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 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.

- Data referred to thermal balances published at 18th June 2018
- Mechanical power of the SL Series includes Standby and Prime app for all the engines except for 56SL and 56SR

<table>
<thead>
<tr>
<th>Model</th>
<th>50 Hz</th>
<th>60 Hz</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>1,040 kW</td>
<td>1,350 kW</td>
</tr>
<tr>
<td>SGE-56HM</td>
<td>520 kW</td>
<td>870 kW</td>
</tr>
<tr>
<td>SGE-42HM</td>
<td>870 kW</td>
<td>1,040 kW</td>
</tr>
<tr>
<td>SGE-24HM</td>
<td>562 kW</td>
<td>660 kW</td>
</tr>
<tr>
<td>SGE-56SR</td>
<td>375 kW</td>
<td>420 kW</td>
</tr>
<tr>
<td>SGE-48SR</td>
<td>281 kW</td>
<td>330 kW</td>
</tr>
<tr>
<td>SGE-36SR</td>
<td>1,055 kW</td>
<td>1,100 kW</td>
</tr>
<tr>
<td>SGE-24SR</td>
<td>725 kW</td>
<td>906 kW</td>
</tr>
<tr>
<td>SGE-18SR</td>
<td>550 kW</td>
<td>700 kW</td>
</tr>
<tr>
<td>SGE-56SM</td>
<td>360 kW</td>
<td>453 kW</td>
</tr>
<tr>
<td>SGE-48SM</td>
<td>275 kW</td>
<td>350 kW</td>
</tr>
<tr>
<td>SGE-36SM</td>
<td>560 kW</td>
<td>1,150 kW</td>
</tr>
<tr>
<td>SGE-24SM</td>
<td>561 kW</td>
<td>1,060 kW</td>
</tr>
<tr>
<td>SGE-18SM</td>
<td>418 kW</td>
<td>790 kW</td>
</tr>
<tr>
<td>SGE-56SL</td>
<td>281 kW</td>
<td>530 kW</td>
</tr>
<tr>
<td>SGE-48SL</td>
<td>190 kW</td>
<td>350 kW</td>
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<tr>
<td>SGE-36SL</td>
<td>190 kW</td>
<td>350 kW</td>
</tr>
<tr>
<td>SGE-24SL</td>
<td>190 kW</td>
<td>350 kW</td>
</tr>
<tr>
<td>SGE-18SL</td>
<td>190 kW</td>
<td>350 kW</td>
</tr>
</tbody>
</table>

- Data refers to mechanical balances published on 18th June 2018
- Mechanical power of the SL Series includes Standby and Prime app for all the engines except 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.

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<th>Page</th>
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<tr>
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<td>34</td>
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</tbody>
</table>
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
SGE-SL
Gas engines

The SL gas engines often systems for a large variety of applications as Cogeneration/Trigeneration, Sewage/landfill/digester 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 gasification process.

Fuel blending system available for biogas gensets


Applications

- Power generation (CPL, SDE, 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)
  - Fypasa (Mexico)
  - Storms Hog (USA)

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

- 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
- Drywall exhaust manifold
- Single/double stage intercooler
- Reduced oil consumption
- Emissions control
- Compliant with the U.S. emissions standards
- Fast start availability
- Supplied as a stand-alone engine, genset or in a fully containerized unit

Power generation - CHP

- Power output: 179 to 1,028 kWe (natural gas)
- Fuel: Natural gas, biogas, landfill gas, sewage gas, flare gas, well gas, syngas
- Frequency: 50 and 60 Hz
- Speed: 1,200 / 1,500 / 1,800 rpm
- Electric efficiency: 36 - 39%
- Thermal efficiency: 51 - 55%
- Total efficiency: 90 - 91.5%
- NOx emissions: 500 mg/Nm³

(*) Lower emission engines are available

Power generation - CHP

Physical dimensions

- Approximate weight ( genset): 4,000 to 10,000 kg
- Width: 1.8 - 1.7 m
- Height: 2.1 - 2.0 m
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


Fuel blending system available for biogas gensets

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.

Fuel blending system available for biogas gensets

SGE-SL

Marine gas engines

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

- Auxiliary power generation
- Electrical propulsion

Applications

- Power generation
- Physical dimensions

Power generation:

- Power output*: 274 to 1,110 kW (natural gas)
- Fuel: LNG, Methane number from 70
- Frequency: 50 and 60 Hz
- Speed: 1,500 & 1,800 rpm
- Emissions compliant IMO/500 mg/NOx

Physical dimensions:

- Approximate weight (genset): 2,700 to 10,000 kg
- Length: 2.0 to 4.6 m
- Width: 0.9 to 1.6 m
- Height: 2.1 to 2.8 m

(*) Based on existing gas engines power ratings for the ambient conditions required in the marine market.

Note 1) For a large variety of vessels as tugboats, tankers, ferries, oceanographic, special vessels.

- Working speeds: 1,500 & 1,800 rpm
- Fuel: LNG (Liquefied Natural Gas)
- Methane number from 70
- Cooling configurations: With mechanical and electrical water pumps
- Water circuits T°: 3040°C

A gas fueled vessel.

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

- Auxiliary power generation
- Electrical propulsion

Applications

- Power generation
- Physical dimensions

Power generation:

- Power output*: 274 to 1,110 kW (natural gas)
- Fuel: LNG, Methane number from 70
- Frequency: 50 and 60 Hz
- Speed: 1,500 & 1,800 rpm
- Emissions compliant IMO/500 mg/NOx

Physical dimensions:

- Approximate weight (genset): 2,700 to 10,000 kg
- Length: 2.0 to 4.6 m
- Width: 0.9 to 1.6 m
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A gas fueled vessel.

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- Auxiliary power generation
- Electrical propulsion

Applications

- Power generation
- Physical dimensions

Power generation:

- Power output*: 274 to 1,110 kW (natural gas)
- Fuel: LNG, Methane number from 70
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- Length: 2.0 to 4.6 m
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Note 1) For a large variety of vessels as tugboats, tankers, ferries, oceanographic, special vessels.

- Working speeds: 1,500 & 1,800 rpm
- Fuel: LNG (Liquefied Natural Gas)
- Methane number from 70
- Cooling configurations: With mechanical and electrical water pumps
- Water circuits T°: 3040°C

A gas fueled vessel.
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
**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

**LNGo micro-scale natural gas liquefaction system**

**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

**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%

- 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
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 containerised SGE-24SM engines.**

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**Fuel blending system available for biogas gensets SGE-SM Gas engines**

- Lean-burn, turbocharged and aftercooled
- Miller cycle
- Electronically carbureted
- Double circuit cooling system
- Different auxiliary cooling circuit temperatures
- Oil cooler in main circuit option available
- Single/double stage intercooler
- Reduced oil consumption
- Compliant with the U.S emissions standards

**SGE-24SM**

- Power generation - CHP
- Power output: 303 to 873 kWe (Propane (LPG))
- Fuel: Propane
- Frequency: 50 and 60 Hz
- Speed: 1,500 / 1,800 rpm
- Electric efficiency: 36 - 36.3%
- Thermal efficiency: 53 - 55%
- Total efficiency: 91 - 93%
- NOx emissions: 500 mg / Nm3

**SGE-56SM**

- Power generation - CHP
- Power output: 1,025 to 1,060 kWe
- Fuel: Natural gas, biogas
- Frequency: 50 and 60 Hz
- Speed: 1,500 / 1,800 rpm
- Electric efficiency: 39 - 41%
- Thermal efficiency: 51 - 52%
- Total efficiency: 92%
- NOx emissions: 500 mg / Nm3

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**Physical dimensions**

- Approximate weight: 4,000 to 10,000 kg
- Length: 2.8 - 4.3 m
- Width: 1.5 - 1.7 m
- Height: 2.1 - 2.3 m
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

SGE-HM Gas engines

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
Sokołowie Podlaskim - Poland
- Supply two genset SGE-42HM
- Power output - 2 MWe

Customer; SOKOŁÓW SA

Condensation plant - Sokołowie Podlaskim - Poland.

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

- Proven design
- High thermal efficiency
- Integrated proprietary GCS-E engine
and GCS-G genset control systems

SGE-42HM genset
SGE-56HM containerized genset

Condensation plant - Sokołowie Podlaskim - Poland.

Physical dimensions
Approximate weight: 6,200 to 11,000 kg
Length: 4.0 - 5.6 m
Width: 1.8 - 1.9 m
Height: 1.7 - 2.8 m

Power generation - CHP
Power output: 160 to 1,175 kW
Fuel: Natural gas, biogas
Frequency: 50 and 60 Hz
Speed: 1,200 / 1,500 / 1,800 rpm
Emission control: NOx emissions 500 mg / Nm3

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

Utilities
- Miller cycle
- High efficiency
- Turbocharged and aftercooled
- Dry exhaust manifold
- Electronically controlled
- Fuel blending capability natural gas/biogas available
- Oil cooler in main circuit option available
- Single/double stage intercooler
- Reduced oil consumption
- Emissions control
Supplied as a stand-alone engine, genset or in a fully containerized unit

Fuel Natural gas, biogas
Frequency 50 and 60 Hz
Speed 1,200 /1,500 / 1,800 rpm
Emissions control

NOx emissions 500 mg / Nm3
HM: Key features

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

Lubrication system
- Oil mist oil cooler
- Internal oil pump
- Centrifugal oil filter for W2P 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
- Two-stage, on engine integrated, charge cooler
- Two intake manifolds outside the engine
- Dry exhaust manifolds, inside the engine

Power train
- High swirl pistons optimized for high efficiency
- Rings designed for optimized oil consumption

- Overhead efficiency turbocharger, water cooled
- Dry exhaust manifolds, inside the engine
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
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
- Power generation (50 Hz and 60 Hz)
- CHP – cogeneration

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

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

Power generation - CHP
- Power output: 2,012 kWe
- Fuel: Natural gas
- Generator: 1,500 rpm
- 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.
EM: Key features

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**

<table>
<thead>
<tr>
<th>Container type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 feet container with remote radiator</td>
<td>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 base module for it. Cabinet room - containing the electrical, control and power panel. Aircooler room - containing the cooling system and gas ramp. When necessary also will include the heat recovery skid. Top mounted area - containing the exhaust skilencer, chimney and if necessary the exhaust heat recovery. (for local assembly) (*) External use</td>
</tr>
</tbody>
</table>

| 40 feet container with embedded aircooler | Container is comprised of following individual areas: Genset module - is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank. Also a heat water recovery skid can be the base module for it. Cabinet room - containing the electrical, control and power panel. Top mounted area - containing the exhaust skilencer, chimney and if necessary the exhaust heat recovery. (for local assembly) (*) External use |

**Sound pressure level**

- Down to 75 dB (A) in 10 m except for the 56SL T30 model with 75 dB (A) in 1 m
- Down to 75 dB (A) in 10 m except for the 56SL T30 model with 75 dB (A) in 1 m
- Down to 75 dB (A) in 10 m except for the 56SL T30 model with 75 dB (A) in 1 m
- Down to 75 dB (A) in 10 m except for the 56SL T30 model with 75 dB (A) in 1 m

**Ambient temperatures (°C)**

- The container is designed for ambient temperatures of -18°C to 45°C with an option to reach up to 55°C
- The container is designed for ambient temperatures of -18°C to 35°C with an option to reach up to 48°C
- The container is designed for ambient temperatures of -18°C to 35°C with an option to reach up to 48°C
- The container is designed for ambient temperatures of -10°C to 29.5°C
- The container is designed for ambient temperatures of 0°C to 35°C

**Applications by engine models**

- Power generation: S Series including 56SLT30, H Series Line engine.
- Cogeneration: All engines except for V engines of the H Series and 56 lite engines (SL, SM)
- Fast start: 56SL T30 engine
- Power Generators, Cogenerators for all L engines

(*For other configurations please contact the Siemens Engine Business

**Soundproof canopy**

- Remote radiator
- Soundproof canopy for site assembly

**Exhaust chimney**

- Exhaust skid
- Exhaust heat exchanger
- Exhaust distributor (optional)

**Container: Key features**

- Air intake silencer
- Access door
- Exhaust silencer
- Enclosure floor
- Genset module
- Separate control room door
- GCS-G control & power cabinet
<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Speed (rpm)</th>
<th>Fuel type</th>
<th>Engine Type</th>
<th>Power (kW)</th>
<th>Eff. (%)</th>
<th>Power (kW)</th>
<th>Eff. (%)</th>
<th>Engine Dry Weight (kg)</th>
<th>Dimensions [L x W x H] (m)</th>
<th>Engine Dry Weight (kg)</th>
<th>Dimensions [L x W x H] (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>[E] S Series</td>
<td>1,500 &amp; 1,800</td>
<td>Natural gas</td>
<td>326 &amp; 362</td>
<td>330 &amp; 366</td>
<td>38.6 &amp; 39.0</td>
<td>561 &amp; 622</td>
<td>92.8 &amp; 93.0</td>
<td>3.00 x 1.55 x 2.2</td>
<td>5,000 &amp; 7,940</td>
<td>5,800 &amp; 8,560</td>
<td></td>
</tr>
<tr>
<td>[E] S Series</td>
<td>1,500 &amp; 1,800</td>
<td>Natural gas</td>
<td>342 &amp; 368</td>
<td>348 &amp; 366</td>
<td>38.7 &amp; 39.0</td>
<td>563 &amp; 622</td>
<td>92.3 &amp; 93.0</td>
<td>3.00 x 1.55 x 2.2</td>
<td>5,000 &amp; 7,940</td>
<td>5,800 &amp; 8,560</td>
<td></td>
</tr>
<tr>
<td>[E] S Series</td>
<td>1,500 &amp; 1,800</td>
<td>Biogas</td>
<td>372 &amp; 408</td>
<td>378 &amp; 406</td>
<td>38.7 &amp; 39.0</td>
<td>563 &amp; 622</td>
<td>92.0 &amp; 93.0</td>
<td>3.00 x 1.55 x 2.2</td>
<td>5,000 &amp; 7,940</td>
<td>5,800 &amp; 8,560</td>
<td></td>
</tr>
<tr>
<td>[E] S Series</td>
<td>1,500 &amp; 1,800</td>
<td>Natural gas</td>
<td>432 &amp; 448</td>
<td>438 &amp; 446</td>
<td>38.7 &amp; 39.0</td>
<td>563 &amp; 622</td>
<td>92.3 &amp; 93.0</td>
<td>3.00 x 1.55 x 2.2</td>
<td>5,000 &amp; 7,940</td>
<td>5,800 &amp; 8,560</td>
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</tbody>
</table>

Notes:
1. For S Series: Natural Gas MN>75 and Biogas: 62,5% CH4, 36% CO₂ and 1,5% N₂.
2. For E Series: Natural Gas MN>80 and Biogas 67% CH4 and 33% CO₂ (only for E Series).
3. For other type of gases, please contact Siemens Engines.
4. Engine performance data acc. to ISO 3046/1, 25ºC and 500 meter above sea level.
5. Emissions level for SR Series: 0.1 g/bHPh.
6. The thermal efficiency of the E Series engines is calculated considering the exhaust gases heat recovery until 120ºC.
7. Lower emission engines are available. Please, contact Siemens for performance data.
8. The specifications and weights are subject to changes with a tolerance of +5%.
9. Remarks: Engine performance data acc. to ISO 3046/1, 25ºC and 300 meter above sea level, with a tolerance of ±5%.
10. Lower emission engines are available. Please, contact Siemens for performance data.

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Engine Model | Speed (rpm) | Fuel type | Engine Type | Power (kW) | Eff. (%) | Power (kW) | Eff. (%) | Engine Dry Weight (kg) | Dimensions [L x W x H] (m) | Engine Dry Weight (kg) | Dimensions [L x W x H] (m) |
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>[SR] S Series</td>
<td>1,500</td>
<td>Natural gas</td>
<td>306 &amp; 361</td>
<td>312 &amp; 366</td>
<td>38.2 &amp; 39.0</td>
<td>561 &amp; 617</td>
<td>92.8 &amp; 93.0</td>
<td>3.00 x 1.55 x 2.2</td>
<td>5,000 &amp; 7,940</td>
<td>5,800 &amp; 8,560</td>
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<td>386 &amp; 404</td>
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<td>[SR] S Series</td>
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<td>Natural gas</td>
<td>432 &amp; 448</td>
<td>440 &amp; 446</td>
<td>38.7 &amp; 39.0</td>
<td>561 &amp; 617</td>
<td>92.3 &amp; 93.0</td>
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Notes:
1. For S Series: Natural Gas MN>75 and Biogas: 62,5% CH4, 36% CO₂ and 1,5% N₂.
2. For E Series: Natural Gas MN>80 and Biogas 67% CH4 and 33% CO₂ (only for E Series).
3. For other type of gases, please contact Siemens Engines.
4. Engine performance data acc. to ISO 3046/1, 25ºC and 500 meter above sea level.
5. Emissions level for SR Series: 0.1 g/bHPh.
6. The thermal efficiency of the E Series engines is calculated considering the exhaust gases heat recovery until 120ºC.
7. Lower emission engines are available. Please, contact Siemens for performance data.
8. The specifications and weights are subject to changes with a tolerance of +5%.
9. Remarks: Engine performance data acc. to ISO 3046/1, 25ºC and 300 meter above sea level, with a tolerance of ±5%.
10. Lower emission engines are available. Please, contact Siemens for performance data.

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Engine Model | Speed (rpm) | Fuel type | Engine Type | Power (kW) | Eff. (%) | Power (kW) | Eff. (%) | Engine Dry Weight (kg) | Dimensions [L x W x H] (m) | Engine Dry Weight (kg) | Dimensions [L x W x H] (m) |
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