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.

<table>
<thead>
<tr>
<th>Engine Code</th>
<th>Electrical Power</th>
<th>Mechanical Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGE-100EM</td>
<td>1,900 kW</td>
<td>1,900 kW</td>
</tr>
<tr>
<td>SGE-86EM</td>
<td>1,850 kW</td>
<td>1,850 kW</td>
</tr>
<tr>
<td>SGE-56HM</td>
<td>1,600 kW</td>
<td>1,600 kW</td>
</tr>
<tr>
<td>SGE-42HM</td>
<td>1,400 kW</td>
<td>1,400 kW</td>
</tr>
<tr>
<td>SGE-24HM</td>
<td>870 kW</td>
<td>870 kW</td>
</tr>
<tr>
<td>SGE-56SR</td>
<td>840 kW</td>
<td>840 kW</td>
</tr>
<tr>
<td>SGE-48SR</td>
<td>375 kW</td>
<td>375 kW</td>
</tr>
<tr>
<td>SGE-36SR</td>
<td>281 kW</td>
<td>281 kW</td>
</tr>
<tr>
<td>SGE-24SR</td>
<td>190 kW</td>
<td>190 kW</td>
</tr>
<tr>
<td>SGE-56SM</td>
<td>1,040 kW</td>
<td>1,040 kW</td>
</tr>
<tr>
<td>SGE-48SM</td>
<td>750 kW</td>
<td>750 kW</td>
</tr>
<tr>
<td>SGE-36SM</td>
<td>660 kW</td>
<td>660 kW</td>
</tr>
<tr>
<td>SGE-24SM</td>
<td>562 kW</td>
<td>562 kW</td>
</tr>
<tr>
<td>SGE-56SL</td>
<td>520 kW</td>
<td>520 kW</td>
</tr>
<tr>
<td>SGE-48SL</td>
<td>380 kW</td>
<td>380 kW</td>
</tr>
<tr>
<td>SGE-36SL</td>
<td>281 kW</td>
<td>281 kW</td>
</tr>
<tr>
<td>SGE-24SL</td>
<td>275 kW</td>
<td>275 kW</td>
</tr>
<tr>
<td>SGE-56SL</td>
<td>1,100 kW</td>
<td>1,100 kW</td>
</tr>
<tr>
<td>SGE-48SL</td>
<td>700 kW</td>
<td>700 kW</td>
</tr>
<tr>
<td>SGE-36SL</td>
<td>500 kW</td>
<td>500 kW</td>
</tr>
<tr>
<td>SGE-24SL</td>
<td>350 kW</td>
<td>350 kW</td>
</tr>
</tbody>
</table>

Datasheet for mechanical indicators published by Siemens AG, Berlin, May 2018. Maximum power for 50 Hz at 60 Hz available. For 56SL and 56SR series, power includes Standby and Prime mode for all engines range from 56SL to 660 kW.

Data sheet for electrical indicators published by Siemens AG, Berlin, May 2018. For engines range 56SL to 660 kW, power includes Standby and Prime mode for all engines range from 56SL to 660 kW.
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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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
Fuel blending system available for biogas gensets

Integrated proprietary GCS-E engine and GCS-G genset control systems

High flexibility through modularity

Applications

Power generation (rent, LTP, ESA, PRP,...)

CHP and Trigeneration

Waste to power

Marine applications

Mechanical drive (for pump driving)

Lean burn, turbocharged and aftercooled

Electronically carburated

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

Compliant with the U.S. emissions standards

Fast start availability

Supplied as a stand-alone engine, genset or in a fully containerized unit

Table: 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>Power output</th>
<th>Fuel</th>
<th>Frequency</th>
<th>Speed</th>
<th>Electric efficiency</th>
<th>Thermal efficiency</th>
<th>Total efficiency</th>
<th>NOx emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power output 179 to 1,028 kWe (natural gas)</td>
<td>179 to 1,028 kWe (natural gas)</td>
<td>Natural gas, biogas, flare gas, sewage gas, wastewater, syngas</td>
<td>50 to 52 Hz</td>
<td>900 to 1,900 rpm</td>
<td>36 - 39 %</td>
<td>51 - 55 %</td>
<td>90 - 91 %</td>
<td>500 mg / Nm³</td>
</tr>
</tbody>
</table>

(*) Lower emission engines are available

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

Tables:

<table>
<thead>
<tr>
<th>Applications</th>
<th>SGE-SL containerized genset for Cogeneration.</th>
<th>SGE-56 SL containerized genset for Cogeneration.</th>
</tr>
</thead>
</table>

References

Universities

Wesleyan (USA)

Wolverhampton (UK)

Utilities (Landfill, sewage plants)

ETE (Brazil)

Johannesburg (South Africa)

Fujitsu (Mexico)

Storms Hog (USA)

Siemens containerized CHP biogas genset solution for Johannesburg Water, South Africa.
The complete family of SGE-SL gen-sets 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.

Power generation:
- Power output: 320 - 1,110 KVA (256 - 888 kWe)
- 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 - 4.6 m
- Width: 0.9 - 1.6 m
- Height: 2.1 - 2.3 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°: 90/40 °C

Fuel blending system available for biogas gensets

SGE-SL Marine gas engines

Containerized SGE genset for harbour use.
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

Materials

- Rich burn
- Turbocharged and aftercooled
- Wet Exhaust Manifold
- Electronically carburated
- 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

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
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
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
- Trigeneration
SGE-56SM
- Anarobic digestion from POME and animal manure in Thailand and Indonesia

Fuel blending system avaliable for biogas gensets

.A CHP package of SM genset.

Power generation - CHP
Fuel
- Propane (LPG)
- Natural gas, biogas

Frequency
- 50 and 60 Hz

Speed
- 1,500 / 1,800 rpm

Electric efficiency
- 36 - 36.3 %

Thermal efficiency
- 51 - 52 %

Total efficiency
- 92 %

NOx emissions
- 500 mg / Nm3

Power generation - CHP
Fuel
- Propane (LPG)
- 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

Power generation - CHP
Fuel
- Propane (LPG)

Frequency
- 50 and 60 Hz

Speed
- 1,500 / 1,800 rpm

Electric efficiency
- 36 - 36.3 %

Thermal efficiency
- 51 - 52 %

Total efficiency
- 92 %

NOx emissions
- 500 mg / Nm3

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

Power generation
- CHP and Trigeneration
- Waste to power

Great flexibility for running with fuels as propane.
- Integrated propietary GCS-E engine and GCS-G genset control systems
- High flexibility through modularity

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
### Applications

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

### References

- Sokółowe Podlasie - Poland
- Supply two genset SGE-42HM
- Power output - 2 MWe

### Customer

SOKÓŁÓW SA

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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

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### Best-in-class electrical efficiencies in Natural gas H Series:

- 24HM: 500 kW; 56HM: 1,300 kW

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### 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.

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<table>
<thead>
<tr>
<th>Power generation</th>
<th>CHP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power output</td>
<td>502 to 1,315 kW</td>
</tr>
<tr>
<td>Fuel</td>
<td>Natural gas, biogas</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 and 60 Hz</td>
</tr>
<tr>
<td>Tapered</td>
<td>1,200 to 1,500 rpm</td>
</tr>
<tr>
<td>Electric efficiency</td>
<td>88 - 91 %</td>
</tr>
<tr>
<td>Thermal efficiency</td>
<td>47 - 49 %</td>
</tr>
<tr>
<td>Total efficiency</td>
<td>89 - 91 %</td>
</tr>
<tr>
<td>NOx emissions</td>
<td>500 mg / Nm³</td>
</tr>
</tbody>
</table>

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- Proven design
- High thermal efficiency
- Integrated proprietary GCS-E engine and GCS-8 genset control systems

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![SGE-HM genset](image1)

![SGE-42HM containerized genset](image2)
HM: Key features

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

Lubrication system
- Oil mist wett system
- 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
- One high-efficiency turbocharger, water cooled
- Three-stage, oil 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

- Two-stage, oil engine integrated, charge cooler
- Two intake manifolds outside the engine
- 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
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

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

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

<table>
<thead>
<tr>
<th>Power generation</th>
<th>CHP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power output</td>
<td>2,012 kW</td>
</tr>
<tr>
<td>Fuel</td>
<td>Natural gas</td>
</tr>
<tr>
<td>Engine speed</td>
<td>1,200 / 1,500 rpm</td>
</tr>
<tr>
<td>Electric efficiency</td>
<td>45.4 %</td>
</tr>
<tr>
<td>Thermal efficiency</td>
<td>41 %</td>
</tr>
<tr>
<td>Total efficiency</td>
<td>86.4 %</td>
</tr>
<tr>
<td>NOx emissions</td>
<td>500 mg / Nm³ NOx</td>
</tr>
</tbody>
</table>
Note 1) Also available at 230 mg/Nm³ NOx.

Physical dimensions

- Approximate weight: 15,111 kg
- Length: 6.4 m
- Width: 2.0 m
- Height: 2.3 m

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

- Miller cycle
- High efficiency turbocharger
- Dry exhaust manifold
- Electronically carbureted
- New piston design for best performance
- Two circuit cooling system – Main circuit
- Auxiliary cooling variable temperature new concept
- Oil cooler in main circuit
- Direct Drive for 60 Hz (1,200 rpm) option
- 90,000 hours for major overhaul
- Double stage intercooler
- Reduced oil consumption
- Emissions control

Supplied as a stand-alone engine, genset or in a fully containerized unit

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, air-cooled, charge cooler
- Dry intake manifold inside the engine
- Dry exhaust manifold, 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

EM: Key features
The container is comprised of following individual areas:

**Engine room** - contains the genset, cooling pumps, thermostatic valves and daily oil tank. Also a heat water recovery skid can be installed if necessary.

**Cabinet room** - contains the electrical, control and power panels.

**Aircooler room** - contains the exhaust silencer, chimney and if necessary the exhaust heat recovery skid.

**Top mounted area** - contains the exhaust silencer, chimney and if necessary the exhaust heat recovery skid.

(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 1 m
- Down to 75 dB (A) in 1 m

**Ambient temperatures (**)**
- The container is designed for ambient temperatures of -18ºC to 35ºC with an option to reach up to 45ºC
- The container is designed for ambient temperatures of -18ºC to 45ºC
- The container is designed for ambient temperatures of -10ºC to 29.5ºC
- 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: 9,144 mm; W: 2,438 mm; Height: 2,896 mm
- L: 6,000 mm; W: 2,000 mm; Height: 3,100 mm

**Applications by engine models**
- Power generation: S Series including 56SLT30, H Series Line engine
- Cogeneration: All engines except for V engines, all the S Series and 56 lite engines (SL, SM)
- Fast start: 56SL T30 engine
- Power Generators, Cogenerators for all L engines
- Power generation: H Series except for 24 HM, 1M gas propan
- Cogeneration: H Series except for 24HM, 56 gas propan and 56 lite engines
- Fast start: 56SL T30 engine
- Power Generators, Cogenerators for all L engines
- Fast start: 56SL T30 engine
- Power Generators, Cogenerators for all L engines

(For other configurations please contact the Siemens Engine Business)
## Performance data overview

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Speed (rpm)</th>
<th>Fuel type</th>
<th>Power (kW)</th>
<th>Efficiency (%)</th>
<th>Genset Dimensions (L x W x H) (m)</th>
<th>Genset Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGE - 18 SL</td>
<td>1,200</td>
<td>Natural gas</td>
<td>322</td>
<td>36.1</td>
<td>261 x 0.95 x 1.46</td>
<td>3,500</td>
</tr>
<tr>
<td>SGE - 24 SL</td>
<td>1,500</td>
<td>Natural gas</td>
<td>404</td>
<td>38.5</td>
<td>242 x 1.16 x 2.73</td>
<td>4,200</td>
</tr>
<tr>
<td>SGE - 36 SL</td>
<td>1,800</td>
<td>Natural gas</td>
<td>484</td>
<td>40.0</td>
<td>383 x 1.62 x 2.19</td>
<td>5,800</td>
</tr>
<tr>
<td>SGE - 56 SL</td>
<td>2,100</td>
<td>Natural gas</td>
<td>564</td>
<td>41.0</td>
<td>412 x 2.08 x 2.73</td>
<td>8,200</td>
</tr>
<tr>
<td>SGE - 18 SL</td>
<td>1,500</td>
<td>Biogas</td>
<td>501</td>
<td>38.4</td>
<td>340 x 1.59 x 2.47</td>
<td>6,200</td>
</tr>
<tr>
<td>SGE - 24 SL</td>
<td>1,800</td>
<td>Biogas</td>
<td>499</td>
<td>39.0</td>
<td>359 x 1.74 x 2.60</td>
<td>7,100</td>
</tr>
<tr>
<td>SGE - 36 SL</td>
<td>2,100</td>
<td>Biogas</td>
<td>501</td>
<td>40.2</td>
<td>345 x 1.84 x 2.93</td>
<td>8,200</td>
</tr>
<tr>
<td>SGE - 36 SL</td>
<td>2,400</td>
<td>Biogas</td>
<td>501</td>
<td>42.7</td>
<td>327 x 1.91 x 2.96</td>
<td>8,200</td>
</tr>
<tr>
<td>SGE - 56 SL</td>
<td>2,700</td>
<td>Biogas</td>
<td>501</td>
<td>45.4</td>
<td>295 x 2.11 x 3.34</td>
<td>9,700</td>
</tr>
<tr>
<td>SGE - 56 SL</td>
<td>3,000</td>
<td>Biogas</td>
<td>501</td>
<td>47.6</td>
<td>257 x 2.47 x 3.97</td>
<td>11,500</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. For other type of gases, please contact Siemens Engines.
4. Efficiency calculated considering the exhaust gases.
5. The power, dimensions and weights are average values with a tolerance of +/-5%.
6. Note: Engine performance data is to ISO 3046/1, 25ºC and 500 meter above sea level.

## Engine Model Speed (rpm) Fuel type Thermal Power (kW) Efficiency (%) Global Eff. (%) Engine Dimensions (L x W x H) (m) Engine Dry Weight (kg) Genset Dimensions (L x W x H) (m) Genset Dry Weight (kg)

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Speed (rpm)</th>
<th>Fuel type</th>
<th>Thermal Power (kW)</th>
<th>Efficiency (%)</th>
<th>Global Eff. (%)</th>
<th>Engine Dimensions (L x W x H) (m)</th>
<th>Engine Dry Weight (kg)</th>
<th>Genset Dimensions (L x W x H) (m)</th>
<th>Genset Dry Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,200</td>
<td>Natural gas</td>
<td>322</td>
<td>36.1</td>
<td>261 x 0.95 x 1.46</td>
<td>3,500</td>
<td>3.66 x 1.27 x 1.31</td>
<td>4,940</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,500</td>
<td>Natural gas</td>
<td>404</td>
<td>38.5</td>
<td>242 x 1.16 x 2.73</td>
<td>4,200</td>
<td>3.83 x 1.62 x 2.19</td>
<td>7,300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,800</td>
<td>Natural gas</td>
<td>484</td>
<td>40.0</td>
<td>383 x 1.62 x 2.19</td>
<td>5,800</td>
<td>4.00 x 1.62 x 2.19</td>
<td>10,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,100</td>
<td>Natural gas</td>
<td>564</td>
<td>41.0</td>
<td>412 x 2.08 x 2.73</td>
<td>8,200</td>
<td>4.18 x 1.91 x 2.73</td>
<td>13,200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,400</td>
<td>Biogas</td>
<td>501</td>
<td>38.4</td>
<td>340 x 1.59 x 2.47</td>
<td>6,200</td>
<td>4.40 x 2.04 x 2.93</td>
<td>9,700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,700</td>
<td>Biogas</td>
<td>501</td>
<td>40.2</td>
<td>359 x 1.74 x 2.60</td>
<td>7,100</td>
<td>4.52 x 2.17 x 3.57</td>
<td>12,200</td>
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<td></td>
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<tr>
<td>3,000</td>
<td>Biogas</td>
<td>501</td>
<td>42.7</td>
<td>327 x 1.91 x 2.96</td>
<td>8,200</td>
<td>4.65 x 2.47 x 3.97</td>
<td>15,300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3,300</td>
<td>Biogas</td>
<td>501</td>
<td>45.4</td>
<td>295 x 2.11 x 3.34</td>
<td>9,700</td>
<td>4.90 x 2.97 x 4.65</td>
<td>19,800</td>
<td></td>
<td></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. For other type of gases, please contact Siemens Engines.
4. Efficiency calculated considering the exhaust gases.
5. The power, dimensions and weights are average values with a tolerance of +/-5%.
6. Note: Engine performance data is to ISO 3046/1, 25ºC and 500 meter above sea level.
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Siemens Engines S.A.U
Barrio de Oikia, 44
20759 Zumaia (Gipuzkoa) Spain
PO Box 30
Tel: (Intl +34) 943 86 52 00
Fax: (Intl +34) 943 86 52 10
E–mail: Engines.pgdr.energy@siemens.com

For more information, please contact
our Siemens Customer Support Center.
Phone: +49 180 524 70 00
Fax: +49 180 524 24 71
(Charges depending on provider)
E–mail: support.energy@siemens.com
www.siemens.com/gasengines

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requested performance features are binding only when they
are expressly agreed upon in the concluded contract.