5 – 20.9 kg/s</td>
</tr>
</tbody>
</table>

**Mechanical drive applications**

<table>
<thead>
<tr>
<th>Efficiency</th>
<th>33.2%</th>
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</thead>
<tbody>
<tr>
<td>Exhaust temperature</td>
<td>543° C (1009° F)</td>
</tr>
<tr>
<td>Exhaust mass flow</td>
<td>19.7 kg/s</td>
</tr>
</tbody>
</table>
Designed for industrial use in power generation and mechanical drive applications, the SGT-A65 has established a new benchmark for power output, fuel economy, and cost savings.

The gas turbine is highly flexible, offering high power and efficiency with minimal drop-off at part-load and reduced speed conditions. It is available with Wet Low Emission (WLE) and DLE combustion systems.

The SGT-A65 is proven in many different environments and applications.

More than 115 units have been sold with over 1.8 million fleet hours experience. The fleet leader has accumulated more than 110,000 EOHs.

- Most powerful, pure aeroderivative gas turbine in its class
- Flexible with high cyclic life and fast starts
- Modular package design to allow for quick installation and maintenance in the field

The SGT-A65 can cold-start to full power in less than 7 minutes and additionally has high cyclic life

**SGT-A65**

(Industrial Trent 60)

Aeroderivative gas turbine

**Power generation**

- Frequency: 50/60 Hz
- Gross efficiency: 41.3 – 43.8%
- Exhaust temperature: 431 – 447 °C (808 – 837 °F)
- Exhaust mass flow: 165 – 178 kg/s

**Mechanical drive applications**

- Efficiency: 43.4 – 43.6%
- Exhaust temperature: 441 – 447 °C (826 – 837 °F)
- Exhaust mass flow: 157.7 – 162.8 kg/s

Power generation: 59.6 – 70.8 MW(e)

Mechanical drive: 57.9 – 62.3 MW
A dependable supply of electricity is at the very base of good living standards and economic growth. Several areas of the world continue to require the fast deployment of power solutions to quickly support a damaged or inadequate infrastructure.

With site installation in less than 2 weeks, the SGT-A45 mobile gas turbine unit offers a cost-effective, dependable solution to these needs.

Based on proven aeroderivative gas turbine technology, the SGT-A45 achieves the highest power density and fuel efficiency of all mobile power plants on the market. It can operate at either 50 Hz or 60 Hz and offers a highly flexible solution for a wide range of applications.

- The world’s most powerful and fuel-efficient mobile gas turbine
- Great flexibility in operation
- Highly mobile by land, air, sea
- Performance optimized for hot climates

The SGT-A45 mobile unit is offered with complete fast-track power plant solutions.

**SGT-A45**

**Aeroderivative gas turbine**

**Power generation**

- Frequency: 50/60 Hz
- Gross efficiency: 38.9 – 40.4%
- Exhaust temperature: 477 – 483 °C (891 – 934 °F)
- Exhaust mass flow: 126 – 127 kg/s

**Power generation: up to 44.0 MW(e)**

Note: Nominal performance shown. Performance guarantees are only provided in individual project proposals based on specifications given. Nominal performance shown referred to sea level, 60% relative humidity, natural gas fuel, zero installation losses.
With class-leading reliability and availability, the SGT-A35 is a proven, dependable choice in power generation and mechanical drive applications. It is qualified to meet the stringent standards of the oil and gas industry in both onshore and offshore service.

The aeroderivative gas generator is highly tolerant of transient excursions and challenging mission cycles, and can be easily exchanged at site, reducing maintenance downtime and cost. Both conventional and DLE combustion systems are available, including dual fuel capability.

In a 40-year evolution, the SGT-A35 has accumulated over 38 million equivalent operating hours, with over 800 units sold.

- Proven track record in the oil and gas industry
- Several variants to meet different power needs
- Lightweight, compact, modular package design to maximize power density

SGT-A35
(Industrial RB211)
Aeroderivative gas turbine

### Power generation
- Frequency: 50/60 Hz
- Gross efficiency: 36.4 – 39.7%
- Exhaust temperature: 489 – 510°C (912 – 950°F)
- Exhaust mass flow: 91.0 – 111.0 kg/s

### Mechanical drive applications
- Efficiency: 37.3 – 40.4%
- Exhaust temperature: 488 – 510°C (910 – 950°F)
- Exhaust mass flow: 91.0 – 109.5 kg/s
Based on proven aeroderivative design, the **SGT-A05** delivers high efficiency and outstanding reliability for power generation applications like cogeneration and emergency power. The gas turbine offers rugged, easy-to-maintain performance due to features such as on-engine mounted auxiliary equipment.

The gas turbine engine is designed to operate on a **wide variety of fuels**. The fuel system operations include dual fuel, steam, and water injection. DLE technology is also available.

More than **1,690 SGT-A05 gas turbines** have been sold for industrial use to more than **500 customers in 55 countries**, accumulating an impressive 127 million operating hours since its introduction in 1963.

- More than 1,690 gas turbines supplied
- Full power available within 60 seconds
- High electrical and cycle efficiency

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The SGT-A05 has black start and hot start capability. Full power is available within 60 seconds.

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**SGT-A05**  
*(Industrial 501-K)*  
**Aeroderivative gas turbine**

**Power generation**

- **Frequency**: 50/60 Hz
- **Gross efficiency**: 29.7 – 33.2%
- **Exhaust temperature**: 494 – 560°C (921 – 1,040°F)
- **Exhaust mass flow**: 15.4 – 21.4 kg/s

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**Power station at Mitchelstown, Ireland**

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**Technical data sheet**

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**Introduction**  
**Gas turbine overview**  
**References**
Siemens gas turbines are operating in more than 60 countries. We provide proven technology with over 7,000 installed heavy-duty, industrial and aeroderivative gas turbines.
<table>
<thead>
<tr>
<th>Power generation (metric units)</th>
<th>Power generation (imperial units)</th>
<th>Mechanical drive (metric units)</th>
<th>Mechanical drive (imperial units)</th>
</tr>
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<tbody>
<tr>
<td><strong>Sgt-800 (62 MW)</strong></td>
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</tr>
<tr>
<td>62.5 MW(e) 50/60 Hz</td>
<td>41.1%</td>
<td>8,759 I/jKWh 6,600 rpm</td>
<td>21.1 %</td>
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<tr>
<td><strong>Sgt-800 (57 MW)</strong></td>
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<tr>
<td>57.0 MW(e) 50/60 Hz</td>
<td>40.1%</td>
<td>8,970 I/jKWh 6,600 rpm</td>
<td>22.0 %</td>
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<td><strong>Sgt-800 (54 MW)</strong></td>
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<tr>
<td>54.0 MW(e) 50/60 Hz</td>
<td>39.1%</td>
<td>9,206 I/jKWh 6,600 rpm</td>
<td>21.6 %</td>
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<tr>
<td><strong>Sgt-800 (50 MW)</strong></td>
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<tr>
<td>49.9 MW(e) 50/60 Hz</td>
<td>39.4%</td>
<td>9,147 I/jKWh 6,600 rpm</td>
<td>19.8 %</td>
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<tr>
<td><strong>Sgt-750</strong></td>
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<tr>
<td>39.8 MW(e) 50/60 Hz</td>
<td>40.3%</td>
<td>8,922 I/jKWh 6,600 rpm</td>
<td>24.3 %</td>
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<tr>
<td><strong>Sgt-700</strong></td>
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<tr>
<td>32.8 MW(e) 50/60 Hz</td>
<td>37.2%</td>
<td>9,675 I/jKWh 6,500 rpm</td>
<td>18.7 %</td>
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<tr>
<td><strong>Sgt-600</strong></td>
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<tr>
<td>24.5 MW(e) 50/60 Hz</td>
<td>33.6%</td>
<td>10,720 I/jKWh 7,700 rpm</td>
<td>14.0 %</td>
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<tr>
<td><strong>Sgt-400 (15 MW)</strong></td>
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<tr>
<td>14.3 MW(e) 50/60 Hz</td>
<td>35.4%</td>
<td>10,178 I/jKWh 9,500 rpm</td>
<td>18.9 %</td>
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<tr>
<td><strong>Sgt-400 (13 MW)</strong></td>
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<tr>
<td>12.9 MW(e) 50/60 Hz</td>
<td>34.8%</td>
<td>10,355 I/jKWh 9,500 rpm</td>
<td>16.8 %</td>
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<tr>
<td><strong>Sgt-400 (11 MW)</strong></td>
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<tr>
<td>10.4 MW(e) 50/60 Hz</td>
<td>34.8%</td>
<td>10,342 I/jKWh 11,500 rpm</td>
<td>16.0 %</td>
</tr>
<tr>
<td><strong>Sgt-300</strong></td>
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<tr>
<td>7.9 MW(e) 50/60 Hz</td>
<td>30.6%</td>
<td>11,773 I/jKWh 14,010 rpm</td>
<td>13.7 %</td>
</tr>
<tr>
<td><strong>Sgt-100 (5.4 MW)</strong></td>
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<tr>
<td>5.4 MW(e) 50/60 Hz</td>
<td>31.0%</td>
<td>11,612 I/jKWh 17,384 rpm</td>
<td>15.6 %</td>
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<tr>
<td><strong>Sgt-100 (5.1 MW)</strong></td>
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</tr>
<tr>
<td>5.1 MW(e) 50/60 Hz</td>
<td>30.2%</td>
<td>11,913 I/jKWh 17,384 rpm</td>
<td>14.0 %</td>
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<tr>
<td><strong>Sgt-A65 50 Hz DLE with ISI</strong></td>
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</tr>
<tr>
<td>61.9 MW(e) 50 Hz</td>
<td>43.4%</td>
<td>8,307 I/jKWh 3,000 rpm</td>
<td>38.1 %</td>
</tr>
<tr>
<td><strong>Sgt-A65 50 Hz DLE with ISI</strong></td>
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<td></td>
</tr>
<tr>
<td>65.9 MW(e) 50 Hz</td>
<td>43.8%</td>
<td>8,228 I/jKWh 3,000 rpm</td>
<td>39.6 %</td>
</tr>
<tr>
<td><strong>Sgt-A65 60 Hz DLE with ISI</strong></td>
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<td></td>
</tr>
<tr>
<td>59.6 MW(e) 60 Hz</td>
<td>43.2%</td>
<td>8,330 I/jKWh 3,600 rpm</td>
<td>36.1 %</td>
</tr>
<tr>
<td><strong>Sgt-A65 60 Hz DLE with ISI</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64.9 MW(e) 60 Hz</td>
<td>43.3%</td>
<td>8,311 I/jKWh 3,600 rpm</td>
<td>38.0 %</td>
</tr>
<tr>
<td><strong>Sgt-A65 60 Hz WLE with ISI</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>67.4 MW(e) 60 Hz</td>
<td>41.3%</td>
<td>8,724 I/jKWh 3,000 rpm</td>
<td>39.9 %</td>
</tr>
<tr>
<td><strong>Sgt-A65 60 Hz WLE with ISI</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>70.8 MW(e) 60 Hz</td>
<td>41.4%</td>
<td>8,869 I/jKWh 3,600 rpm</td>
<td>39.3 %</td>
</tr>
<tr>
<td><strong>Sgt-A45 50 Hz (at 15 °C ambient)</strong></td>
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<td></td>
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<tr>
<td>41.0 MW(e) 50 Hz</td>
<td>38.9%</td>
<td>9,260 I/jKWh 3,000 rpm</td>
<td>27.7 %</td>
</tr>
<tr>
<td><strong>Sgt-A45 50 Hz (at 30 °C ambient)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>39.3 MW(e) 50 Hz</td>
<td>38.3%</td>
<td>9,405 I/jKWh 3,000 rpm</td>
<td>26.7 %</td>
</tr>
<tr>
<td><strong>Sgt-A45 60 Hz (at 15 °C ambient)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44.0 MW(e) 60 Hz</td>
<td>40.4%</td>
<td>8,944 I/jKWh 3,600 rpm</td>
<td>27.6 %</td>
</tr>
<tr>
<td><strong>Sgt-A45 60 Hz (at 30 °C ambient)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>39.6 MW(e) 60 Hz</td>
<td>39.4%</td>
<td>9,137 I/jKWh 3,600 rpm</td>
<td>25.8 %</td>
</tr>
<tr>
<td><strong>Sgt-A35 (GT30 38 MW) 50 Hz</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36.6 MW(e) 50 Hz</td>
<td>38.7%</td>
<td>9,298 I/jKWh 3,000 rpm</td>
<td>25.4 %</td>
</tr>
<tr>
<td><strong>Sgt-A35 (GT34 30 MW) 50 Hz</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32.2 MW(e) 50 Hz</td>
<td>37.5%</td>
<td>9,611 I/jKWh 3,000 rpm</td>
<td>22.9 %</td>
</tr>
<tr>
<td><strong>Sgt-A35 (GT30 34 MW) DLE 50 Hz</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31.9 MW(e) 50 Hz</td>
<td>37.3%</td>
<td>9,644 I/jKWh 3,000 rpm</td>
<td>22.6 %</td>
</tr>
<tr>
<td><strong>Sgt-A35 (GT30 38 MW) 60 Hz</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37.4 MW(e) 60 Hz</td>
<td>39.7%</td>
<td>9,074 I/jKWh 3,600 rpm</td>
<td>25.0 %</td>
</tr>
<tr>
<td><strong>Sgt-A35 (GT30 34 MW) 60 Hz</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33.2 MW(e) 60 Hz</td>
<td>38.5%</td>
<td>9,362 I/jKWh 3,600 rpm</td>
<td>22.7 %</td>
</tr>
<tr>
<td><strong>Sgt-A35 (GT30 34 MW) DLE 60 Hz</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32.5 MW(e) 60 Hz</td>
<td>38.3%</td>
<td>9,397 I/jKWh 3,600 rpm</td>
<td>22.3 %</td>
</tr>
<tr>
<td><strong>Sgt-A35 (GT61) DLE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32.1 MW(e) 50/60 Hz</td>
<td>39.3%</td>
<td>9,199 I/jKWh 4,800 rpm</td>
<td>21.6 %</td>
</tr>
<tr>
<td><strong>Sgt-A35 (GT62) DLE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29.9 MW(e) 50/60 Hz</td>
<td>37.5%</td>
<td>9,589 I/jKWh 4,800 rpm</td>
<td>21.7 %</td>
</tr>
<tr>
<td><strong>Sgt-A35 (GT62) DLE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27.2 MW(e) 50/60 Hz</td>
<td>36.4%</td>
<td>9,904 I/jKWh 4,800 rpm</td>
<td>20.6 %</td>
</tr>
<tr>
<td><strong>Sgt-A50 (KB77HE)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.8 MW(e) 50/60 Hz</td>
<td>33.2%</td>
<td>10,848 I/jKWh 14,600 rpm</td>
<td>14.1 %</td>
</tr>
<tr>
<td><strong>Sgt-A50 (KB75S)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.4 MW(e) 50/60 Hz</td>
<td>32.3%</td>
<td>11,152 I/jKWh 14,600 rpm</td>
<td>13.9 %</td>
</tr>
<tr>
<td><strong>Sgt-A50 (KBSS5)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.0 MW(e) 50/60 Hz</td>
<td>29.7%</td>
<td>12,137 I/jKWh 14,200 rpm</td>
<td>10.3 %</td>
</tr>
</tbody>
</table>

**Notes:**
- **Power output** is given in MW.
- **Frequency** is given in Hz.
- **Gross efficiency** is given in %.
- **Heat rate** is given in kJ/kWh.
- **Turbine speed** is given in rpm.
- **Pressure ratio** is given as a ratio.
- **Exhaust mass flow** is given in kg/s.
- **Exhaust temperature** is given in °C.
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Article-No. PGDG-B10006-06-7600
Dispo 05400 BR 0219

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