We power the world with innovative gas engines

Siemens gas engine portfolio
Gas engines from 190 to 2,065 kW

The Siemens gas engine range has been designed and tailored to help meet our customers' challenges in a dynamic market environment. Our models range from 190 to 2,065 kW, 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 of investment.

Gas engine models:

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Output</th>
<th>Minimum Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGE-100EM</td>
<td>2,065 kW</td>
<td>2,065 kW</td>
</tr>
<tr>
<td>SGE-86EM</td>
<td>2,065 kW</td>
<td>2,065 kW</td>
</tr>
<tr>
<td>SGE-56HM</td>
<td>1,040 kW</td>
<td>1,040 kW</td>
</tr>
<tr>
<td>SGE-42HM</td>
<td>520 kW</td>
<td>520 kW</td>
</tr>
<tr>
<td>SGE-24HM</td>
<td>870 kW</td>
<td>870 kW</td>
</tr>
<tr>
<td>SGE-56SR</td>
<td>750 kW</td>
<td>750 kW</td>
</tr>
<tr>
<td>SGE-48SR</td>
<td>562 kW</td>
<td>562 kW</td>
</tr>
<tr>
<td>SGE-36SR</td>
<td>375 kW</td>
<td>375 kW</td>
</tr>
<tr>
<td>SGE-24SR</td>
<td>281 kW</td>
<td>281 kW</td>
</tr>
<tr>
<td>SGE-18SR</td>
<td>1,055 kW</td>
<td>1,055 kW</td>
</tr>
<tr>
<td>SGE-56SM</td>
<td>725 kW</td>
<td>725 kW</td>
</tr>
<tr>
<td>SGE-48SM</td>
<td>550 kW</td>
<td>550 kW</td>
</tr>
<tr>
<td>SGE-36SM</td>
<td>360 kW</td>
<td>360 kW</td>
</tr>
<tr>
<td>SGE-24SM</td>
<td>275 kW</td>
<td>275 kW</td>
</tr>
<tr>
<td>SGE-18SM</td>
<td>560 kW</td>
<td>560 kW</td>
</tr>
<tr>
<td>SGE-56SL</td>
<td>561 kW</td>
<td>561 kW</td>
</tr>
<tr>
<td>SGE-48SL</td>
<td>418 kW</td>
<td>418 kW</td>
</tr>
<tr>
<td>SGE-36SL</td>
<td>281 kW</td>
<td>281 kW</td>
</tr>
<tr>
<td>SGE-24SL</td>
<td>190 kW</td>
<td>190 kW</td>
</tr>
</tbody>
</table>

Note: Siemens GGT gas turbine efficiency published at 18th June 2018. Mechanical power of the SL Series includes Standby and Prime app for all the engines range for 56SL and 56SR.
Siemens best-in-class, high-efficiency, low-emission gas engines and gensets are designed for various applications such as power generation, cogeneration, and waste to energy. These engines are suitable for a broad range of commercial, industrial and municipal uses with long service intervals, easy maintenance and low fuel consumption.

Table of contents

S Series gas engines 7
H Series gas engines 21
E Series gas engines 27
Containers 32
Performance data overview 34
SL- Gas engines:
A robust, reliable and fuel flexible power generation
• Mechanical power output: from 190 to 1,150 kWb (1,200, 1,500 and 1,800 rpm)
• Powered by natural gas, landfill and sewage gas, flare and well gas, syngas
• Proven reliable and robust design
• Fast start availability
• Fuel flexibility
• Fuel blending availability
• Eco friendly
• Cost efficient implementation and service
• Load acceptance great flexibility
• Best in class global efficiency

SL- Gas engines:
SGE-18SL
SGE-24SL
SGE-36SL
SGE-48SL
SGE-56SL
The SL gas engines offer systems for a large variety of applications as Cogeneration/Trigeneration, Sewage/landfills/digestion processes for utilities and public buildings, and different kind of industries: textile, cement, food processing, … as well as greenhouses.

Also is able to operate with a low quality gases, flare gas and syngas from a gasification process.

### Applications

- Power generation (e.g., TIP, ESP, PRP, …)
- CHP and Trigeneration
- Waste to power
- Marine applications
- Mechanical drive (for pump driving)

### References

- Universities
  - Wesleyan (USA)
  - Wolverhampton (UK)
- Utilities (Landfill, sewage plants)
  - ETE (Brazil)
  - Johannesburg (South Africa)
  - Fyjecsa (Mexico)
  - Storms Hap (USA)

### Siemens containerized CHP biogas gen-set solution for Johannesburg Water, South Africa.

### Fuel blending system available for biogas gensets

- Integrated proprietary GCS-S engine and GCS-G genset control systems
- High flexibility through modularity

### Siemens containerized genset for Cogeneration.

### SGE-56 SL containerized genset for Cogeneration. SGE-48SL Gas Genset.

### Fuel blending system available for biogas gensets

- Integrated proprietary GCS-S engine and GCS-G genset control systems
- High flexibility through modularity

### Siemens containerized CHP biogas gen-set solution for Johannesburg Water, South Africa.

## Best-in-class global efficiencies for CHP in Natural gas S Series: 500 - 1,030 kWe

<table>
<thead>
<tr>
<th>Power generation - CHP</th>
<th>Physical dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power output: 179 to 1,028 kW (natural gas)</td>
<td>Approximate weight (genset): 4,000 to 10,000 kg</td>
</tr>
<tr>
<td>Fuel: Natural gas, biogas, landfill gas, syngas, flare gas, well gas, syngas</td>
<td>Length: 2.1 - 2.3 m</td>
</tr>
<tr>
<td>Frequency: 50 and 60 Hz</td>
<td>Width: 1.5 - 1.7 m</td>
</tr>
<tr>
<td>Speed: 1,200 / 1,500 / 1,800 rpm</td>
<td>Height: 2.1 - 2.3 m</td>
</tr>
<tr>
<td>Electric efficiency: 36 - 39%</td>
<td>(*) Lower emission engines are available</td>
</tr>
<tr>
<td>Thermal efficiency: 51 - 54%</td>
<td>**NOx emissions: 500 mg / lwind</td>
</tr>
<tr>
<td>Total efficiency: 90 - 91%</td>
<td>**Emissions control</td>
</tr>
<tr>
<td>Compliant with the U.S. emissions standards</td>
<td></td>
</tr>
<tr>
<td>Fast start availability</td>
<td></td>
</tr>
</tbody>
</table>
- Lean burn, turbocharged and aftercooled |
- Electronically carbureted |
- Fuel blending capability (natural gas/biogas) available |
- Single or double circuit cooling system |
- High cooling temperature option in main circuit, 120°C |
- Different auxiliary cooling circuit temperatures |
- Oil cooler in main circuit option available |
- Dry/wet exhaust manifold |
- Single/double stage intercooler |
- Reduced oil consumption |
- Emissions control |
- Supplied as a stand-alone engine, genset or in a fully containerized unit |
SGE-SL Marine gas engines

The complete family of SGE-SL gensets with a variety of applications such as Auxiliary power generation and electrical propulsion - constant speed.

Applications

For a large variety of vessels: tugboats, tankers, ferries, oceanographic, special vessels and others.

- Auxiliary power generation
- Electrical propulsion

A gas fueled vessel.

SGE-SL marine gas engines.

Containerized SGS genset for harbour use.

- Working speeds: 1,500 & 1,800 rpm
- Emissions compliant IMO: 500 mg/NOx

- Working speeds: 1,500 and 1,800 rpm
- Fuel: LNG (Liquefied Natural Gas). Methane number from 70
- Cooling configurations: With mechanical and electrical water pumps
- Water circuits T°C: 30401°C

Power generation:

<table>
<thead>
<tr>
<th>Power output*</th>
<th>320 - 1,110 KVA (256 - 888 kWe)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel</td>
<td>LNG, Methane number from 70</td>
</tr>
<tr>
<td>Frequency</td>
<td>1,500 and 1,800 rpm</td>
</tr>
<tr>
<td>Output</td>
<td>1,800 - 1,900 rpm</td>
</tr>
</tbody>
</table>

(* Based on existing gas engines power ratings for the ambient conditions required in the marine market. Note SGS for a large variety of vessels as tugboats, tankers, ferries, oceanographic, special vessels.

Physical dimensions:

<table>
<thead>
<tr>
<th>Approximate weight (net)</th>
<th>2,700 to 10,000 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>2.0 - 4.6 m</td>
</tr>
<tr>
<td>Width</td>
<td>0.9 - 1.6 m</td>
</tr>
<tr>
<td>Height</td>
<td>2.1 - 2.3 m</td>
</tr>
</tbody>
</table>

Note 1) For a large variety of vessels as tugboats, tankers, ferries, oceanographic, special vessels.
SR- Gas engines:

Designed for rich burn power generation

- Mechanical power output: from 281 to 870 kWb (1,800 rpm)
- Powered by natural gas
- Robust design
- Eco friendly
- Load acceptance great flexibility

SR gas engines:
Used in the LNGo System

SR gas engines
SGE-18SR
SGE-24SR
SGE-36SR
SGE-48SR
SGE-56SR
Fuel blending system available for biogas gensets

SGE-SR
Gas engine family

This engine is spark ignited and powered by natural gas and well gas. Robust and reliable, has great flexibility for load acceptance and great performance for power generation and cogeneration.

Applications
- Power Generation
- Cogeneration

**Power generation - CHP**
- Power output: 27 to 844 kWe
- Fuel: Natural gas, Well gas
- Frequency: 60 Hz
- Speed: 1,800 rpm
- Electric efficiency: 33 - 34 %

**Physical dimensions**
- Approximate weight (genset): 4,000 to 10,000 kg
- Length: 2.8 - 4.3 m
- Width: 1.5 - 1.7 m
- Height: 2.1 - 2.3 m

- Mostly suitable for 60 Hz markets (USA)
- Part of the LNGo solution package

- Rich burn
- Turbocharged and aftercooled
- Wet Exhaust Manifold
- Electronically carbureted
- Powered by natural gas and well gas
- Double circuit cooling system
- Different auxiliary cooling circuit temperatures
- Single/double stage intercooler
- Great flexibility for load acceptance
- Emissions control
- Compliant with the U.S. emissions standards
- Supplied as a stand-alone engine, genset or in a fully containerized unit
SM- Gas engines:
Designed for fuel flexible power generation

- Mechanical power output: from 1,055 to 1,100 kWb when powered by natural gas, landfill, and sewage gas (1,500 and 1,800 rpm)
- Mechanical power output from 275 to 906 kWb when powered by propane LPG (1,500 and 1,800 rpm)
- Powered by natural gas, landfill, sewage gas and propane
- High efficiency
- Load acceptance great flexibility
- High quick start and operational availability
- Standard interchangeable parts

SM gas engines
SGE-18SM
SGE-24SM
SGE-36SM
SGE-48SM
SGE-56SM
Fuel blending system available for biogas gensets

SGE-SM Gas engines

The SM gas engine offers systems for a large variety of applications such as Cogeneration/trigeneration. The SM gas engine is also able to operate with other types of gases like propane and biogas.

Applications
- Power generation
- CHP and Trigeneration
- Waste to power

References
- SGE-24SM
  - Puerto Rico (propane), Food industry
- SGE-56SM
  - Anaerobic digestion from POME and animal manure in Thailand and Indonesia

New Food industry plant, two containerized SGE-24SM engines.
HM- Gas engines:

Designed for high performance power generation

- Mechanical power output: from 520 to 1,350 kWb (1,200, 1,500 and 1,800 rpm)
- Powered by natural gas, sewage gas and landfill gas
- Fuel flexibility and fuel blending availability
- High performance
- Low life cycle cost
- Cost efficient
- Compact solution
- Best-in-class electrical efficiencies in biogas and natural gas

HM gas engines:

SGE-24HM
SGE-42HM
SGE-56HM
Fuel blending system available for biogas gensets

The proven HM engine series offers a robust design with Miller cycle. This is the first reference of the 42HM model engine recently released. A cost-efficient compact solution for power generation and cogeneration processes.

**Applications**
- Power generation (50 Hz and 60 Hz)
- CHP - cogeneration

**References**
- Sokohwew Podlaskim - Poland
- Supply two genset SGE-42HM
- Power output - 2 Mwe

**Customer:** SOKÓLOW SA

---

<table>
<thead>
<tr>
<th>Applications</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power generation (50 Hz and 60 Hz)</td>
<td>Sokohwew Podlaskim - Poland</td>
</tr>
<tr>
<td>CHP - cogeneration</td>
<td>Supply two genset SGE-42HM</td>
</tr>
<tr>
<td>Power output - 2 Mwe</td>
<td>Power output - 2 Mwe</td>
</tr>
</tbody>
</table>

---

**SGE-HM**

Gas engines

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**Best-in-class electrical efficiencies in Biogas (W2P) engines, H Series:**
- 24HM: 500 kW; 42HM: 1,000 kW; 56HM: 1,300 kW

**Best-in-class electrical efficiencies in Natural gas H Series:**
- 24HM: 500 kW; 56HM: 1,300 kW
HM: Key features

Control system
- Proprietary, fully-integrated, engine control system for optimized performance and diagnosis

Lubrication system
- Wet sump with oil cooler
- Internal oil pump
- Centrifugal oil filter for HT applications

Combustion system
- Two camshafts, Miller cycle
- Cylinder head designed for maximum volumetric efficiency with water-cooled exhaust valve seats
- Pre-chamber sparkplugs

Intake & exhaust systems
- Overhead efficiency turbocharger, water cooled
- Two-stage, oil engine integrated, charge cooler
- Two intake manifolds outside the engine
- Dry exhaust manifold, inside the engine

Power train
- High swirl pistons optimized for high efficiency
- Rings designed for optimized oil consumption
EM- Gas engines:

**Designed for Best-in-class power generation**

- Mechanical power output: 2,065 kWb (1,200 and 1,500 rpm)
- Direct Drive in 60 Hz (1,200 rpm) option
- Powered by natural gas
- Best-in-class, excellent efficiency in small footprint
- Lowest emissions
- High operational availability
- Low life cycle cost

EM gas engines

- SGE-86EM
- SGE-100EM
Fuel blending system available for biogas gensets

SGE-EM
Gas engines

The EM gas engines are the most compact competitive choice with the ability to deliver high power output with even 200 mg/Nm3 NOx.

Applications

- Highest efficiency in its class
- Lower emissions
- Lower footprint
- Best power-performance ratio
- Direct Drive for 60 Hz (1,200 rpm) option
- Lower OPEX

Best-in-class electrical efficiency in Natural gas E Series: 86 EM: - 2,000 kWe

Applications

- Power generation (50 Hz and 60 Hz)
- CHP - cogeneration

Power generation: CHP

- Power output: 2,012 kWe
- Fuel: Natural gas
- Speed: 1,200 /1,500 rpm
- Electric efficiency: 45.4 %
- Thermal efficiency: 41 %
- Total efficiency: 86.4 %
- NOx emissions: 500 mg / Nm3

Note 1) Also available at 230 mg/Nm3 NOx.

Physical dimensions

- Approximate weight: 14,515 kg
- Length: 6.4 m
- Width: 2.0 m
- Height: 2.3 m

Power generation - CHP

- Electric efficiency: 45.4 %
- Thermal efficiency: 41 %
- Total efficiency: 86.4 %
- NOx emissions: 1,500 mg / Nm3 NOx

Note 1) Also available at 230 mg/Nm3 NOx.

Power generation - CHP

- Power output: 2,012 kWe
- Fuel: Natural gas
- Speed: 1,200 /1,500 rpm
- Electric efficiency: 45.4 %
- Thermal efficiency: 41 %
- Total efficiency: 86.4 %
- NOx emissions: 500 mg / Nm3

Note 1) Also available at 230 mg/Nm3 NOx.
Control system
- Proprietary, fully integrated, engine control system for optimized performance and diagnosis

Combustion system
- One single-camshaft, Miller cycle
- Cylinder head designed for maximum volumetric efficiency with water-cooled exhaust valve seats
- Pre-combustion chamber with direct gas injection optimized for high efficiency and low emissions

Lubrication system
- On-engine integrated O/C (HT water circuit)
- External, accessible, oil pump
- Centrifugal oil filter

Intake & exhaust systems
- Two high efficiency turbochargers, water-cooled, with two bypass valves
- Two-stage, on-engine integrated, charge cooler
- Dry intake manifold inside the engine
- Dry exhaust manifolds, outside the engine

Power train
- Forged steel piston for high peak combustion pressures
- Rings designed for optimized consumption
- Low mass and high resistance connecting rod
Container models

Container type | 40 feet container with embedded aircooler | 40 feet container with top mounted aircooler | 30 feet container with remote radiator | Soundproof canopy
---|---|---|---|---
Brief description | The container is comprised of following individual areas: Engine room- is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank. Also a heat water recovery skid can be the subject of necessity. | The container is comprised of following individual areas: Engine room- is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank. Also a heat water recovery skid can be the subject of necessity. | The container is comprised of following individual areas: Engine room- is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank. Also a heat water recovery skid can be the subject of necessity. | The container is comprised of following individual areas: Engine room- is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank. Also a heat water recovery skid can be the subject of necessity.
Cabinet room- containing the electrical, control and power panels. | Cabinet room- containing the electrical, control and power panels. | Cabinet room- containing the electrical, control and power panels. | Cabinet room- containing the electrical, control and power panels. | The exhaust silencer will be installed on the roof and the aircooler outside in a remote area. (*) External use
Top mounted area- containing the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust heat recovery skid. | Top mounted area- containing the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust heat recovery skid. | Top mounted area- containing the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust heat recovery skid. | Top mounted area- containing the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust heat recovery skid. | The exhaust silencer will be installed on the roof and the aircooler outside in a remote area. (*) External use
Sound pressure level | Down to 75 dB (A) in 10 m except for the 56SLT30 model with 75 dB (A) in 1 m | Down to 75 dB (A) in 10 m except for the 56SLT30 model with 75 dB (A) in 1 m | Down to 75 dB (A) in 1 m | Down to 75 dB (A) in 1 m
Ambient temperatures (*) | The container is designed for ambient temperatures of -10ºC to 29.5ºC | The container is designed for ambient temperatures of -10ºC to 45ºC | The container is designed for ambient temperature of 0ºC to 35ºC | The container is designed for ambient temperatures of 0ºC to 35ºC
Dimensions | L:12,192 mm; W: 2,438 mm; Height: 2,896 mm | L:12,192 mm; W: 2,438 mm; Height: 2,896 mm | L:9,144 mm; W: 2,438 mm; Height: 2,896 mm | L:6,000 mm; W: 2,000 mm; Height: 3,100 mm

(*) For other configurations please contact the Siemens Engine Business

Soundproof canopy

Remote radiator

Exhaust silencer

Sound pressure level

Ambient temperatures (*)

Dimensions

Applications by engine models

Genset module

Soundproof canopy

Remote radiator

Exhaust silencer

Sound pressure level

Ambient temperatures (*)

Dimensions

Applications by engine models

Genset module

Soundproof canopy

Remote radiator

Exhaust silencer

Sound pressure level

Ambient temperatures (*)

Dimensions

Applications by engine models

Genset module

Soundproof canopy

Remote radiator

Exhaust silencer

Sound pressure level

Ambient temperatures (*)

Dimensions

Applications by engine models

Genset module

Soundproof canopy

Remote radiator

Exhaust silencer

Sound pressure level

Ambient temperatures (*)

Dimensions

Applications by engine models

Genset module
<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Speed (rpm)</th>
<th>Fuel Type</th>
<th>Engine Power (kW)</th>
<th>Electrical Eff. (%)</th>
<th>Thermal Eff. (%)</th>
<th>Global Eff. (%)</th>
<th>Engine Dimensions (L x W x H) (m)</th>
<th>Engine Dry Weight (kg)</th>
<th>Genset Dry Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGE - 18 SL</td>
<td>1,000</td>
<td>Natural gas</td>
<td>1,036</td>
<td>37.9</td>
<td>52.0</td>
<td>50.8</td>
<td>1200 x 1200 x 1100 (m)</td>
<td>8,000</td>
<td>4,67 x 1.66 x 2.18</td>
</tr>
<tr>
<td>SGE - 18 SL</td>
<td>1,200</td>
<td>Natural gas</td>
<td>1,063</td>
<td>37.9</td>
<td>52.0</td>
<td>50.8</td>
<td>1200 x 1200 x 1100 (m)</td>
<td>8,000</td>
<td>4,67 x 1.66 x 2.18</td>
</tr>
<tr>
<td>SGE - 24 SL</td>
<td>1,000</td>
<td>Natural gas</td>
<td>1,103</td>
<td>35.3</td>
<td>48.6</td>
<td>49.7</td>
<td>1200 x 1200 x 1100 (m)</td>
<td>8,000</td>
<td>4,67 x 1.66 x 2.18</td>
</tr>
<tr>
<td>SGE - 24 SL</td>
<td>1,200</td>
<td>Natural gas</td>
<td>1,103</td>
<td>35.3</td>
<td>48.6</td>
<td>49.7</td>
<td>1200 x 1200 x 1100 (m)</td>
<td>8,000</td>
<td>4,67 x 1.66 x 2.18</td>
</tr>
<tr>
<td>SGE - 36 SL</td>
<td>1,000</td>
<td>Natural gas</td>
<td>1,103</td>
<td>35.3</td>
<td>48.6</td>
<td>49.7</td>
<td>1200 x 1200 x 1100 (m)</td>
<td>8,000</td>
<td>4,67 x 1.66 x 2.18</td>
</tr>
<tr>
<td>SGE - 36 SL</td>
<td>1,200</td>
<td>Natural gas</td>
<td>1,103</td>
<td>35.3</td>
<td>48.6</td>
<td>49.7</td>
<td>1200 x 1200 x 1100 (m)</td>
<td>8,000</td>
<td>4,67 x 1.66 x 2.18</td>
</tr>
<tr>
<td>SGE - 48 SL</td>
<td>1,000</td>
<td>Natural gas</td>
<td>1,103</td>
<td>35.3</td>
<td>48.6</td>
<td>49.7</td>
<td>1200 x 1200 x 1100 (m)</td>
<td>8,000</td>
<td>4,67 x 1.66 x 2.18</td>
</tr>
<tr>
<td>SGE - 48 SL</td>
<td>1,200</td>
<td>Natural gas</td>
<td>1,103</td>
<td>35.3</td>
<td>48.6</td>
<td>49.7</td>
<td>1200 x 1200 x 1100 (m)</td>
<td>8,000</td>
<td>4,67 x 1.66 x 2.18</td>
</tr>
<tr>
<td>SGE - 56 SL</td>
<td>1,000</td>
<td>Natural gas</td>
<td>1,103</td>
<td>35.3</td>
<td>48.6</td>
<td>49.7</td>
<td>1200 x 1200 x 1100 (m)</td>
<td>8,000</td>
<td>4,67 x 1.66 x 2.18</td>
</tr>
<tr>
<td>SGE - 56 SL</td>
<td>1,200</td>
<td>Natural gas</td>
<td>1,103</td>
<td>35.3</td>
<td>48.6</td>
<td>49.7</td>
<td>1200 x 1200 x 1100 (m)</td>
<td>8,000</td>
<td>4,67 x 1.66 x 2.18</td>
</tr>
</tbody>
</table>

Notes:
(1) For S Series: Natural Gas MN>75 and Biogas: 62.5% CH₄, 36% CO₂ and 1.5% N₂.
(2) For H and E Series: Natural Gas MN>80 and Biogas 67% CH₄ and 33% CO₂ (only for H Series).
(3) Thermal efficiency of the S Series engines calculated considering the exhaust gases heat recovery until 80ºC.
(4) Thermal efficiency of the E Series engines calculated considering the exhaust gases heat recovery until 120ºC.

For other type of gases, please contact Siemens Engines.

- The dimensions and weights are approximate values and are subject to changes with a tolerance of 10%.
- Engine performance data acc. to ISO 3046/1, 25ºC and 500 meter above sea level.
- Electrical power at power factor =1. 400 V (50Hz) and 480 V (60Hz). Lower emission engines are available. Please, contact Siemens for performance data.
- Emissions level: NOx < 500 mg/Nm³ (50Hz) and 1 g/bHPh (60Hz).
- Emission power at power factor = 1.00 (400V and 480V).

The above specifications and ratings may be subject to changes with a tolerance of 10%.

(1) The values given in this data sheet perform as information purposes only and not binding.
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